**GOLDEN QUEEN MINING COMPANY, INC.** 

# **SOLEDAD MOUNTAIN PROJECT**

MOJAVE, KERN COUNTY, CALIFORNIA

DRAFT
ENVIRONMENTAL IMPACT REPORT /
ENVIRONMENTAL IMPACT STATEMENT

VOLUME 4
(Appendices IV through VII)

**MAY 1997** 



COUNTY OF KERN
PLANNING DEPARTMENT
BAKERSFIELD, CALIFORNIA



BUREAU OF LAND MANAGEMENT RIDGECREST RESOURCE AREA RIDGECREST, CALIFORNIA



# GOLDEN QUEEN MINING COMPANY, INC.

MINERAL RESOURCE EVALUATION
OF ALTERNATIVE PROJECT SITES
SOLEDAD MOUNTAIN PROJECT
MOJAVE, CALIFORNIA

#### Submitted to:

Golden Queen Mining Company, Inc. Post Office Box 820 Mojave, California 93502-0820

# Submitted by:

WZI Inc. 4700 Stockdale Highway, Suite 120 Bakersfield, California 93309

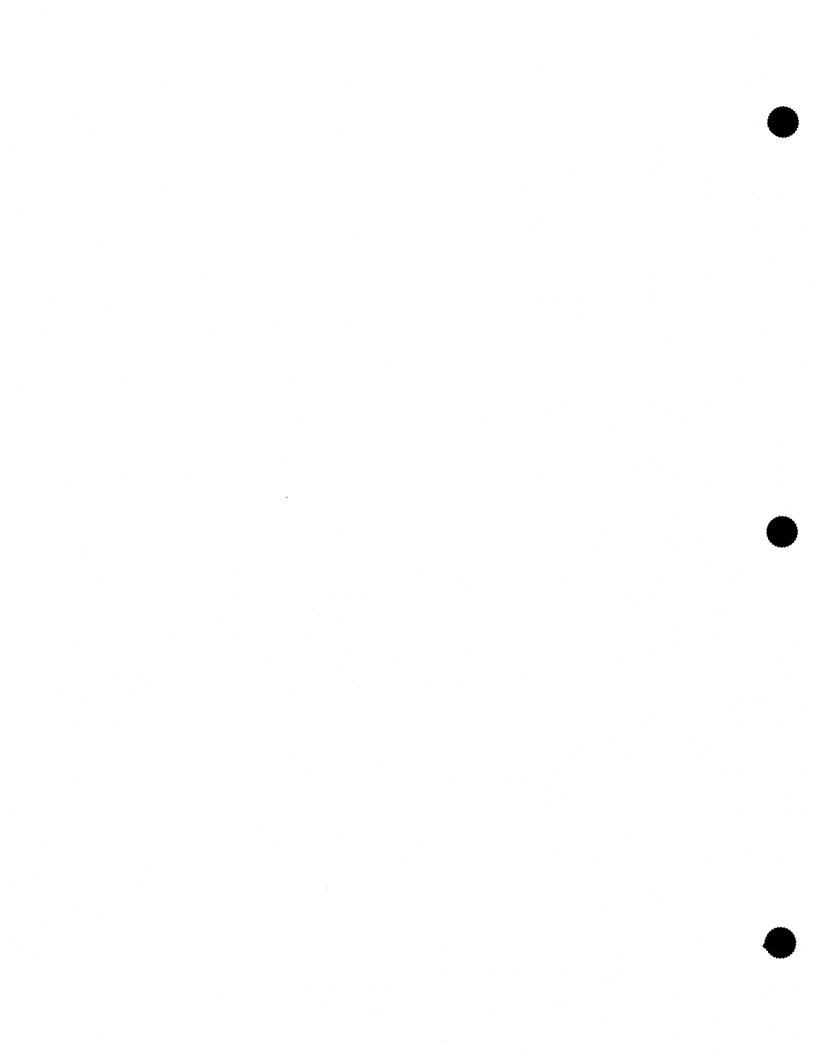
March, 1997

Stephen G. Muir

Certified Engineering Geologist #1224

Expiration Date 06/30/97

07330010.285



# TABLE OF CONTENTS

				<u>Page</u>
1.0	EXEC	UTIVE SUMMAR	XY	1
2.0	INTRO 2.1 2.2 2.3 2.4	Project Backgro Area of Investig Database Utilize	und	3 5
3.0	INVES 3.1 3.2	Geology and Go Gold Mining Dis 3.2.1 Sierra No. 3.2.1.1 3.2.1.2 3.2.1.3 3.2.1.6 3.2.1.7 3.2.1.8 3.2.1.9 3.2.1.10 3.2.1.11 3.2.1.12 3.3.2 Basin an 3.2.2.1 3.2.2.2 3.2.2.4 3.2.2.5 3.2.2.6 3.2.3.1 3.2.3.2 3.2.3.1 3.2.3.2 3.2.3.3 3.2.3.3 3.2.3.4 3.2.3.5 3.2.3.6 3.2.3.7 3.2.3.8 3.2.3.9 3.2.3.9	CEDURES Did Mineralization at the Soledad Mountain Project stricts in Area of Investigation Evada Geomorphic Province Clear Creek Mining District Cove Mining District Erskine Creek District Greenhorn Mountains District Jawbone Canyon District Kern River District Keyesville District Long Tom District Loraine District Piute Mountains District Tehachapi District White River Mining District ad Range Province Mining Districts Argus District El Paso Mountains District Rademacher District Slate Range District Spangler District Desert Province Mining Districts Alvord District Coolgardie District Emerson Lake District Fremont Peak District Grapevine District Kramer Hills District Mojave-Rosamond District Oro Grande District Randsburg District Randsburg District	6 10 12 14 15 16 17 18 20 21 22 25 26 27 28 29 30 31 32 34 35 36 36 36 36 36 36

	3.3 3.4	3.2.4       Transverse Range Province Mining Districts       47         3.2.4.1       Acton District       48         3.2.4.2       Azusa-Tujunga District       49         3.2.4.3       Baldwin Lake District       50         3.2.4.4       Black Hawk District       51         3.2.4.5       Frazier Mountain District       52         3.2.4.6       Holcomb Valley District       53         3.2.4.7       Lytle Creek District       55         3.2.4.8       Mount Baldy District       56         3.2.4.9       Mount Gleason District       58         3.2.4.10       Neenach District       59         3.2.4.11       Piru District       60         3.2.4.12       Saugus District       61         Land Status Review of Area of Investigation       62         Alternative Project Site Economic Viability Criteria       62	3901235639012		
4.0	CON	CLUSIONS 63	}		
5.0	REFE	RENCES 64	ļ		
		<u>EXHIBITS</u>			
EXHI	BIT 1	Regional Location Map			
EXHIBIT 2		Map of Geologic Structural Elements, Mining Districts and Public Land Status			
		<u>TABLES</u>			
TABLE 1		Tabulation of Significant Dates in History of Gold Mining in California			
TARIF 2		Tabulation of Mining District Data			

#### 1.0 EXECUTIVE SUMMARY

WZI Inc. (WZI) conducted a Mineral Resource Evaluation of Alternative Project Sites for the Golden Queen Mining Company, Inc. (Golden Queen) Soledad Mountain Project in eastern Kern County, California. The principal objective of this investigation was to determine if viable alternative project sites were present within a distance of 100 miles of the proposed Soledad Mountain Project.

A review of the geology, gold mineralization, and proposed mine development of the Soledad Mountain Project was conducted. Alternative project siting criteria developed from review of the Soledad Mountain Project geological and mineralization conditions included the following: (1) proximity to known past gold producing districts; (2) presence of potential ore-body host rock that consists of fractured Cretaceous granitic or Tertiary volcanic rock; (3) proximity to area(s) where a potential ore reserve or resource base of 40 to 50 million tons of gold bearing ore can be developed with grades of 0.01 to 0.05 oz/ton with stripping ratios of overburden to ore below 8:1 and gold recoverable with heap-leaching production methods; and (4) proximity to established utility and infrastructure support.

Database review of the regional geology was accomplished by review of existing surface geologic and geophysical maps from both published and unpublished sources. Mining districts with past gold production were reviewed from published literature and the individual districts described with respect to known geologic and gold mineralization trends that are similar to those at the proposed Soledad Mountain Project. Favorable areas where potential gold deposits similar to that of the Soledad Mountain Project were identified. A review of known exploration activities by private companies that have occurred during the past 10 years within the favorable areas was conducted by interviewing active and past active operators. Land status of the area of investigation was identified using existing federal and state maps that depict restricted areas where mineral development is prohibited. In addition, recent legislation by the U.S. Congress established

the California Desert Protection Act, by which a large portion of the California desert area has been withdrawn from mineral exploration and/or production.

# The investigation concluded:

- Forty mining districts were found to exist within the area of investigation of the alternative project sites where gold mineralization in commercial quantities was determined to have existed;
- A total of 14 of the alternate project site mining districts evaluated are located either within or immediately adjacent to state of California or federal lands that have been designated as Primitive or Wilderness Areas and are not available for mineral exploration or development;
- An additional three sites are located within or immediately adjacent to federal military lands and are not available for mineral exploration or development;
- Alternate project sites that represent the best potential alternative sites are: (1)
  the operating Yellow Aster Mine owned by Glamis Gold Ltd. located in Kern and
  San Bernardino Counties and within the Randsburg District; (2) the Zenda Mine
  Project owned by Claim Staker Resources, Inc. located in Kern County and within
  the Loraine District; and (3) the Big Horn Mine Project, owned by Siskon Gold,
  Inc., located in Los Angeles County and within the Mount Baldy District.

The three alternate sites represent the best potential alternate project site options available to the Soledad Mountain Project within the area of investigation. These three sites have reported potential ore reserves of less than 25 percent of the projected ore resources of the Golden Queen Soledad Mountain Project (2.3 million ounces of gold equivalent). In addition, in each of these sites, a mining company has already established controlling interest in the identified mining properties.

#### 2.0 INTRODUCTION

# 2.1 Project Background

Golden Queen Mining Company, Inc., has proposed the development of the Soledad Mountain Project. The proposed project consists of an open pit precious metals (gold and silver) mining and heap leach processing facility to be developed at Soledad Mountain, approximately five miles southwest of the unincorporated town of Mojave in Kern County, California (Exhibit 1).

The project area consists of approximately 1,600 acres, of which 1,165 acres are privately owned land and 435 acres are unpatented mining claims on public lands administered by the U.S. Bureau of Land Management, Ridgecrest Resource Area Office of the California Desert District (BLM). The Kern County Planning Department is the lead agency for compliance with the California Environmental Quality Act (CEQA) and will oversee Golden Queen's implementation of and compliance with the Surface Mining and Reclamation Act of 1975 (SMARA), which is applicable to all mining operations within the State of California. BLM is the lead agency for compliance with the National Environmental Policy Act (NEPA) and will oversee compliance with the standards and procedures in the BLM regulations for surface mining of public land under the general mining law.

The project is located within an unincorporated area of eastern Kern County and is on and around Soledad Mountain, west of State Route 14 and south of Silver Queen Road. The project area includes portions of Sections 5, 6, 7 and 8 in Township 10 North, Range 12 West and Sections 1 and 12 in Township 10 North, Range 13 West, San Bernardino Base and Meridian (Exhibit 1).

The objective of the Soledad Mountain Project is to develop an open pit precious metals (gold and silver) mine and heap leach processing operation with the potential for the production of aggregate and construction materials. Up to 60 million tons of ore and 230 million tons of overburden materials will be mined. The anticipated life of the project is up

to 15 years with employment expected for approximately 230 people. Processing operations will continue for approximately two years after the cessation of mining, at which time the project will begin closure and reclamation.

The closest electrical power lines that are capable of providing power requirements to the Soledad Mountain Project are located at the northeast corner of the project site. A new substation will be constructed on the project site with overhead and underground distribution network to serve the various operations on the project site.

The Soledad Mountain Project is estimated to require water at the average rate of 750 gallons per minute. This water will be supplied from groundwater that will be pumped from three water supply wells. This water will be used for mining and leaching operations and dust control.

Project operations will be followed by closure and reclamation of the site. The objectives of reclamation are: (1) to assure that adverse environmental effects are prevented or minimized and that mined lands are reclaimed to a level consistent with current use; (2) to encourage the production and conservation of minerals while giving consideration to values relating to recreation, watershed, wildlife, range and forage, and aesthetic enjoyment; and (3) to assure that residual hazards to the public health and safety are eliminated.

A total of 930 acres will be disturbed by the project, approximately 215 of which have been disturbed as a result of prior activities on the site. Except for the open pit mine, which covers 265 acres, and 20 acres of process area highwall and side slope, all disturbed acreage will be subject to reclamation and/or stabilization processes.

As part of the CEQA requirements for alternative locations, WZI conducted an Alternative Site Location Investigation. As a consequence, WZI staff reviewed regional geological and mining data to determine the possible locations for an alternative project site.

# 2.2 Area of Investigation

The area of investigation for data collection of the alternative project site is depicted on Exhibit 2. All geological and mining data publicly available was reviewed to a distance of 75 or 100 miles from the proposed Soledad Project location near Mojave. The investigation also included evaluation of alternative sites in mining districts located in portions of Los Angeles, Ventura, Inyo, San Bernardino, Riverside and Kern Counties.

# 2.3 Database Utilized

The database utilized to conduct the investigation included:

- All publicly accessible and pertinent geological and geophysical data for this
  portion of California. U.S. Geological Survey, U.S. Bureau of Land Management,
  U.S. Forest Service, U.S. Bureau of Mines and California Division of Mines and
  Geology reports and maps were reviewed;
- Proprietary geological and geophysical data owned by individuals and companies that was made available to WZI staff to conduct the investigation; and
- Discussions with active and previously active mineral exploration company personnel familiar with the geology and gold deposits of the area of investigation was also conducted.

# 2.4 Limitations

WZI has prepared this investigation in accordance with the accepted standard of care which exists in California at the time the investigation was conducted. It should be recognized that the evaluation of published and unpublished technical reports and data from which conclusions of this investigation were based, were accepted as being technically correct.

# 3.0 INVESTIGATION PROCEDURES

# 3.1 Geology and Gold Mineralization at the Soledad Mountain Project

# Regional Geological Background

The tectonic history of the western United States is complex, with subduction-related orogenic events occurring from the Late Cretaceous Period (74.5 million years ago) to the middle Miocene time (16 million years ago) (Mabey and others, 1978). Principal magmatic arcs present in the area of investigation include the Sierra Nevada Mountain Range and the San Gabriel- San Bernardino Mountain Ranges (Exhibit 2). These ranges are relatively narrow, with well-defined zones of calc-alkaline volcanic and plutonic activity that was inferred to have occurred above subduction zones. The deposits of base and precious metals within the area of investigation appear to be closely associated with these orogenic events.

A possible source of the Tertiary-age calc-alkaline volcanic rocks at Soledad Mountain is the partial melting of oceanic and crustal material as it descended into the subduction zone (Coney, 1978). The fracture pattern within the deep crystalline basement rock is inferred by regional magnetic and gravity data (Mabey and others, 1978). These fractures may have developed in response to easterly-directed compressional forces related to subduction of the oceanic plate and may have acted as preferred pathways above which subsequent volcanic vents or centers occurred.

Miocene volcanic flows and volcaniclastic sediments at Soledad Mountain rest unconformably on Late Cretaceous quartz monzonite of the Sierra Nevada batholith (Jennings, 1977).

# Geology of the Soledad Mountain Project

Soledad Mountain is a moderately eroded, complex-shaped silicic volcanic center that is postulated to have formed during middle to late Miocene time (16.9 to 21.5 million years) (Troxel and Morton, 1962; Perez, 1978). Soledad Mountain can be interpreted as being the remnant portion of a caldera or irregular-shaped volcanic center. Volcanic rock composed of felsic flows, tuffs, and breccias with rock types ranging in composition from quartz latite to rhyolite are present in the Soledad Mountain Project area (Dibblee, 1967).

The oldest rocks at Soledad Mountain are the Late Cretaceous quartz monzonite. Overlying the quartz monzonite are the Tertiary volcanics. The oldest Tertiary volcanic unit is the early Miocene age quartz latite flows which represent the oldest eruptive sequence. These flows are postulated to have originated from at least three separate vent centers and form a broad platform that underlies a large portion of the Soledad Mountain and immediate surrounding area (Perez, 1978).

Overlying the quartz latite flows is a middle unit comprised of pyroclastic units. This middle pyroclastic flow unit is a thick, near-vent accumulation of coarse pyroclastic debris, thin bedded distal airfall tuff, and pyroclastic flows that rests on both the underlying quartz latite flows and quartz monzonite.

Overlying the quartz latite flows and the middle pyroclastic units is a sequence of flow-banded rhyolite. This flow-banded rhyolite is inferred to have had a single vent source. The rhyolite is restricted mainly to outcrops along the northern edge of the complex.

Rocks of the upper pyroclastic unit (middle Miocene) lie unconformably on the flow-banded rhyolite. This unit represents a near-vent accumulation of interbedded sequences of poorly sorted chaotic breccias and moderately sorted layers of coarse ash and lapilli tuffs.

The youngest and most widespread of the volcanic units is the porphyritic rhyolite. The largest exposure of this unit is present west and southeast of the Soledad Mountain

summit, where it forms three moderately eroded and coalescing lava domes. This unit was emplaced through, and locally overlies, all other volcanic units of the complex.

The other gold-producing mines located in the district have similar lithologic and volcanogenic characteristics to those of Soledad Mountain (Clark, 1970). Common features include: epithermal hot spring-style of mineralization; host rocks consisting of calc-alkaline volcanics; and structurally controlled alteration and mineralization.

The Standard Hill Mine is located northeast of Soledad Mountain. The geology at Standard Hill Mine consists of high-angle faults that contain quartz veins that cross-cut quartz monzonite and quartz latite volcanics (Gardner, 1954). The veins strike north to northwest with shallow dip angles to the east and northeast, respectively.

The Tropico Mine is located approximately seven miles to the south of Soledad Mountain. The geology at the Tropico Mine has quartz monzonite that is overlain by quartz latite, flow-banded rhyolites and rhyolite porphyry similar to the volcanics of the Soledad Mountain (Gardner, 1954). The gold-bearing veins at the Tropico Mine strike east-west and dip 65 to 70 degrees to the south. Quartz veins fill pre-mineral faults, with movement continuing during and after mineralization (Clark, 1970; Clark, 1980).

The Cactus Mine, located approximately five miles west of Soledad Mountain consists of quartz latite to rhyolite flows resting unconformably on quartz monzonite. The strike pattern of the veins varies from southeast to northeast. Mineralization is associated with quartz-filled faults, fault breccia and zones of solidification and argillization of the wall rock (Clark, 1970).

# Gold Mineralization

The gold mines within the Mojave-Rosamond mining district appear to line the rim of a collapsed volcanic center. The center of the volcanic center is postulated to have been located southeast of Soledad Mountain, north of the Tropico Mine, and southeast of the

Cactus Mine. Volcanism waned approximately 16 million years ago at Soledad Mountain and allowed meteoric waters to flow back into the volcanic complex and mix with upward migrating magmatic fluids. Magma chamber(s) at depth are inferred to have supplied a continuing heat source and migrating fluids at depth formed geothermal convection cells with cooler, near-surface meteoric water. Precious metal-bearing solutions probably migrated upward along the pre-existing fault and fracture surfaces until physical and chemical changes encountered near the ground surface caused precipitation of metals into the host rocks (Berger and Eimon, 1981; Buchanan, 1981).

Gold mineralization has occurred at the Soledad Mountain area as a series of epithermal veins, filling faults and shear zones (Perez, 1978). A series of these veins are present at Soledad Mountain and are exposed at the surface within a northwest-trending belt approximately 4,000 feet wide and 6,500 feet long. Vein widths vary from three feet to 50 feet and are consistent along strike and down dip. Some of the veins have been mined to a vertical depth of 1,000 feet below ground surface.

The lateral extent of mineralization of the volcanic units at Soledad Mountain is variable (Perez, 1978). Mineralization of the volcanic flow units of quartz latite, flow-banded rhyolite and porphyritic rhyolite is reported to be generally confined to faults and fault breccias and shows a weak potential for mineralization into the wall rock. Where mineralized faults and veins cross-cut the middle and upper pyroclastic units, a wider halo of mineralization into the host rock occurs. This halo indicates a possible leaking of hydrothermal solution into the more permeable and porous tuffaceous units of the Soledad Mountain volcanic complex.

Published mining production records indicate the Mojave-Rosamond District has produced approximately 1,046,000 ounces of gold or gold equivalent from over two dozen mines (Clark, 1970).

The largest known producers in the Mojave-Rosamond District included:

Mine Gold Produced

Golden Queen: 483,792 ounces

Cactus Gold: 241,896 ounces

Standard Group: 169,327 ounces

Tropico: 114,000 ounces

Much of the past gold produced at the Mojave-Rosamond District was from underground mines that typically had gold ore concentrations that ranged from 0.25 to 0.5 oz/ton (Clark, 1970). During the 1980's, heap leach projects were started by several mining companies to rework old mine tailings or to conduct open-pit mining operations. These operations were conducted over some of the older underground mines and are similar to many projects across the western United States (Bonham, 1981; Silberman, 1982). These projects included the Standard Hill Project conducted by Billiton Minerals, USA and the Cactus Gold Project conducted by Cactus Gold Mining Company.

Numerous geological and geochemical data were utilized by Golden Queen staff to construct cross-section diagrams of the Soledad Mountain Project. These data included geochemical analysis of drill hole, subsurface workings, and surface rock samples. These data indicate that approximately 60 to 70 million tons of ore with a gold-equivalent concentration of 0.030 oz/ton and a cut-off grade of 0.008 oz/ton remain as a proven reserve and resource base for gold at the Soledad Mountain Project. With a heap leach recovery of 80 percent of mined ore placed on the heap leach pad, a total of approximately 1.45 million ounces of gold are estimated to be recoverable at the Soledad Mountain Project.

# 3.2 Gold Mining Districts in Area of Investigation

Published reports and publicly available literature describing the known gold districts that are present within the Area of Investigation were reviewed. The geology, mineralization

systems, known past producing mines and their gold production, and land status were evaluated for each of the districts investigated. A discussion of each district was made that outlined known recent exploration activity.

Each gold mining district is plotted on Exhibit 2. There are four distinct geomorphic provinces within the area of investigation: Sierra Nevada Province; Basin and Range Province; Mojave Desert Province; and Transverse Range Province. Each of these provinces has different geologic structure elements and stratigraphy. Each of the provinces has mineralized areas within it where base and precious metals have been produced. A tabulation of significant historical events of gold mining in California is presented as Table 1.

Production records for the mining districts are generally incomplete or nonexistent. Many of the older references would record only the dollar amount of gold produced and not volume, which would have been reported in ounces. WZI staff utilized the old price standard for an ounce of gold of \$20.67/ounce to convert the reported dollar amount of production to ounces for production reported until 1932. Between 1932 and 1968, the conversion price of gold was estimated to be \$35.00/ounce. No price conversion was required after 1968 for reported gold production because most production was reported in ounces.

Many of the mining districts within the area of investigation were indicated to have produced gold from lode or placer mines but had no dollar amounts or volumes of gold reported. Where no specific gold production was identified, WZI staff assigned an inferred production base for volume of gold produced in ounces. This inference of gold produced from these districts is based on geological similarities and known gold production from other districts with similar geology and mineralization. WZI staff also estimated remaining reserve or resource potential available for several of the mining districts where past exploratory drilling data was made available for review.

A brief summary of each mining district is presented within Table 2. The mines within the four provinces are described below:

# 3.2.1 Sierra Nevada Geomorphic Province

The Sierra Nevada mountain range is the main source of the state of California past gold production and contains the greatest number of small-size mining districts of all the provinces. The main rock type of the Sierra Nevada is a large batholith of Mesozoic granodiorite and related rocks that have intruded into metamorphic rocks of Paleozoic and Mesozoic age (Jennings, 1977). The large batholith is approximately 400 miles long in the north-south dimension and 85 miles wide in the east-west dimension. The Mariposa Formation (Upper Jurassic) and the Kernville Series (Jurassic or older) of the southern Sierra Nevada contain slates, schists, phyllites, and quartzites which are present in many of the mining districts (Clark, 1970).

In addition to the main Sierra Nevada granodiorite batholith, there are numerous smaller intrusions of basic and ultra-basic rocks, many of which are serpentinized (Jennings, 1977). The serpentine bodies apparently have been structurally important in the localization of gold bearing deposits in some of the mining districts and often are parallel to or occur within the belts of gold mineralization (Clark, 1970). Also, there are numerous dioritic and aplitic dikes that are closely associated with gold bearing veins.

# 3.2.1.1 Clear Creek Mining District (Kern County, Exhibit 2, Location #1)

# Location and History

The Clear Creek or Havilah District is located in east-central Kern County, about 26 miles east-northeast of Bakersfield and five miles south of Bodfish. It is located in an large area that includes Red Mountain and Walker Basin. This district is also considered a tungsten district (Dibblee and Chesterman, 1958).

Gold was discovered in Clear Creek in 1863 or 1864 and by 1865 the town of Havilah was established (Brown, 1916). Mining activity in the area declined during the 1880's, but has been reported to have been intermittently active for many years (Tucker and Sampson, 1933).

# Geology

The Clear Creek District and surrounding area is underlain by Mesozoic age quartz diorite with roof pendants of Paleozoic metasediments present in the north and south portions of the district (Jennings, 1977). An intrusive body of gabbro is present to the northeast. The gold deposits are reported to be mostly confined to the quartz diorite intrusive body located west of Havilah and in the Walker Basin (Troxel and Morton, 1962). These ore bodies reportedly consist of quartz veins up to six feet thick and contain free gold and varying amounts of sulfides (Tucker and Sampson, 1933).

# Mines and Gold Production

Mines located in the Clear Creek District include: Friday; Jackpot; Joe Walker (\$600,000 or more of gold produced); Porter; Rand group (\$125,000 of reported gold production); Rochfort; Southern Cross; Washington. It is estimated that approximately 35,000 ounces of gold were produced from this district.

# Recent Exploration Activity

No recent exploration activity is known to have occurred. This area is within lands administered by the U.S. Forest Service and may have significant mineral exploration and/or development restrictions.

# 3.2.1.2 Cove Mining District (Kern County, Exhibit 2, Location #2)

# Location and History

The Cove District is located in the northeastern portion of Kern County, between the towns of Kernville and Isabella, on the west side of the Lake Isabella Reservoir. The upper Kern River here was reportedly mined for gold in placer occurrences during the 1850's (Miller and Webb, 1940). The Big Blue vein was discovered in 1860 (Crawford, 1893), and a significant period of mining activity followed during the 1870's and early 1880's. The mines were worked intermittently from the 1880's through the 1930's with the Big Blue group reported as having been operated on a large scale from 1934 until 1943 (Troxel and Morton, 1962). Since 1943 there has been only minor activity reported in the district.

# Geology

The Cove Mining District is underlain primarily by Mesozoic granodiorite (Jennings, 1977). East and south of the district outcrops of schist, phylite, quartzite and marble of the pre-Cretaceous Kernville Series are present. Aplite dikes are reportedly often associated with the gold-bearing veins (Clark, 1970).

The ore deposits consist of extensive vein systems, with some being reported as much as 150 feet wide. These vein systems are reported to occur within shear zones in the granodiorite (Prout, 1940). The ore reportedly consists of quartz with finely disseminated free gold, arsenopyrite, pyrite, chalcopyrite and galena. The milling ore grade was reported as averaging 0.1 to 0.33 oz/ton of gold with some localized higher grade streaks (Troxel and Morton, 1962). The veins have been reportedly mined to depths of about 500 feet. There are two main vein systems: the Big Blue-Sumner and the Lady Belle groups.

The mines in the Cove Mining District included the Big Blue Group, the Big Blue-Sumner Group and the Lady Belle Group. The district has an estimated past gold production valued at \$8 million. It is estimated that approximately 387,034 ounces of gold were produced from this district.

#### Recent Exploration Activity

No recent exploration activity is known to have occurred. This area is within lands administered by the U.S. Forest Service and may have significant mineral exploration and/or development restrictions.

3.2.1.3 Erskine Creek District (Kern County, Exhibit 2, Location #3)

# Location and History

The Erskine Creek District is located in Kern County, approximately 38 miles northeast of Bakersfield and south of Lake Isabella Reservoir. The district forms an area approximately five miles long and two miles wide and also includes the mining area known as the Pioneer District. Antimony and gold deposits were productive in the early 1890's and intermittently afterward (Tucker and Sampson, 1933).

#### Geology

Two northwest-trending roof pendants of pre-Cretaceous metamorphic rocks are surrounded by Mesozoic granitic rock in this district (Jennings, 1977). The ore deposits reportedly consist of quartz veins containing free gold and varying amounts of sulfides. Gold and varying amounts of silver, antimony, tungsten, copper and uranium have been produced from the Erskine Creek District (Troxel and Morton, 1962).

The principal sources of gold in the district has been reported to have been the Glen Olive Mine, which reportedly yielded \$500,000 of gold and the Iconoclast Mine (Tucker and Sampson, 1933). Other properties include the Golden Bell, Laurel, Valley View, Faust and King Solomon Mines (Clark, 1970). It is estimated this district has produced 24,189 ounces of gold.

# Recent Exploration Activity

No recent exploration activity is known to have occurred. This area is adjacent to lands administered by the U.S. Forest Service and may have significant mineral exploration and/or development restrictions.

3.2.1.4 Greenhorn Mountains District (Kern County, Exhibit 2, Location #4)

# Location and History

The Greenhorn Mountains District is located in Kern County about 28 miles northeast of Bakersfield. The initial reported discovery of gold was made in Greenhorn Creek in 1851 by a member of the John Fremont expedition (Brown, 1916). A gold rush soon followed and the town of Petersburg was established. Gold mining activity declined before 1890. Since 1890 there has been minor prospecting reported in the district. Most of the gold output has been from lode deposits (Brown, 1916).

# Geology

The Greenhorn Mountains District is underlain by quartz diorite (Troxel and Morton, 1962). Several roof pendants that are comprised of Mesozoic or Paleozoic age metamorphic rocks and pegmatite dikes are also present (Jennings, 1977).

The chief placer gold deposits were in Greenhorn, Fremont, Bradshaw, and Black Gulch Creeks (Brown, 1916). Numerous small, poorly-mineralized quartz veins are present in the district. Most of these quartz veins are located a few miles east of David Guard Station (Troxel and Morton, 1962). The gold is reported to be present in a free state and there is very little sulfide mineralization. An unknown volume of gold was produced from this district. Based on similar geological environments, it is estimated that approximately 1,000 to 5,000 ounces of gold was produced from the district.

# Recent Exploration Activity

No recent exploration activity is known to have occurred. This area is adjacent to lands administered by the U.S. Forest Service and may have significant mineral exploration and/or development restrictions.

3.2.1.5 Jawbone Canyon District (Kern County, Exhibit 2, Location #5)

# Location and History

The Jawbone Canyon district encompasses an area between Emerald Mountain and the El Paso Mountains, north of the Garlock Fault. The district is centered about 14 miles north of the town of Mojave. Placer gold deposits were reportedly discovered in this district in approximately 1900 (Troxel and Morton, 1962). Lode gold deposits were reportedly developed at several mines including the Skyline and San Antonio during the late 1930's (Tucker and Sampson, 1940).

# Geology

The Jawbone Canyon-Butterbread Peak area is underlain by Cretaceous granitic rocks containing minor roof pendants of Mesozoic metasediments (Jennings, 1977). Tertiary

sediments and interbedded volcanic rocks unconformably overlie the granitic rocks in places. These sediments, as well as the granitic rocks, are intruded by Tertiary age rhyolite dikes and plugs that are believed to be of the same age as those in the nearby Mojave District (Miocene) (Troxel and Morton, 1962). A variety of mineral deposits occur in the district, including gold, antimony, clay and mercury. Most of the gold occurrences worked in the past consisted of west- to northwest-trending narrow, gold-bearing quartz stringers cutting the Cretaceous quartz monzonite. Many of the quartz stringers are often associated with rhyolite dikes. At the Hub Mine, however, a gold-bearing quartz vein cuts altered rhyolite on the west side of the district. In addition, some of the rhyolite bodies are widely altered to clay minerals, and cinnabar has reportedly been recognized in at least one rhyolite body (Troxel and Norton, 1962).

# Mines and Gold Produced

The mines that were reported to be in this district included: Hub, Skyline, and San Antonio. No published gold production value or volume was reported for this district. It is estimated that the total volume of gold produced from this district was 1,000 to 5,000 ounces based on similar geological environments and known past production from other mining districts.

# Recent Exploration Activity

It appears that some limited exploration for precious metals has occurred in this district in the past ten years. No announced discovery of an ore body has been made within this district.

3.2.1.6 Kern River District (Kern County, Exhibit 2, Location #6)

# Location and History

The Kern River District is located in the upper Kern River, between Bakersfield and Bodfish. This district was the scene of a rush soon after the discovery of gold at

Greenhorn Creek in 1851 (Tucker and Sampson, 1993). Not much is known about the early deposits but the majority are believed to have been worked out in a short time. Many lode-gold prospects are in the area, but the only one of any consequence is the Gem Mine near Democrat Springs.

#### Geology

The Kern River District is underlain by Mesozoic quartz diorite and associated aplitic and pegmatitic dikes, most of which trend north (Miller and Webb, 1940). Small roof pendants of pre-Cretaceous metasediments are present within the granitic rocks. Moderate foliation is common in the granitic rocks, especially near contacts with the roof pendants (Troxel and Morton, 1962).

#### Mines and Gold Produced

The most important placer mine in the Kern River Canyon District was the Greenhorn Caves Mine in Greenhorn Creek. This mine reported gold placer production valued at \$60,000 (Tucker and Sampson, 1933). The Gem Mine was a lode gold mine that was located approximately one mile southwest of Democrat Springs. Reported production from the Gem Mine was valued at \$30,000 (Tucker and Sampson, 1933).

Past gold production in the district is estimated at approximately 1,000 to 5,000 ounces, based on similar geological environments and known past production from other mining districts.

# Recent Exploration Activity

No recent exploration activity is known to have occurred.

# 3.2.1.7 Keyesville District (Kern County, Exhibit 2, Location #7)

#### Location and History

This district is in the southern Sierra Nevada in Kern County, about 32 miles northeast of Bakersfield and two miles southwest of Isabella Dam. Gold was discovered here in 1852 and for a time this was the largest community in Kern County. The chief periods of mining were the 1850's, 1860's, 1890's and 1909-15 (Tucker and Sampson, 1933). The area was reportedly prospected during the 1930's, but little has been done here since, and Keyesville has become a ghost town (Troxel and Morton, 1962).

#### Geology

The Keyesville District is underlain by Mesozoic age quartz diorite (Jennings, 1977). The gold deposits occur in a northeast-trending belt about three miles long (Tucker, 1933). The veins consist of narrow quartz stringers with fault gouge that contain free gold and small amounts of pyrite, arsenopyrite and pyrrhotite (Tucker and Sampson, 1933). There are some placer deposits, including one of possible Pleistocene age (Troxel and Morton, 1962).

#### Mines and Gold Production

The mines that have reported gold production in the district include: Bright Spot; High Grade; Homestake; Keyes (\$450,000); Keyesville; Keyesville Placer; Mammoth, (\$500,000); Mooncastle; Nephi; Nob Hill; Opportunity; Sunrise; Virginia; Will Jean. Approximately 45,960 ounces of gold were produced from this district.

# Recent Exploration Activity

No recent exploration activity is known to have occurred.

# 3.2.1.8 Long Tom District (Kern County, Exhibit 2, Location #8)

#### Location and History

The Long Tom District is located in the southern Sierra Nevada in central Kern County. The district is approximately 23 miles northeast of Bakersfield and 10 miles south of Woody. The lode occurrences of gold in the district were discovered in 1860 by prospectors looking for the source of placer gold in nearby creeks (Brown, 1916; Tucker, 1923).

#### Geology

The Long Tom District is underlain by quartz diorite with small gabbroic inclusions (Jennings, 1977). A number of fracture zones contain small, gold-bearing quartz stringers with minor amounts of sulfides (Brown, 1916). The deposits reportedly do not extend to depths of more than a few hundred feet (Troxel and Morton, 1962).

# Mines and Gold Production

The principal mine in the District was the Long Tom Mine. This mine was reported as having considerable activity during the 1880's and again from 1925 to 1939 (Troxel and Morton, 1962). The Long Tom Mine had an estimated total output of gold valued at \$800,000 to \$900,000 (Clark, 1970). Approximately 43,541 ounces of gold were produced from this district.

# Recent Exploration Activity

No recent exploration activity is known to have occurred.

# 3.2.1.9 Loraine District (Kern County, Exhibit 2, Location #9)

# Location and History

The Loraine District, also known as the Amalie District, is located in the southern Sierra Nevada in central Kern County near the vicinity of the town of Paris-Loraine. The district is about 35 miles east of Bakersfield and 12 miles north of Tehachapi and was first prospected in the 1850's (Crawford, 1894; Brown, 1916). The principal period of mining activity was from 1894 until around 1912 (Tucker and Sampson, 1933). The district was active again in the 1920's and 1930's, and there has been intermittent prospecting since.

# <u>Geology</u>

The Loraine District is underlain by a large roof pendant of slate and mica schist of the Paleozoic age Kernville Series within the rock of the Sierra Nevada batholith comprised of quartz diorite and granodiorite (Jennings, 1977). There are a number of quartz veins, ranging from one to 10 feet in thickness, which reportedly contain free gold and abundant sulfides (Tucker and Sampson, 1933). The veins reportedly occur in both the metamorphic and granitic rocks.

Milling-grade ore reportedly commonly averaged more than 0.5 oz/ton of gold and 2.0 oz/ton of silver per ton (Troxel and Morton, 1962). Several ore shoots reportedly had stope lengths of up to 300 feet, and several veins were mined to depths of 600 feet or more.

# Mines and Gold Produced

The mines located in the Loraine District included: Amalie, (\$600,000); Barbarossa; Cowboy (\$600,000); Deerhunter; Ella; Ferris; Golden Cross; Golden Peak; New Deal; Zenda, (34,000 ounces of gold or more). Approximately 92,055 ounces of gold were produced from this district.

#### Recent Exploration Activity

Exploration for precious metals has occurred in this district during the past ten years. Companies reported to have been active in the Loraine District have included: Billiton Minerals USA, Equinox Exploration and Claim Staker Resources. The Zenda Mine Project has been reportedly evaluated by Claim Staker Resources and gold ore reserve /resource estimates of approximately 920,000 tons of ore at an average grade of 0.057 oz/ton are present. This volume of ore would represent approximately 100,000 ounces of recoverable gold.

3.2.1.10 Piute Mountains District (Kern County, Exhibit 2, Location #10)

#### Location and History

The Piute Mountains are located in the southern Sierra Nevada mountain range and in the east-central portion of Kern County near Claraville, about 14 miles southeast of Bodfish. Gold was probably discovered here during the 1850's, but the principal periods of mining were 1870 to 1900 and during the early 1930's and early 1940's (Tucker and Sampson, 1933).

#### Geology

The Piute Mountains District is underlain primarily by Mesozoic granitic rocks (Jennings, 1977). In the northwest portion of the district, a roof pendant of Mesozoic metasediments crop out. Most of the gold deposits are confined to a two-mile-wide belt that extends northwest through the Claraville area in granitic rock and then north in the metamorphic rocks (Troxel and Morton, 1962). The deposits consist primarily of gold-quartz veins in shear zones. Some sulfides, in places, are reportedly present. Milling ore reportedly averaged about 0.5 oz/ton of gold (Clark, 1970).

The mines that produced gold in the Piute Mountains District included: Amy, Blue Jay, Bright Star (\$600,000), Dearborn, Donnie, French, Gold Standard, Gwynne (\$770,000), Henry Ford, Hilltop, Jeannette, Jeanette-Grant, Jerry, Little Joe, Lone Star, Mary Ellen, Retreat, Shellenberger, Simon, Surprise (Troxel and Morton, 1962). Approximately 66,279 ounces of gold have been produced from this district.

# Recent Exploration Activity

No recent exploration activity is known to have occurred.

3.2.1.11 Tehachapi District (Kern County, Exhibit 2, Location #11)

# Location and History

The Tehachapi District is located in the Tehachapi Mountains, about four miles south of Tehachapi within the east-central portion of Kern County. Most of the gold production in this district came from the Pine Tree Mine which was a lode mine. This mine was reportedly active from 1876 to 1907.

# <u>Geology</u>

The Tehachapi District is largely underlain by Cretaceous granitic rocks that are part of the southern end of the Sierra Nevada batholith. Preserved within these plutonic rocks are large roof pendants of probable Mesozoic age metasediments that are composed largely of limestones and quartzites (Jennings, 1977; Dibblee and Louke, 1970). Irregular bodies of Late Tertiary rhyolite locally intrude the granitic rocks (Troxel and Morton, 1962). The district is largely known for its production of lime and portland cement from the Paleozoic age roof pendants containing limestone. Some gold has also been produced in the district from shallow dipping, gold-bearing quartz veins cutting the granitic rocks (Clark, 1970).

#### Mines and Gold Produced

The largest gold-producing mine in the district was the Pine Tree Mine. Clark (1970) reported that over \$250,000 in gold was mined from shallow dipping (20° to 40°) quartz veins in granitic rocks from the Pine Tree Mine. Maximum width of quartz veins is reported to be about three feet, however, hanging wall and footwall of most veins are also brecciated. Before 1910, mine workings consisted of at least five adits ranging in length from 80 to about 800 feet. Several thousand feet of drifts and stoops extended from these adits. Lower adit portals have been covered by dumps from upper portals. Gold was reportedly free milling (Troxel and Morton, 1962). Approximately 12,094 ounces of gold were produced from this district.

#### Recent Exploration Activity

No recent exploration activity is known to have occurred.

3.2.1.12 White River Mining District (Kern County, Exhibit 2, Location #12)

# Location and History

The White River District is located in both southern Tulare and northern Kern Counties, approximately 25 miles southeast of Porterville. Gold was discovered here in 1853. The town was originally known as Tailholt, but the name was changed to White River in 1870 (Laizure, 1923). Mining continued until around 1906, and there has been minor activity since. The district was estimated to have yielded a total of \$750,000 worth of gold by 1914 (Tucker, 1919).

# Geology

The White River District is underlain by Mesozoic granodiorite and small intrusive bodies of gabbro and other basic rocks (Troxel and Morton, 1962). Small amounts of Paleozoic

and/or Mesozoic schist and slate along with a few limestone roof pendants are present the west (Jennings, 1977). A series of west-northwest-trending parallel quartz veins occur in shear zones in the granodiorite. The ore reportedly contained free gold and small amounts of pyrite (Troxel and Morton, 1962).

# Mines and Gold Production

The mines located in the White River District include Bald Mountain (\$200,000 to \$300,000); Eclipse No. 2; Josephine; Last Chance; and Stencil. Approximately 36,284 ounces of gold were produced from this district.

# Recent Exploration Activity

No recent exploration activity is known to have occurred.

# 3.3.2 Basin and Range Province Mining Districts

The Basin and Range Province of the Area of Investigation occupies Inyo, San Bernardino, and portions of Kern Counties. The mountain ranges in this province lie east of the Sierra Nevada Mountain Range and north of the Garlock Fault (Exhibit 2). The Basin and Range Province is a region of roughly parallel mountain ranges alternating with basins or low-areas that are controlled by fault block structures. The province is underlain by granitic, sedimentary rocks of Precambrian, Paleozoic and Mesozoic ages and in places by Cenozoic sediments and volcanic rocks (Jennings, 1977). Gold is present as epithermal deposits in silicified and brecciated zones in volcanic rocks or as mesothermal gold-quartz veins in older metamorphic or granitic rocks (Clark. 1970).

# 3.2.2.1 Argus District (Inyo County, Exhibit 2, Location #13)

# Location and History

The Argus District is located in southern Inyo County within the Argus Range about 10 miles north of Trona. This district has also been known as the Kelley or Sherman Mining District. The mines here apparently were first worked in the 1890's, although gold may have been discovered earlier (Norman and Stewart, 1951). Considerable mining activity occurred during the early 1900's and again in the 1930's, followed by intermittent prospecting and development work until the present time (Clark, 1970).

#### Geology

The Argus District is underlain by crystalline rocks that range in composition from quartz monzonite to gabbro (Jennings, 1977; Norman and Stewart, 1951). The ore deposits reportedly occur either in quartz veins or in zones consisting of cemented, silicified breccia containing jasper, quartz veinlets, calcite, and abundant iron oxide (Tucker, 1938). The gold is reportedly usually in a very fine state and sulfides are present only in some of the deposits.

#### Mines and Gold Production

Mines in the Argus District include Arondo (\$200,000); Davenport; Mohawk; Ruth (\$700,000 or more); Star of the West; and Stockwell. Approximately 43,541 ounces of gold were produced from this district.

#### Recent Exploration Activity

Recent exploration activity has occurred in the Argus District in the form of drilling by Anaconda Mining Company and Queenstake Resources, Inc. to evaluate a disseminated

ore body during the mid 1980's. No announced discovery of a commercial ore body has been made.

3.2.2.2 El Paso Mountains District (Kern County, Exhibit 2, Location #14)

# Location and History

The El Paso Mountain District is located in northeastern Kern County, approximately 10 miles northwest and north of Randsburg. A series of dry placer workings are present between the Redrock Canyon area on the southwest and the Summit area on the northeast. The district also includes the areas known as the Goler, Garlock and Searles Districts. Gold was reportedly discovered in Goler Canyon in 1893, and dry washing camps soon sprang up at Last Chance, Red Rock, Jawbone Canyon and Summit Diggings (Hulin, 1934). Mining activity reportedly declined by 1900, but a number of operations were reactivated during the depression years of the 1930's, and since World War II, there has been minor prospecting. In these dry placer deposits, the easily recoverable gold was mined at one locality for a few months to up to a year or two (Tucker and others, 1949).

#### Geology

Auriferous sands and gravels occur in benches above the present canyons and on bedrock in the washes and canyons themselves (Haley, 1923). Much of the gold appears to have been derived from the erosion and reworking of the basal conglomerate of the Ricardo formation (lower Pliocene), which is extensive in this region (Hulin, 1934). The gold particles are round and show evidence of considerable abrasion. The gold is mostly fine, although nuggets of up to several ounces have reportedly been recovered (Clark, 1970). Some narrow gold-quartz veins reportedly occur in granite and schist as lode occurrences (Troxel and Morton, 1962).

Mines in this district included the placer camps known as Last Chance; Red Rock; Jawbone Canyon; and Summit Diggings. Lode gold mines with reported production included the Garlock Mine (Troxel and Morton, 1962). No production records for gold value or volumes were reported into the public record for this district. It is estimated that approximately 1,000 to 10,000 ounces of gold were produced in this district based on geology and gold occurrences similar to other mining districts with established gold production.

# Recent Exploration Activity

Recent exploration/development activity in this district has been reportedly limited to dry placer occurrences. No announced discovery of a commercial ore body has been made.

3.2.2.4 Rademacher District (Kern County, Exhibit 2, Location #15)

# Location

The Rademacher District is located in northeastern Kern County, approximately 15 miles north of Randsburg and five miles south of Ridgecrest. The district was organized in the 1890's, and the most active period was in the early 1900's (Tucker and Sampson, 1933).

# <u>Geology</u>

The Rademacher District is underlain by Mesozoic granitic rocks containing small roof pendants of Paleozoic and/or Mesozoic metamorphic rock and is reportedly cut by numerous dikes (Jennings, 1977; Troxel and Morton, 1962). Acidic dikes are most common within the eastern portion of the district but become more basic in composition to the west (Tucker and Sampson, 1933). A number of narrow, north-trending quartz veins reportedly often cut the dikes. The ore reportedly contains free gold with varying amounts

of sulfides and manganese oxide. Milling-ore has been reported to usually average 0.5 oz/ton of gold, and the ore shoots usually are narrow with short stope lengths (Troxel and Morton, 1962).

#### Mines and Gold Production

Mines in the Rademacher District include: Apple Green; Bellflower; Broken Axle; Butte; Crown Cons.; Gold Bug; Gold Pass; Hillside; Huntington; Indian Wells Valley; Jerry; Lehigh Valley; Lost Keys; Northern View; Prize; Rademacher; Red Wing; Stardust; Star Lode; Steller group; Townsend; Vera Queens; White Star; Wildcat; and Yellow Treasure. No production records for gold value or volumes were reported in the public data reviewed for this district. Approximately 1,000 to 10,000 ounces of gold were produced in this district based on geology and gold occurrences similar to other mining districts with established gold production.

# Recent Exploration Activity

No recent exploration or development activity is known to have occurred in this district.

3.2.2.5 Slate Range District (Kern County, Exhibit 2, Location #16)

# Location and History

The Slate Range District is located in northwestern San Bernardino and southern Inyo Counties. This district has also been known as the Arondo District. Gold occurs in several places in the Slate Mountains, the principal source apparently having been the Hafford Mine (Degroot, 1890).

## Geology

The Slate Range District is underlain by Cretaceous granite and Mesozoic schist (Smith and others, 1968). The gold deposits reportedly consist of narrow quartz veins that contain small but rich gold- and silver-bearing pockets (Tucker and Sampson, 1943). In places, sulfides have been reportedly quite abundant.

## Mines and Gold Production

The principal mine in the Slate Range District was reported to have been the Hafford Mine (Tucker and Sampson, 1943). No production records for gold value or volumes were reported in the public data reviewed for this district. Approximately 1,000 to 5,000 ounces of gold were produced in this district based on geology and gold occurrences similar to other mining districts with established gold production.

## Recent Exploration Activity

No recent exploration or development activity is known to have occurred in this district.

3.2.2.6 Spangler District (Kern County, Exhibit 2, Location #17)

## Location and History

The Spangler District is located within the Spangler Hills of northwestern San Bernardino County, about 10 miles northeast of Johannesburg. Most of the reported gold production has been from the Spangler Mine, which has been intermittently prospected and developed since the 1890's (Wright and others, 1953).

### Geology

The Spangler District is underlain by Mesozoic granitic rocks (Jennings and others, 1962). A number of narrow, west-striking gold-quartz veins traverse the granitic rock. Some of the ore reportedly contained more than 1.0 oz/ton of gold (Wright and others, 1953)

### Mines and Gold Production

The mines in the Spangler District include Spangler Mine; Stephens Holding Mine; and Saint Elmo Mine. No production records for gold value or volumes were reported in the public record for this district. Approximately 1,000 to 5,000 ounces of gold were produced in this district based on geology and gold occurrences similar to other mining districts with established gold production.

### Recent Exploration Activity

No recent exploration or development activity is known to have occurred in this district.

## 3.2.3 Mojave Desert Province Mining Districts

Gold deposits are widely distributed throughout the Mojave Desert Province of southern California. The Mojave Desert is a broad interior region of mountain ranges separated by expanses of desert plains. The western portion of the province is triangular-shaped and bounded on the north by the extreme southern portion of the Sierra Nevada Mountain Range and on the south by the Transverse Range. The primary gold deposits of this province consist of mesothermal gold-quartz veins that occur in metamorphic and granitic rocks of Precambrian, Paleozoic, and Mesozoic ages or epithermal deposits in zones of solidification and brecciation in volcanic rocks of Tertiary age.

The largest sources of gold in this province have been the Randsburg and Mojave-Rosamond Districts located in Kern County. Placer gold has been recovered in quantity

in many of the districts, considerable amounts having come from dry placers. The most productive dry placers known to have produced gold within the area of investigation have been in the Randsburg District.

3.2.3.1 Alvord District (San Bernardino County, Exhibit 2, Location # 18)

### Location and History

The Alvord District is located in central San Bernardino County about 35 miles northeast of Daggett and is named for the Alvord Mine, the chief producer in the district. Gold was reportedly discovered here in 1885, and the Alvord Mine has been intermittently worked ever since (Clark, 1970).

### Geology

The Alvord District is underlain by Mesozoic granite and Paleozoic carbonate rocks (Byers, 1960). Late Tertiary volcanic rocks are also present (Wright and others, 1953). Siliceous veins at the Alvord Mine contains jasper, calcite, hematite, pyrite, limonite, and free gold. Minor copper mineralization is reportedly present. Ore mined in the past reportedly yielded 0.5 oz/ton of gold (Clark, 1970).

### Mines and Gold Production

The mine which produced gold in the Alvord District was known as the Alvord Mine. No production records for gold value or volumes were reported into the public record for this district. Approximately 5,000 to 20,000 ounces of gold were produced in this district based on geology and gold occurrences similar to other mining districts with established gold production.

#### Recent Exploration Activity

No recent exploration or development activity is known to have occurred in this district.

3.2.3.2 Coolgardie District (San Bernardino County, Exhibit 2, Location #19)

### Location and History

The Coolgardie District is a dry-placer mining district located in western San Bernardino County, about 15 miles northwest of Barstow. The area was reportedly mined intermittently from around 1900 to 1915 (Cloudman and others, 1919), with a total output valued at about \$100,000 (Wright and others, 1953).

### Geology

The Coolgardie District is underlain primarily by Mesozoic granitic rock with localized basic intrusives (Jennings, 1977). The placer deposits are contained within Quaternary alluvium that is in the axis of a broad valley. The gold apparently was derived from veins in granitic rocks that are located to the east and northeast of the district (Laizure, 1934).

#### Mines and Gold Production

The principal mining operator in the Coolgardie District was the Cool Gardie Mining Company, which operated a battery of gasoline-powered dry washers (Clark, 1970). Several two-man operations reportedly employed single dry washers or rockers. Minor prospecting was reportedly done in the district during the 1920's and 1930's (Hulin, 1934). A total of 4,837 ounces of gold were produced from this district.

#### Recent Exploration Activity

No recent exploration or development activity is known to have occurred in this district.

3.2.3.3 Emerson Lake District (San Bernardino County, Exhibit 2, Location #20)

## Location and History

The Emerson Lake District is located in southern San Bernardino County, approximately 25 miles northwest of Twentynine Palms.

## Geology

The Emerson Lake District is underlain by Mesozoic quartz monzonitic rocks that have been intruded by basic (gabbro) bodies (Jennings, 1977; Dibblee, 1967b). The gold has reportedly been found in parallel veins in small pendants of gneiss and granitic rock as high-grade pockets near the surface (Tucker an Sampson, 1940). Several high-grade pockets of wire-gold have reportedly been found in this district.

## Mines and Gold Production

The mines in the Emerson Lake District include Emerson and Los Padre. No confirmed amount of gold production was reported for these mines. No production records for gold value or volumes were reported in the public record for this district. Approximately 1,000 to 10,000 ounces of gold were produced in this district based on geology and gold occurrences similar to other mining districts with established gold production.

# Recent Exploration Activity

No recent exploration or development activity is known to have occurred in this district.

3.2.3.4 Fremont Peak District (San Bernardino County, Exhibit 2, Location #21)

## Location and History

The Fremont Peak District is located about 18 miles southeast of the Randsburg District within San Bernardino County.

## Geology

The Fremont Peak District is underlain by Precambrian gneiss that has been intruded by Cretaceous granitic rocks (Jennings, 1977; Dibblee, 1968). Rhyolitic dikes probably related to the Opal Mountain Volcanics intrude the older rocks and are associated with many of the gold occurrences in the district. Gold reportedly occurs along with pyrite and arsenopyrite in a series of parallel quartz veins (one to four feet wide) and also along the contacts of rhyolite dikes and the granitic basement rocks (Wright and others, 1953). Placer gold also occurs in this district but has not been worked because of the lack of water (Dibblee, 1968).

## Mines and Gold Production

Among the several prospects, only one mine has any recorded production in the district, the Fremont Peak Mine, also known as the Gateway Mine. The Fremont Peak Mine contained over 3,200 feet of underground workings and has had an unknown amount of gold production. Gold mineralization is also reported to occur along fractured, iron-stained rhyolite dikes containing quartz stringers at some of the prospects with no reported past production (Wright and others, 1953; Dibblee, 1968). No confirmed amount of gold production was reported for these mines. No production records for gold value or volumes were reported into the public record for this district. Approximately 10,000 to 25,000 ounces or more of gold were produced in this district based on geology and gold occurrences similar to other mining districts with established gold production.

## Recent Exploration Activity

No recent exploration or development activity is known to have occurred in this district.

3.2.3.5 Goldstone District (San Bernardino County, Exhibit 2, Location #22)

### Location and History

The Goldstone District is located in northwestern San Bernardino County, approximately 35 miles north of Barstow, in what is now part of the U.S. Naval Ordnance Test Station, Mojave Range. The Goldstone District was active in 1915 to 1918, in the 1920's, and again just before World War II (Cloudman and others, 1919; Wright and others, 1953).

### Geology

The Goldstone District is underlain by Mesozoic granitic rock and large pendants of Paleozoic carbonates and siliceous shales (Jennings, 1977; Miller and Sutter, 1982). Numerous diorite dikes cut these rocks and several shallow, gold-bearing quartz veins have been discovered (Koschmann and Bergendahl, 1968). Copper and silver occurrences have also been reported to be present (Cloudman and others, 1919).

#### Mines and Gold Production

Although several mines are reported to have been present in this district no names could be found. No confirmed amount of gold production was reported for these mines. No production records for gold value or volumes were reported into the public record for this district. Approximately 10,000 to 20,000 ounces of gold were produced in this district based on geology and gold occurrences similar to other mining districts with established gold production.

## Recent Exploration Activity

Recent exploration activity has occurred in the Goldstone District in the form of drilling by Goldfields Mining Corporation to evaluate a disseminated ore body. No announced discovery of a commercial ore body has been made. Since then, the U.S. Government has removed this mining district from public entry and it is now part of the Fort Irwin military reservation.

3.2.3.6 Grapevine District (San Bernardino County, Exhibit 2, Location #23)

### Location and History

The Grapevine District is located within the Paradise Mountains of San Bernardino County approximately 15 miles north of Barstow. There are several small lode-gold mines, prospects and dry placer deposits in this area (Clark, 1970).

#### Geology

The Grapevine District is underlain by Mesozoic granitic rock that has been intruded by Miocene andesitic volcanics and Tertiary hypabyssal intrusive bodies (Jennings, 1977). Gold has reportedly been produced from quartz veins that contained free gold. A number of the quartz veins also reportedly contained copper and manganese minerals. The veins are narrow and the deposits are shallow.

#### Mines and Gold Production

The Olympus Mine was the only property that has had much development work. An unknown volume of gold was produced from this mine (Wright and others, 1953). No production records for gold value or volumes were reported into the public record for this district. Approximately 1,000 to 5,000 ounces of gold were produced in this district based

on geology and gold occurrences similar to other mining districts with established gold production.

### Recent Exploration Activity

No recent exploration or development activity is known to have occurred in this district.

3.2.3.7 Kramer Hills District (San Bernardino County, Exhibit 2, Location #24)

### Location and History

The Kramer Hills District is located about eight miles southeast of Kramer Junction in western San Bernardino County.

### Geology

The Kramer Hills consists of a group of a rolling hills that are pedimented surfaces that contain a variety of exposed rock types. Cretaceous granitic rocks, which have intruded Mesozoic metamorphic rocks of probable Sidewinder Series equivalent, are the most common rocks cropping out in the district (Wright and others, 1953). Dikes and irregular bodies of rhyodacite to rhyolite intrude these older rocks. Tertiary tuffaceous sediments that were deposited in the Kramer Basin are exposed in the northern and southern portions of the Kramer Hills (Siefke, 1980).

## Mines and Gold Production

No known gold production had occurred from the Kramer Hills District until the 1980's when a small heap leach gold recovery operation was placed online by Beaver Resources. Numerous small pits and adits are present in this district that are typically a maximum of only several tens of feet deep and are largely caved at present. Rocks exposed on dumps

and at several portals appear to consist of highly pyritized and iron oxide-stained metamorphic rocks that are probably Sidewinder Series equivalent.

No production records for gold value or volumes were reported into the public record for this district prior to the 1980's. Pre-1980 gold production is estimated to have been approximately 1,000 to 5,000 ounces based on geology and gold occurrences similar to other mining districts with established gold production. In 1987, Beaver Resources placed a small heap-leach gold recovery pad into operation. This operation remained in place until about 1989 and appears to have produced approximately 5,000 to 20,000 ounces of gold. Based on these estimates, it is concluded that approximately 6,000 to 25,000 ounces of gold have been produced from this district.

## Recent Exploration Activity

Recent exploration activity has occurred in the Kramer Hills District in the form of drilling. Amselco Minerals and Phillips 66 Mining Company evaluated a disseminated gold ore body within this district. No announced discovery of a commercial ore body has been made. Approximately 20,000 ounces of gold resource base is present in this district based on known geology and established gold production from mining districts with similar conditions.

3.2.3.8 Mojave-Rosamond District (Kern County, Exhibit 2, Location #25)

### Location and History

The Mojave-Rosamond District is located in southeastern Kern County, between the towns of Mojave and Rosamond. The gold deposits are associated with the five prominent buttes south of the town of Mojave and west and north of the town of Rosamond. Gold was discovered in the Yellow Rover vein on Standard Hill in 1894, and soon afterward, other discoveries were made (Bateson, 1907; Brown, 1916). Activity continued until about 1910, but waned over the next 20 years (Troxel and Morton, 1962). The Cactus Gold Mine was

discovered in 1934, and from 1931 until 1941, mining was done in the district on a major scale. The mines were shut down during World War II. The district is estimated to have had a total gold and silver output valued at \$23 million (Troxel and Morton, 1962).

### Geology

The principal rocks within the Mojave-Rosamond District are Tertiary rhyolite, rhyolite porphyry and quartz latite, which are underlain by Mesozoic quartz monzonite (Jennings, 1977; Dibblee, 1963, 1967a, 1980). All of the gold deposits are associated with the five topographic prominences, the most important of which, both in productivity and in the number of deposits, is Soledad Mountain (Perez, 1978). The gold ore reportedly occurs in epithermal fissure veins that occupy brecciated and sheared zones in the volcanic rocks. The ore contains finely divided gold, with appreciable amounts of silver minerals, including cerargyrite, argentite, and smaller amounts of pyrargyrite and electrum. Pyrite, arsenopyrite, galena and chalcopyrite also are present. The ore shoots range from a few feet to 40 feet in thickness, and are up to 200 feet long (Tucker and others, 1949a). The veins have reportedly been developed to depths of 1,000 feet. Milling ore is reported to have usually averaged about 0.3 oz/ton of gold, but some very rich ore shoots were worked in the earlier mining operations (Troxel and Morton, 1962; Brown, 1916; Tucker, 1935).

# Mines and Gold Production

Mines in this district include: Burton-Brite-Blank; Cactus Gold (\$5 million+); Double Eagle; Crescent; Elephant (\$200,000 to \$400,000); Excelsior; Golden Queen (includes Echo and Gray Edge, Queen Ester and Silver Queen) (\$10 million+); Middle Butte (\$150,000+); Milwaukee; Pride of Mojave; Quien Sabe; Standard group (Desert Queen, Exposed Treasure and Yellow Rover) (\$3.5 million); Tropico (114,000 ounces); Wegman group (Eureka, Karma and Monarch) (100,000 ounces or more); Western; Whitmore; Winkler; and Yellow Dog (5,800+ ounces).

Based on published gold volume and price data, it is estimated that approximately 1.046 million ounces of gold was produced prior to 1970. During the 1980's two of the previous gold mines the Standard Hill Mine and the Cactus Gold Mine were reactivated as large tonnage, disseminated gold projects. The Standard Hill Mine was reactivated by Billiton Minerals USA and reportedly produced 115,000 ounces of gold from an open pit that mined the former underground workings from 1987 to 1994. The Cactus Gold Mine was reactivated during the late 1980's in a similar fashion and reportedly recovered approximately 200,000 ounces of gold from 1986 to 1994.

Golden Queen Mining Company, Inc. has announced gold reserves and resources of approximately 2.3 million ounces for the Soledad Mountain Project. It is estimated that the remaining potential for the Mojave-Rosamond District, except for the Soledad Mountain Project, is approximately 25,000 ounces. Total recorded production and estimated reserves for the Mojave-Rosamond District amount to 2.486 million ounces of gold.

## Recent Exploration Activity

Exploration activity is underway at Cactus Gold and no announcements have been made.

3.2.3.9 Ord District (San Bernardino County, Exhibit 2, Location #26)

# Location and History

The Ord district is located in the Ord and Newberry Mountains, approximately 20 miles southeast of the city of Barstow. The district was organized around 1870, and intermittent development work continued for many years after (Clark, 1970; Cloudman and others, 1919). There was some intermittent activity in the district during the 1930's. Although the district is reported to have been a small gold producer, there are many mines and prospects.

### Geology

The region is underlain by granite and quartz monzonite and a variety of Tertiary volcanic rocks that include basalt, andesite and rhyolite (Weber, 1963; Dibblee, 1964b). The gold-quartz veins are reportedly confined to the granitic rocks and often are associated with dikes. The ore bodies contain abundant sulfides and iron oxide (Wright and others, 1953). Appreciable amounts of copper and silver minerals are reportedly present in places. There are reportedly a few gold-bearing placer deposits located in this district (Tucker, 1940).

### Mines and Gold Production

The mines reported in this district include: Alarm; Azucar; Black Butte; Camp Rock (placer); Cumberland; Elsie; Gold Banner; Gold Belt; Gold Brick; Gold Peak; Grandview; Haney and Lee; Hoover; Johnson; Lucky Strike; New Deal; Old; Ord Belt; Red Hill; and Riley. An unknown volume of gold was produced from these mines (Wright and others, 1953). No production records for gold value or volumes were reported into the public record for this district. Approximately 1,000 to 10,000 ounces of gold were produced in this district based on geology and gold occurrences similar to other mining districts with established gold production.

### Recent Exploration Activity

Recent precious metals exploration has reportedly occurred in this district to evaluate a possible porphyry copper occurrence that may be gold-bearing. Bear Creek Mining, Duvall Corporation, and Cypress Mining Company have each conducted exploration drilling campaigns in the Ord District over the last 25 years. No announced ore reserves or discovery have been announced by any of these companies.

No recent development activity within the last 10 years is known to have occurred in this district.

3.2.3.10 Oro Grande District (San Bernardino County, Exhibit 2, Location #27)

## Location

The Oro Grande District is located in the vicinity of the town of Oro Grande approximately five miles north of Victorville. The gold mines in this district were active during the 1880's, early 1900's and again in the 1930's (Clark, 1970). Large amounts of cement are produced here now.

### Geology

The Oro Grande District is underlain by schist, quartzite and limestone of the Oro Grande series (Carboniferous); dacite, rhyolite and latite of the Sidewinder volcanic series (Triassic); and Cretaceous quartz monzonite (Jennings, 1977; Bowen and VerPlanck, 1965). The quartz veins are narrow, and the ore bodies usually are generally small and irregular shaped. Most of the ore has come from the oxidized zone near the surface, but a few high-grade pockets have been found in the veins. The ore contains free gold and often abundant sulfides, including pyrite, chalcopyrite, sphalerite and bornite. The Carbonate Mine has yielded appreciable amounts of gold- and silver-bearing lead carbonate (Wright and others, 1953).

## Mines and Gold Production

The mines in this district include: Apex; Branch; Carbonate; Dents Grandview Lode; Gold Bullion; Gold King; Oro Grande I and II; Sidewinder; and Western. An unknown volume of gold was produced from these mines (Wright and others, 1953). Approximately 1,000 to 5,000 ounces of gold were produced in this district based on geology and gold occurrences similar to other mining districts with established gold production.

### Recent Exploration Activity

No recent exploration or development activity within the last 10 years is known to have occurred in this district.

3.2.3.11 Randsburg District (Kern and San Bernardino County, Exhibit 2, Location #28)

## Location and History

The Rand or Randsburg District straddles the Kern-San Bernardino County line in the immediate vicinity of the town of Randsburg, about 40 miles northeast of Mojave. The western part of the district is located in Kern County and has been chiefly a source of gold (Troxel and Morton, 1962). The eastern part of the district is located in San Bernardino County and, has been largely a source of silver (Wright and others, 1953).

Although this region was prospected as early as the 1860's, it was not until placer gold was discovered in 1893 in Goler Wash, in the El Paso Mountains 15 miles to the west, that there was any mineral production (Newman, 1923). Numerous short-lived dry-washing camps soon sprang up over the entire region. The Yellow Aster Mine, originally known as the Olympus, was located in 1895 (Cooper, 1936). Other gold discoveries were made in the district, and the rich ore recovered in these early operations led to a gold rush (Hess, 1909). The district was named for the Rand District in South Africa.

Large-scale gold mining continued until 1918. The famous and highly productive Kelly or California Rand Silver Mine was discovered in 1919 and was operated on a major scale through the 1930's (Troxel and Morton, 1962). Gold production from the district was substantial in the 1930's and early 1940's. Since that time there has been ongoing prospecting development work.

### Geology

The principal rocks underlying the Randsburg District are the Precambrian Rand Schist and the Atolia Quartz Monzonite of Mesozoic age (Hulin, 1925; Jennings, 1977). The Rand Schist is chiefly biotite schist with smaller amounts of amphibolite and quartzite. To the east are poorly consolidated clays, sandstones and conglomerates of continental origin, which are overlain by andesite at Red Mountain. Rhyolite and latite intrusives are present in the east-central part of the district.

Most of the lode-gold deposits are in veins that occur along faults, except at the Yellow Aster Mine, where the gold is in a series of closely spaced veinlets in small fractures (Troxel and Morton, 1962). The majority of the gold deposits are in the schist, which is more widespread than the quartz monzonite (Jennings, 1977). The veins are unoriented, but usually have a well-defined hanging wall.

The ore bodies most commonly occur in the vein footwalls, usually at or near vein intersections or in sheared and brecciated zones. The ore reportedly consists of iron oxide-stained brecciated and silicified rock containing native gold in fine grains and varying amounts of sulfides. The sulfides increase with depth, but the gold values decrease. Most mining has stopped where unoxidized sulfides were found in the veins, and the maximum depth of development is 600 feet.

Milling ore reportedly contained from 0.15 to 0.25 oz/ton of gold (Troxel and Morton, 1962). The high-grade ore nearly always occurred in pockets near the surface. Most of the placer gold has been recovered from dry placers at Stringer or in the Rand Mountains north of Randsburg.

#### Mines and Gold Production

The mines in the Randsburg District included: Arizona; Baltic,(\$50,000); Barnett; Beehive; Big Dike (\$200,000); Big Gold (\$500,000); Black Hawk (\$700,000); Buckboard (\$500,000);

Bully Boy (\$120,000); Butte (\$2 million); California; Consolidate (\$50,000); Culbert; Gold Crown; Granton; Gunderson; Hawkeye; Hercules; King Solomon (\$500,000); Little Butte (\$400,000); Lucky Boy (\$120,000); Merced; Minnehaha (\$100,000); Mizpah Montana; Monarch Rand; New Deal; Operator Divide (\$600,000); Pestle; Pinemore; Red Bird; Santa Ana group (\$400,000); Sidney (\$250,000); Snowbird; Sunshine (\$1.06 million); Windy; Winnie; and Yellow Aster (\$12 million).

Glamis Gold Ltd. continues to operate a large heap-leach mine as the Rand Mining Company at the Yellow Aster heap leach which reportedly processes gold ore at the rate of approximately 7 million tons of ore a year with an average gold concentration of about 0.018 oz/ton. This production level is capable of producing approximately 100,000 oz/year of gold according to industry sources. It is estimated that approximately 300,000 to 400,000 ounces more of gold will be produced before Glamis Gold completes its operations in Randsburg.

Based on published gold volume and price data, it is estimated that approximately 967,565 ounces of gold was produced in the Randsburg District prior to 1970 (Troxel and Morton, 1962). During the 1980's the mining of low-grade, disseminated gold deposits with the heap-leach cyanide recovery operations contributed another 500,000 ounces of gold production. Total recorded gold production and estimated reserve and resource base for the Randsburg District amounts to 1.767 to 1.867 million ounces of gold.

### Recent Exploration Activity

No additional recent precious metals exploration has reportedly occurred in the Randsburg District other than to support the ongoing Glamis Gold Ltd. operations.

# 3.2.4 Transverse Range Province Mining Districts

The Transverse Range province is comprised of a series of complex-shaped, nearly east-west trending mountain ranges and valleys. The province includes the San Gabriel, San

Bernardino, and Santa Ynez Mountains. The most productive gold-quartz mines have been in the Frazier Mountain, Acton, and Baldwin Lake Districts where the deposits occur in metamorphic and granitic rocks. The most common and most typical primary gold deposits are steeply dipping gold-bearing quartz veins. These veins usually range from 1 to 10 or more feet in thickness. A number of gold ore bodies consist of several parallel quartz veins or they may consist of a zone of numerous narrow quartz stringers (Clark, 1982).

3.2.4.1 Acton District (Los Angeles County, Exhibit 2, Location #29)

## Location and History

The Acton District is located in north-central Los Angeles County, in the general vicinity of the town of Acton, 20 miles north of Los Angeles. This district also includes the area known as the Cedar district. Placer gold was mined in the San Gabriel Mountains here as early as 1834 (Clark, 1970). Lode mining apparently began here in the 1870's or 1880's. The district was reportedly quite productive until about 1900. A number of mines, including the Red Rover, Governor and Monte Cristo, were active again during the 1930's and early 1940's (Gay and Hoffman, 1954). The district has been intermittently prospected since, but there has been very little recorded production.

#### Geology

The Acton District is underlain by Mesozoic quartz diorite, diorite, and Precambrian schist. (Jennings, 1977; Oxyacid, 1958). The gold deposits are reported to consist of gold-quartz veins in quartz diorite, diorite, gabbro and schist. The quartz veins are in faulted and fractured zones and the gold ore is free milling and contains varying amounts of pyrite. The ore bodies commonly consist of small parallel veins rather than a single large vein. The Governor Mine has been developed to an incline depth of 1,000 feet.

The mines in the Acton District include: Buena Esperanza; Governor (New York) (\$1.5 million+); Helene; Hi-Grade; Red Rover (\$550,000); and Puritan. Based on published gold volume and price data, it is estimated that approximately 99,177 ounces of gold were produced from this district.

## Recent Exploration Activity

No recent exploration activity is known to have occurred.

3.2.4.2 Azusa-Tujunga District (Los Angeles County, Exhibit 2, Location #30)

## Location and History

The Azusa-Tujunga District is located along the south flank of the San Gabriel Mountains north and east of Los Angeles. Placer gold has been recovered from a number of canyons and washes within this area. Two of the most important sources of gold have been the San Gabriel Canyon, near Azusa, and Tujunga Canyon, located to the west.

## Geology

The Azusa-Tujunga District is underlain by Precambrian gneiss and granitic rock on which Quaternary alluvial deposits rest (Gay and Hoffman, 1954). The gold placers are produced from the alluvial deposits. The gold is reportedly fine-grained and has been produced mostly from sand and gravel operations as a byproduct in the 1930's and 1950's (Clark, 1982).

No confirmed amount of gold production was reported into the public record for the placer deposits from this district. Approximately 1,000 to 10,000 ounces or more of gold were produced in this district based on geology and gold occurrences in placer deposits similar to other mining districts with established gold production.

### Recent Exploration Activity

No recent exploration activity is known to have occurred in this district.

3.2.4.3 Baldwin Lake District (San Bernardino County, Exhibit 2, Location #31)

### Location and History

The Baldwin Lake District is located in the general vicinity of and east of Baldwin Lake, which is in the northern portion of the San Bernardino Mountains. Placer gold was reportedly mined here by Mexicans possibly as early as 1800 (Cloudman and others, 1919). The Rose Mine was active in 1860, and there was considerable activity in the district in the 1890's and early 1900's. The Doble Mine was active again in the 1930's and 1940's (Clark, 1970).

#### Geology

The Baldwin Lake District is underlain by Mesozoic age mica schist and quartzite, Paleozoic carbonate rocks, and Cretaceous granite rocks (Wright and others, 1953). The lode gold ore deposits consist of systems of irregular shaped quartz-calcite veins containing free-gold, scheelite, and sulfides. The greatest depth of reported development is about 400 feet (Clark, 1970). Placer deposits are also reported to have been worked in this district.

Lode mines that are reported to have been worked in the Baldwin Lake District include the Christie; Doble (\$250,000 to \$300,000); Erwin; Gem; Gold Hill; Hollie Ann; Lester; Log Cabin; Rose (\$450,000 to \$600,000); and Stewart. Placer deposits include the McClure-Bess, Parker, Rattlesnake Canyon, Vaughn and Weaver. Based on published gold volume and price data, it is estimated that approximately 43,541 ounces of gold were produced from this district.

## Recent Exploration Activity

No recent exploration activity is known to have occurred in this district.

3.2.4.4 Black Hawk District (San Bernardino County, Exhibit 2, Location #32)

## Location and History

The Black Hawk District is located in southwestern San Bernardino County approximately 30 miles northeast of the city of San Bernardino on the north flank of the San Bernardino Mountains. This district has also been known as the Silver Reef District. The district was reportedly organized in 1870 (Tucker, 1921). An English concern organized the Santa Fe claim group in 1890 to work the district on a large-scale basis but work stopped soon afterward and prospecting was minor during the early 1900's. The Santa Fe group was reopened in 1921 and operated continuously until 1940. During this last operation the gold production was reported to amount to \$300,000.

#### Geology

The area of the Black Hawk District is underlain by Cretaceous granitic rock, Mesozoic schist, gneiss, and a Paleozoic limestone belt (Woodford and Harris, 1928; Dibblee, 1964a). A mineralized zone known as the Arlington-Santa Fe lode occurs along thrust-

fault plane that strikes west and dips north. The gold ore reportedly consists of hematite-bearing gouge and a limestone breccia (Tucker and Sampson, 1930). Several ore bodies reportedly yielded up to 1 oz/ton (Wright and others, 1953). The ore zones in this district are up to 75 feet thick and approximately 1,000 feet long.

#### Mines and Gold Production

The principal mines in the Black Hawk District that produced most of the gold was referred to as the Santa Fe Group and the Lester (Clark, 1982). Based on published gold volume and price data, it is estimated that approximately 145,000 ounces of gold were produced from this district.

## Recent Exploration Activity

Recent precious metals exploration has reportedly occurred in this district to evaluate potential low-grade disseminated gold deposits. Amselco Minerals and Santa Fe Gold have each reportedly conducted exploration drilling campaigns in the Black Hawk District over the last 15 years. No ore reserves or discovery has been announced by any of these companies.

3.2.4.5 Frazier Mountain District (Los Angeles County, Exhibit 2, Location #33)

## Location and History

The Frazier Mountain District is located in the extreme northeast corner of Ventura County, in the general vicinity of Frazier Mountain. The Piru district is just to the south, and the towns of Gorman and Fort Tejon are located to the east. The region was first placer-mined in the 1840's, and the Frazier Mountain Mine was opened in 1865. This and other lode-gold mines were worked fairly steadily until around 1895. Minor prospecting and development work has been done in the district since; a small production was recorded in 1952.

## Geology

The Frazier Mountain District is underlain by granite, granodiorite, gneiss and schist, and smaller amounts of quartzite and hornfels (Jennings, 1977; Carman, 1964). The gold-quartz veins reportedly strike north, range from a few inches to five feet in thickness, and occur in shear zones that are principally in gneiss and schist (Tucker and Sampson, 1932). The ore is free milling and reportedly contains pyrite and small amounts of other sulfides. Milling-grade ore commonly averaged 0.5 oz/ton of gold. Several of the ore bodies had stope lengths of up to 300 feet. Some placer gold was recovered in the district from the streams and older terrace gravels (Carman, 1964).

## Mines and Gold Production

The mines located in the Frazier Mountain District included Bunker Hill; Esperanza; Fairview; Frazier (\$1 million); Gold Dust; Harris; Hess; Maule; Sibert; and White Mule. Based on published gold volume and price data, it is estimated that approximately 48,379 ounces of gold were produced from this district.

## Recent Exploration Activity

No recent exploration or development activity within the last 10 years is known to have occurred in this district.

3.2.4.6 Holcomb Valley District (San Bernardino County, Exhibit 2, Location #34)

# Location and History

The Holcomb Valley District is located on the north side of the San Bernardino Mountains just north of Big Bear Lake. Placer gold deposits were discovered here in 1860 and extensively worked for a few years (Clark, 1970). The area has been intermittently prospected ever since.

### Geology

The Holcomb Valley District is underlain by Cretaceous quartz monzonite that is surrounded by Paleozoic carbonates and metasediments (Dibblee, 1964; Richmond, 1960). The placer gold occurrences are in alluvium that is Recent to Late Tertiary in age. In addition to the placers, lode-gold occurrences are present in the form of thin-shear and fracture zones within the Cretaceous granitic rocks and/or in contacts between Paleozoic carbonate and Tertiary intrusive rocks (Cloudman and others, 1920).

### Mines and Gold Production

Gold deposits in the Holcomb district consist of both placers and lodes. The placers were the earliest worked and have been reportedly the most productive. The placers were extensively worked in the 1860's. Lode mine production from the district is estimated to be about 54,500 ounces of gold (Koschmann and Bergendahl, 1968).

Mines of interest in the district include:

Ozier Mine. One of the extensive lode workings in Holcomb Valley area. First worked by Mexicans in the 1850's, most active between 1860-90 (Clark, 1982). Mine output unknown but presumed significant. Mine area underlain by quartz monzonite. Workings consisted of numerous shallow shafts and adits that followed numerous closely-spaced, steeply dipping west-northwest-trending fractures that occur along a zone that is over 200 feet wide. The gold-bearing material in this zone is reported to consist of highly hematitic-stained, fractured and decomposed quartz monzonite that contained little actual quartz vein material (Wright and others, 1953).

Green Lead. Gold and silver bearing copper-stained quartz zone at contact between limestones of Furnace Formation and biotite quartz monzonite. Quartz-bearing zone reported to be two to four feet wide. Reported to contain free milling gold ore (Wright and others, 1953).

Gold Button. Granite cataclasite associated with thrust faulting said to contain gold and silver-bearing material along shear zones. Extent of mineralization uncertain but cataclasite zone is over ½ mile in width (Wright and others, 1953).

From 1933 to 1941 about 200,000 cubic yards of Recent and Late Tertiary alluvium were mined by power shovel that reportedly contained about 0.38/dollars per yard of recoverable gold (Clark, 1970). Based on published gold volume and price data, it is estimated that approximately 102,171 ounces of gold was produced from this district.

## Recent Exploration Activity

No recent exploration or development activity within the last 10 years is known to have occurred in this district.

3.2.4.7 Lytle Creek District (San Bernardino County, Exhibit 2, Location #35)

# Location and History

The Lytle Creek District is located in southwestern San Bernardino County in the eastern San Gabriel Mountains. During the 1890's there was reportedly an appreciable amount of placer gold mining activity in this district (Clark, 1970). Operations extended from near the mouth of Lytle Creek to near its headwaters on the east slope of Mount San Antonio (Mount Baldy). Placer mining was reportedly accomplished by both hydraulic and hand methods (Clark, 1970).

# <u>Geology</u>

The Lytle Creek District is underlain by the Cretaceous age Pelona Schist Formation and has been locally intruded by Later Tertiary granodiorite (Jennings, 1977). The San Andreas Fault is located approximately two miles north of the district. Numerous faults that are probably related to the San Andreas Fault system are present within the district.

No confirmed amount of gold production was reported into the public record for the placer deposits from this district. Approximately 1,000 to 10,000 ounces or more of gold were produced in this district based on geology and gold occurrences in placer deposits similar to other mining districts with established gold production.

## Recent Exploration Activity

No recent exploration activity is known to have occurred in this district.

3.2.4.8 Mount Baldy District (San Bernardino County, Exhibit 2, Location #36)

## Location and History

The Mount Baldy District is located within the San Gabriel Mountains of eastern Los Angeles County. The district is just west of Mount San Antonio, which is also known as Mount Baldy or Old Baldy. The district contains both lode- and placer-mining operations (Clark, 1970). Placer mining was originally done here in the San Gabriel River in the 1840's, and for several periods following that time (Gay and Hoffman, 1954). The Mount Baldy District was quite productive (Clark, 1982). Production was obtained from both the stream beds and from terrace gravels, which were mined by hydraulic methods. In 1874 it was reported that more than \$2 million had been produced in the previous 18 years (Clark, 1982). The principal period of lode-gold mining was 1903-1908, but there was some activity again in the 1930's.

# <u>Geology</u>

The Mount Baldy District is underlain by the Mesozoic age Pelona Schist and Mylonite of Vincent Thrust that has been intruded by Late Tertiary granodiorite (Youngs, 1988). The gold-quartz veins reportedly occur in the schist and gneiss immediately adjacent to the

fault plane of the Vincent Thrust Fault. The ore bodies usually are three feet or less in thickness and do not extend to any great depth. The oxidized zones near the surface yielded the richest ore (Gay and Hoffman, 1954).

## Mines and Gold Production

Mines located in the Mount Baldy District include: Allison (\$50,000); Baldora; Big Horn (\$40,000+); Eagle; Gold Dollar; Holly; Heaton; Native Son; Stanley; and Zanteson. An estimated 96,758 ounces of gold was produced from the placer accumulations in this district (Clark, 1982). An additional 50,000 ounces of gold was produced from the lode mines in this district (Clark, 1982).

The Big Horn Mine is currently owned by Siskon Gold, Inc. which has reportedly drilled out a proven and probable reserve base of 300,000 ounces of gold at a grade of 0.144 oz/ton. Additional production may be obtained from a gold resource base of approximately 540,000 ounces. Siskon is attempting to place this property into production and has obtained a number of its required governmental operating permits.

Based on known and extrapolated past production from placer and lode gold mines of 146,758 ounces and the identified proven and resource base of gold at the Big Horn Mine, the total gold resource that can ultimately be produced from the Mount Baldy District is approximately 986,758 ounces.

# Recent Exploration Activity

Other than the activity related to the Big Horn Mine no recent exploration activity is known to have occurred in this district.

3.2.4.9 Mount Gleason District (Los Angeles County, Exhibit 2, Location #37)

## Location and History

The Mount Gleason District is located in northern Los Angeles County in the general vicinity of Mount Gleason, about 15 miles due north of Pasadena.

### Geology

The Mount Gleason District is underlain by Mesozoic age granitic rock that surrounds small pendants of schist (Jennings, 1977). A number of small, lode-gold deposits have been reported to have occurred in granite and metamorphic rocks (Sampson, 1937; Clark, 1982).

### Mines and Gold Production

The principal mines that are known to have been worked in this district are the Los Padre and Mount Gleason Mines. None of these mines have been worked in many years (Tucker, 1927). No confirmed amount of gold production was reported into the public record for the placer deposits from this district. Approximately 1,000 to 10,000 ounces or more of gold were produced in this district based on geology and gold occurrences in placer deposits similar to other mining districts with established gold production.

## Recent Exploration Activity

No recent exploration activity is known to have occurred in this district.

# 3.2.4.10 Neenach District (Los Angeles County, Exhibit 2, Location #38)

## Location and History

The Neenach District is located in the northern portion of Los Angeles County, about 20 miles west-northwest of Lancaster. Gold was discovered here in 1899, but the bulk of the production of about \$200,000 was reportedly obtained in 1935-38 (Clark, 1970; 1982). There reportedly has been intermittent mining and development work here since the 1930's (Clark, 1970).

## Geology

The Neenach District is underlain by Mesozoic quartz monzonite rock that is overlain by Tertiary sediments and volcaniclastic sediments (Wiese, 1950). Small roof pendants of Paleozoic metasediments are present in the district (Simpson, 1934). The gold deposits occur in a contact zone between metasediments and quartz monzonite. The ore bodies consist of zones of narrow quartz veins and stringers containing free gold and varying amounts of pyrite. The oxidized zone yielded material valued as high as \$60 of gold per ton. Most of the production has been from the Rivera or Rogers-Gentry group of mines (Sampson, 1937).

## Mines and Gold Production

The mines in the Neenach District reportedly consisted of the Rivera or Rogers-Gentry group of mines (Clark, 1970). No confirmed amount of gold production was reported into the public record for the placer deposits from this district. Based on published gold volume and price data, it is estimated that approximately 9,675 ounces of gold were produced from this district.

### Recent Exploration Activity

No recent exploration activity is known to have occurred in this district.

3.2.4.11 Piru District (Ventura County, Exhibit 2, Location #39)

### Location and History

The Piru District is located in northeastern Ventura County in the vicinity of Piru Creek. Placer mining was begun here in 1841 and gold from the district was shipped to the U.S. Mint in Philadelphia in 1842 (Clark, 1970; Bowers, 1888). Small-scale placer mining continued intermittently through the 1890's, and there was some work again in the 1920's and 1930's (Huguenin, 1919; Clark, 1970).

### Geology

The Piru District is underlain by Precambrian gneiss (Jennings, 1977). The placer gold deposits are in and adjacent to the upper part of Piru Creek, chiefly in the vicinity of its junction with Lockwood Creek, and to the east in the Gold Hill area (Clark, 1970). The placer gold has been recovered both from Recent stream gravels and older terrace deposits on the hills north of Lockwood Creek. The placer gold often is coarse-grained. There are a number of north-striking gold-quartz veins that range from a few inches to about four feet in thickness. The veins occur in shear zones, and usually in granitic gneiss or homblended schist. The ore contains free gold and varying amounts of pyrite. Milling ore sometimes averaged 0.5 oz/ton of gold.

#### Mines and Gold Production

The placer mines in the Piru District were not named. Among lode-gold mines, the principal operation was the Castaic Mine, which has an estimated total output valued at about \$160,000 (Tucker, 1925). No confirmed amount of gold production was reported

into the public record for the placer deposits from this district (Tucker, 1932). Based on published gold volume and price data, it is estimated that approximately 7,740 ounces of gold was produced from this district.

## Recent Exploration Activity

No recent exploration activity is known to have occurred in this district.

3.2.4.12 Saugus District (Los Angeles County, Exhibit 2, Location #40)

## Location and History

The Saugus District is located in the western San Gabriel Mountains in Los Angeles County near the towns of Newhall and Saugus. This area is an extensive placer gold district and includes the upper Santa Clara River, Sand Canyon, Pacoima Canyon, and Arrastre Canyon areas as well as a number of small canyons (Clark, 1970). This area is also known as the Newhall or San Gabriel Districts (Sampson, 1937). Gold was discovered in the district in the early 1800's and the placers have been worked intermittently since then. Production estimates of \$100,000 have been reported to have occurred during the first few years of development (Oakshott, 1958).

# Geology

The Saugus District is underlain by Recent and older Quaternary alluvium deposits which contain gold-bearing placer deposits (Jennings, 1977).

# Mines and Gold Production

The placer mines in the Piru District were not named. No confirmed amount of gold production was reported into the public record for the placer deposits from this district.

Based on published gold volume and price data, it is estimated that approximately 4,837 ounces of gold were produced from this district.

### Recent Exploration Activity

No recent exploration activity is known to have occurred in this district.

## 3.3 Land Status Review of Area of Investigation

The land status of the area of investigation is shown in generalities on Exhibit 2. Numerous military bases are located within the area of investigation that have restricted or precluded future mineral exploration and/or development. In addition, Exhibit 2 depicts the approximate boundaries of the U.S. Forest Service and U.S. Bureau of Land Management Roadless and Primitive areas and California state park lands.

## 3.4 Alternative Project Site Economic Viability Criteria

Review of the Soledad Mountain Project geology and mineralization suggests that an alternative site for the project should have the following minimum criteria:

- Ore reserves of 60,000,000 tons or more at a grade of 0.030 oz/ton goldequivalent.
- Stripping ratio of overburden to ore of less than 4:1.
- Sufficient groundwater resources to support a heap-leach cyanide recovery process.
- Infrastructure such as electrical power access within five miles of the proposed alternative site.

#### 4.0 CONCLUSIONS

The conclusions of the WZI investigation were as follows:

- 1. Forty mining districts were evaluated within the area of investigation for feasibility of alternate project site where gold mineralization in commercial quantities may exist.
- A total of fourteen of the alternate project site mining districts evaluated are located either within or immediately adjacent to state of California or Federal lands that have been designated as Primitive or Wilderness Areas.
- 3. A total of three of the alternate project site mining districts evaluated are located within or immediately adjacent to federal military lands.
- 4. Alternate project sites that are not excluded by the above factors are:
  - The Yellow Aster Mine owned by Glamis Gold Ltd. in the Randsburg District
  - The Zenda Mine project owned by Claim Staker Resources, Inc. in the Loraine
     District
  - The Big Hom Mining project owned by Siscon Gold, Inc. located in Los Angeles County in the Mount Baldy District
- 5. None of the alternate sites have potential ore reserves that amount to 25 percent of the projected ore reserves of the Golden Queen Soledad Mountain Project.
- 6. In each of these alternative project locations a mining company has already established controlling interest in the identified mining properties.

#### 5.0 REFERENCES

- Bateson, G. E. W., 1907, *The Mojave Mining District of California*: Trans. Am. Inst. Min. Engrs., vol. 37, p. 160-177.
- Berger, B. R. and Eimon, P. I., 1981, Comparative Models of Epithermal Silver-Gold Deposits; paper presented at Epithermal Gold-Silver Seminar, Tucson, Arizona, December 2-4, 1981.
- Bonham, H. F., Jr., 1981, *Bulk-Mineable Gold-Silver Deposits in Cordilleran and Island Arc Settings*; paper presented at Ore Deposit Workshop, Toronto, December 14-18, 1981, 23 p.
- Bowen, O. E., Jr. and VerPlanck, W. E., 1965, Stratigraphy, Structure and Mineral Deposits of the Oro Grande Series Near Victorville, California: California Division of Mines and Geology, Special Report 84.
- Bowers, S., 1888, Gold Ventura County: California Mining Bureau, Report 8, p. 680-684.
- Brown, G. C., 1916, *Kern County, Amalie District*: California Mining Bureau, Report 14, p. 482.
- Brown, G. C., 1916, Kern County, Cove District: Beauregard, Big Blue, Blue Gouge and Bull Run Mines: California Mining Bureau, Report 14, p. 482 and 487-490.
- Brown, G. C., 1916, *Kern County, Mojave District*: California Mining Bureau, Report 14, p. 483.
- Brown, G. C., 1916, *Kern County, Randsburg District*: California Mining Bureau, Report 14, p. 483–484.

- Buchanan, J. L., 1981, *Precious Metal Deposits Associated with Volcanic Environments in the Southwest*. Arizona Geological Society Digest, vol. 14, p. 237-262.
- Byers, F. J., 1960, Geology of the Alvord Mountain Quadrangle, San Bernardino County, California: U.S. Geological Survey, Bulletin 1089-A, 71 p.
- Carman, Max F., Jr., 1964, Geology of the Lockwood Valley Area, Kern and Ventura Counties: California Division of Mines and Geology, Special Report 81, 62 p.
- Clark, W. B., 1970, *Gold Districts of California*: California Division of Mines and Geology, Bulletin 193, 186 p.
- Clark, W.B., 1980, Gold in the California Desert; in Fife, D. L. and Brown, A. R. eds., Geology and Mineral Wealth of the California Desert: South Coast Geological Society, Dibblee Volumes, 555 p.
- Clark, W. B., 1982, Gold in the Transverse Ranges, Southern California; in Fife, D. L. and Minch, J. A., eds., Geology and Mineral Wealth of the California Transverse Ranges: South Coast Geological Society, Mason Hill Volume, 699 p.
- Cloudman, H. C., Huguenin, E. and Merill, F. J. H., 1919, San Bernardino County, Cool Gardie: California Mining Bureau, Report 15, p. 817.
- Cloudman, H. C., Huguenin, E. and Merill, F. J. H., 1919, San Bernardino County, Goldstone District: California Mining Bureau, Report 15, p. 804-807.
- Cloudman, H. C., Huguenin, E. and Merill, F. J. H., 1919, San Bernardino County, Ord District. California Mining Bureau, Report 15, p. 808-810.

- Coney, P. J., 1978, *Mesozoic- Cenozoic Cordilleran Plate Tectonics*; in Cenozoic Tectonics and Regional Geophysics of the Western Cordillera, Smith R. B., and Eaton, G.P., eds., Geological Society of America Memoir 152, p. 33-50.
- Cooper, C. L., 1936, *Mining and Milling Methods and Costs at the Yellow Aster Mine*: United States Bureau of Mines, Information Circular 6900, 21 p.
- Crawford, J. J., 1894, Amalie Mine: California Mining Bureau, Report 12, p. 141.
- Crawford, J. J., 1893, Big Blue Mine: California Mining Bureau, Report 11, p. 142.
- DeGroot, Henry, 1890, Slate Range District. California Mining Bureau, Report 10, p. 533.
- Dibblee, T. W., Jr., 1980, *Pre-Cenozoic Rock Units of the Mojave Desert*; in Fife, D. L. and Brown, A. R., eds., Geology and Mineral Wealth of the California Desert: South Coast Geological Society, Dibblee Volume, p. 13-50.
- Dibblee, T. W., Jr., 1968, Geology of the Fremont Peak and Opal Mountain Quadrangles, California: California Division of Mines and Geology, Bulletin 188, 64 p.
- Dibblee, T. W., Jr., 1967a, Areal Geology of the Western Mojave Desert, California: U.S. Geological Survey, Professional Paper 522.
- Dibblee, T. W., Jr., 1967b, Geologic Map of the Emerson Lake Quadrangle, San Bernardino County, California: U.S. Geological Survey, Miscellaneous Geological Investigations, Map I-490.
- Dibblee, T. W., Jr., 1964a, Geologic Map of the Lucerne Valley Quadrangle, San Bernardino Valley Quadrangle, San Bernardino County, California: U.S. Geological Survey, Miscellaneous Geological Investigations, Map 1-426, scale 1:62,500.

- Dibblee, T. W., Jr., 1964b, *Geologic Map of the Ord Mountain Quadrangle, San Bernardino, California*: U.S. Geological Survey, Miscellaneous Geological Investigations, Map I-427, scale 1:62,500.
- Dibblee, T. W., Jr., 1963, Geology of the Willow Springs and Rosamond Quadrangles, California: United States Geological Survey, Bulletin 1089-C, p. 141-253.
- Dibblee, T. W., Jr., and Louke, G. P., 1970, Geologic Map of the Tehachapi Quadrangle, Kern County, California: U.S. Geological Survey, Miscellaneous Geological Investigations, Map I-607.
- Gardner, D. L., 1954, Gold and Silver Mining Districts in the Mojave Desert Region of Southern California, in Jahns, R. H., ed., Geology of Southern California: California Division of Mines, Bulletin 170, p. 51-58.
- Gay, T. E., Jr., and Hoffman, S. R., 1954, *Gold Los Angeles County*: California Journal of Mines and Geology, vol. 50, p. 493-502.
- Gay, T. E., Jr., and Hoffman, S. R., 1954, Los Angeles County, Governor, Hi-Grade and Red Rover Mines: California Journal of Mines and Geology, vol. 50, p. 497-500.
- Haley, C. S., 1923, *Gold Placers of California Dry Placers*: California Mining Bureau, Bulletin 92, p. 154-160.
- Hess, F. L., 1909, *Gold Mining in the Randsburg Quadrangle*: United States Geological Survey, Bulletin 430, p. 23-47
- Huguenin, Emile, 1919, *Gold Ventura County*: California Mining Bureau, Report 15, p. 759-760.

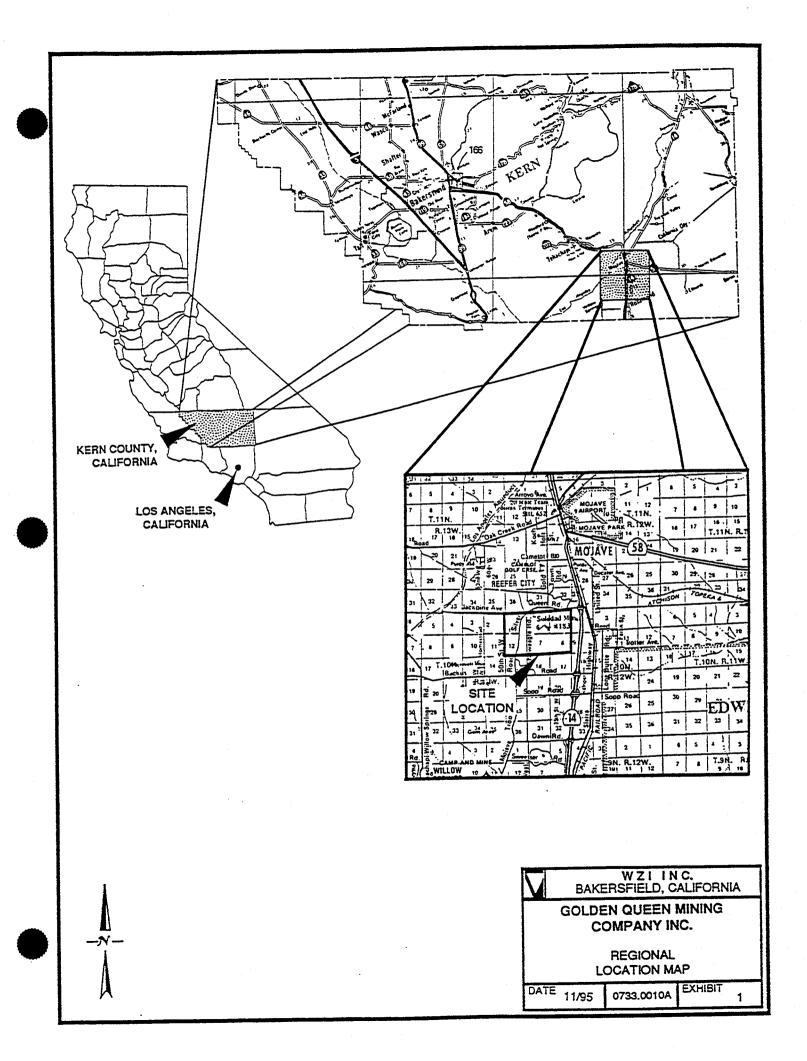
- Hulin, Charleston D., 1934, Geologic Features of the Dry Placers of the Northern Mojave Desert: California Division of Mines, Report 30, p. 417-426.
- Hulin, Charleston D., 1925, *Geology and Ore Deposits of the Randsburg Quadrangle*: California Mining Bureau, Bulletin 95, 152 p.
- Jennings, C. W., *Geologic Map of California*: California Division of Mines and Geology, Map No. 2, scale 1:750,000.
- Koschmann, A. H. and Bergendahl, M. H., 1968, *Principal Gold Producing Districts of the United States*: U.S. Geological Survey, Professional Paper 610, 283 p.
- Laizure, C. McK., 1923, *Tulare County, White River Mining District*. California Mining Bureau, Report 18, p. 524-527.
- Laizure, C. McK., 1934, San Bernardino County, Coolgardie: California Mining Bureau, Report 30, p. 250.
- Mabey, D. R., Zietz, I., Eaton, G.P. and Kleinfopf, *Regional Magnetic Patterns in the Part of the Cordillera in the Western United States*; in Cenozoic Tectonics and Regional Geophysics of the Western Cordillera, Smith R. B. and Eaton, G. P., eds., Geological Society of America, Memoir 152, p.93-106.
- Merrill, F. J. H., 1919, Gold Los Angeles County: California Mining Bureau, Report 15, p. 473-477.
- Miller, E. L. and Sutter, J. F., 1982, Structural Geology and 40<sub>Ar</sub> 39<sub>Ar</sub> Geochronology of the Goldstone-Lane Mountain Area, Mojave Desert, California: Geological Society of America Bulletin, vol. 93, p. 1191-1207.

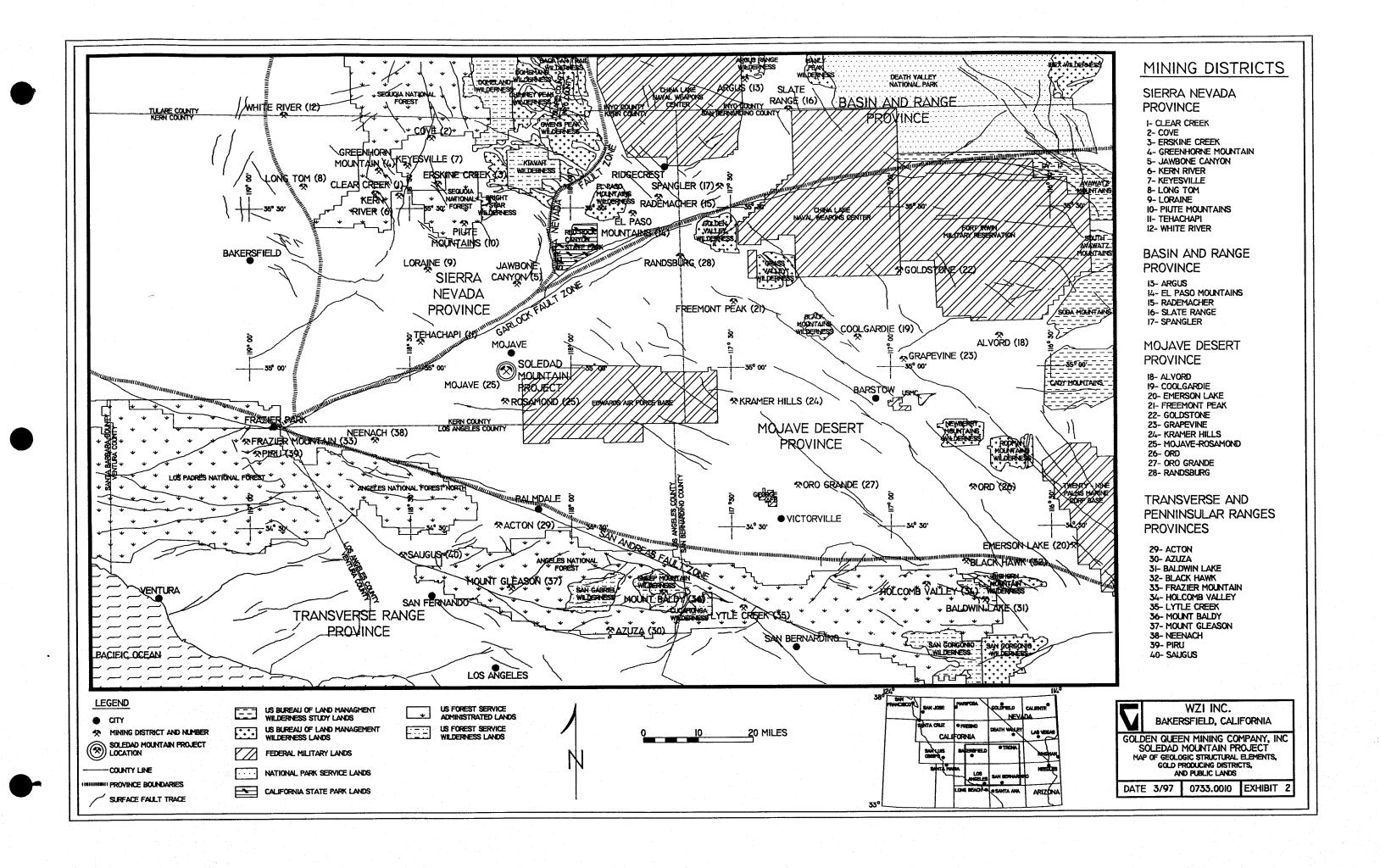
- Miller, William J. and Webb, Robert W., 1940, *Descriptive Geology of the Kernville Quadrangle*: California Division of Mines, Report 36, p. 343-378.
- Newman, M. A., 1923, The Rand District. California Mining Bureau, Report 19, p. 61-63.
- Norman, L. A., Jr., and Stewart, R. M., 1951, *Mines and Mineral Resources of Inyo County-Gold*: California Journal of Mines and Geology, vol. 47, p. 38-53.
- Oxyacid, G. B., 1958, *Geology and Mineral Deposits of the San Fernando Quadrangle*: California Division of Mines, Bulletin 172, 147 p.
- Perez, H. R., 1978, Geology and Geochemical Exploration of the Gold-Silver Deposits at Soledad Mountain (Mojave, Kern County, California): unpublished M. S. thesis, University of California at Los Angeles, 146 p.
- Prout, John W., Jr., 1940, *Geology of the Big Blue Group of Mines, Kernville*: California Division of Mines, Report 36, p. 379-421.
- Richmond, J. F., 1960, Geology of the San Bernardino Mountains North of Big Bear Lake, California: California Division of Mines, Special Report 65.
- Sampson, R. J., 1937, *Gold Los Angeles County*: California Division of Mines, Report 33, p. 177-196.
- Siefke, J., 1980, Geology of the Kramer Borate Deposit, Boron, California; in Fife, D. L. and Brown, A. R. eds., Geology and Mineral Wealth of the California Desert: South Coast Geological Society, Dibblee Volumes, 555 p.
- Silberman, M. L., 1982, *Hot-Spring Type, Large Tonnage, Low-Grade Gold Deposits*; in U.S. Geological Survey, OFR 82-795, p. 131-143.

- Simpson, E. C., 1934, *Geology and Mineral Resources of the Elizabeth Lake Quadrangle*: California Division of Mines, Report 30, p. 371-415.
- Smith, G. I., 1964, Geology and Volcanic Petrology of the Lava Mountains, San Bernardino County, California: U.S. Geological Survey, Professional Paper 457.
- Smith, G. I., Troxel, B. W., Gray, C. H., Jr., and vonHuene, R., 1968, *Geologic Reconnaissance of the Slate Range, San Bernardino and Inyo Counties, California*: California Division of Mines and Geology, Special Report 96.
- Storms, W. H., 1909, *Geology of the Yellow Aster Mine*: Engineering and Mining Journal, vol. 87, p. 1277-1280.
- Troxel, B. W. and Morton, P. K., 1962, *Mines and Mineral Resources of Kern County, California*: California Division of Mines and Geology, County Report 1, 370 p...
- Tucker, W. B., 1940, Economic Mineral Deposits of the Newberry and Ord Mountains, San Bernardino County, California: California Divisions of Mines, Report 36, p. 232-254.
- Tucker, W. B., 1935, *Mining Activity at Soledad Mountain and Middle Buttes Mojave Mining District*: California Division of Mines, Report 31, p. 465-485.
- Tucker, W. B., 1927, Gold Los Angeles County: California Mining Bureau, Report 23, p. 291-295.
- Tucker, W. B., 1925, *Gold Ventura County*: California Mining Bureau, Report 21, pp. 229-232.
- Tucker, W. B., 1923, Kern County. California Mining Bureau, Report 19.
- Tucker, W. B., 1921, San Bernardino County, Gold: California Mining Bureau, Report 17.

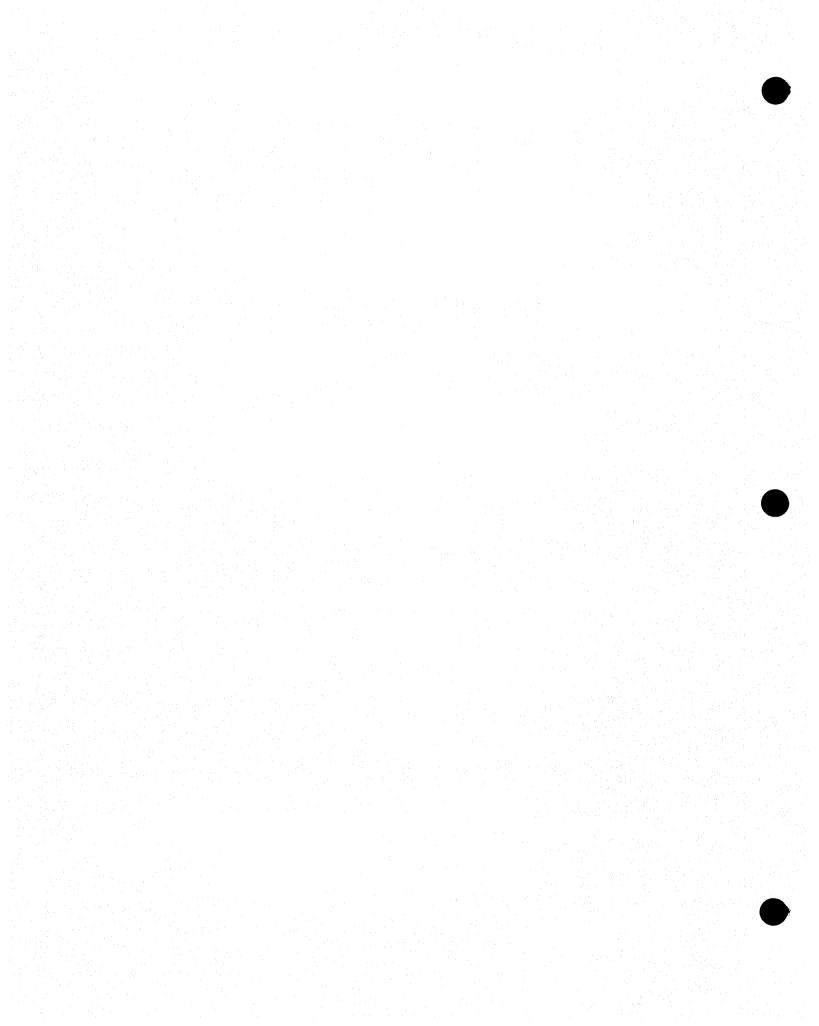
- Tucker, W. B., 1919, *Tulare County, White River Mining District*. California Mining Bureau, Report 15, pp. 912-915.
- Tucker, W. B. and Sampson, R. J., 1933, *Gold Resources of Kern County, California*: California Journal of Mines and Geology, vol. 29, p. 271-334.
- Tucker, W. B. and Sampson, R. J., 1932, *Gold Ventura County*: California Division of Mines, Report 28, p. 253-257.
- Tucker, W. B. and Sampson, R. J., 1930, *Gold San Bernardino County*: California Division of Mines, Report 26, p. 221-260.
- Tucker, W. B., Sampson, R. J. and Oxyacid, G. B., 1949, *Mines and Mineral Resources of Kern County, California*: California Journal of Mines and Geology, vol. 45, p. 203-297.
- Tucker, W. B., Sampson, R. J. and Oxyacid, G. B., 1949, *Kern County, Golden Queen Mining Company:* California Journal of Mines and Geology, vol. 45, pp. 220-223.
- Weber, F. H., 1963, Geology and Mineral Deposits of the Ord Mountain District, San Bernardino County: California Division of Mines and Geology, Special Report 77, 45 p.
- Wiese, J. H., 1950, Geology and Mineral Resources of the Neenach Quadrangle: California Division of Mines, Bulletin 153, 53 p.
- Woodford, A. D. and Harris, T. F., 1928, *Geology of the Black Hawk Canyon*: California Department of Geological Science, Bulletin, vol. 17, p. 265-304.
- Wright, L. A., Stewart, R. M., Gay, T. E., 1953, *Mines and Mineral Deposits of San Bernardino County Gold*: California Journal of Mines and Geology, vol. 49, p. 69-86.

**EXHIBITS** 





**TABLES** 



# TABLE 1 Tabulation of Significant Dates in the History of Gold Mining in California

1775-80	The first known discovery of gold in California was made in the Potholes district, Imperial County. Mining extended into the Cargo Muchacho and Picacho districts.
1835	The placer deposits in San Francisquito Canyon, Los Angeles County were discovered.
1842	Gold was discovered in Placerita Canyon, Los Angeles County. Some sources give the date of this discovery as 1841.
1851	Gold was discovered in Greenhorn Creek, Kern County. This discovery led to the rush to the upper Kern River Region.
1852	California's annual gold production reached an all time high of \$81 million.
1853	The Fraser River rush in British Columbia caused a partial exodus of miners from the state.
1855	The rich surface placers were largely exhausted by this date, and river mining in the northern Sierra Nevada accounted for much of the state's output until the early 1860's. All of the rivers in the gold regions were mined.
1859	The Comstock silver rush began in Nevada. This development caused a large exodus of gold miners from California. However, it stimulated gold and silver prospecting in eastern and southeastern California, within the area of investigation.
1864	By this time California's gold rush had ended. The rich surface and river placers were largely exhausted; hydraulic mines were the chief sources of gold for the next 20 years.
1868	The first air drills were introduced. However, widespread use of air drills in mining did not come for another 30 years.
1883	Gold production figures began to be collected for the calendar year instead of the fiscal year.
1893	Gold was discovered in Goler Gulch in the El Paso Mountains in eastern Kern County. This led to other discoveries in the area and the influx to the Randsburg district, which began in 1895.
1916	The general prosperity that began during World War I and continued to 1929, with accompanying high costs, caused a decrease in gold output.

## TABLE 1 Tabulation of Significant Dates in the History of Gold Mining in California

1929	Peak of post World War I boom. Lowest point in gold production since 1849.
1930	Gold production started to rise because of the depression and resulting low operating costs.
1933-35	The price of gold increased from \$20.67 to \$35 per fine ounce. This rise ultimately resulted in a large increase in gold output and in much greater exploration activities.
1940	Gold output totaled nearly \$51 million. This was the most valuable annual output since 1856. Thousands of miners were employed in the quartz mines at Grass Valley, Alleghany, Nevada City, Jackson, Sutter Creek, Jamestown, Mojave, and French Gulch districts. There were many active bucket-line dredges, and dragline dredges became important producers of placer gold.
1942	World War II caused a precipitous drop in gold output. War Production Board Limitation Order L-208, issued on October 8, caused the gold mines to be shut down.
1944	Gold production touched the lowest point since 1848.
1945	Order L-208 was lifted, effective July 1. Some of the bucket-line dredges resumed operations, but only a few important lode mines at Grass Valley, Alleghany, and Sutter Creek were reopened. Production increased slightly for 4 years.
1950	Gold output resumed its decline because of rising costs and depletion of dredging ground. Lode belt, was shut down.
1960	Gold output fell below \$5 million as the dredges continued to curtail operations.
1968	The U.S. Treasury suspended purchases of newly-mined gold. The free market price rose to \$44 an ounce early in 1969, falling by November to \$38.50, because of greater stability in international currencies.

Source:

Clark, W. B., 1970, Gold Districts of California: California Division of Mines and Geology, Bulletin 193, p. 5-7.

<u>TABLE 2</u> Principal Gold-Producing Districts within the Investigation Area

Mining District	riot County	Location	Geology and Mineralization Summary	Principal Mines and Estimated Gold Production	Historical Operations	Land Status	Recent Exploration Activity
			Sierra Nevada Province Mining Districts	Ing Districts			
Clear Creek	Kern	East-central Kern Counly; 26 miles east-noitheast of Bakersfield; 5 miles south of Bodifish.	Gold deposits are mostly confined to a quartz diorite intrusive body. Ore bodies consist of quartz veins up to 6 feet thick, and contain free gold and some sulfides.	Filday, Jackpot; Joe Walker, \$600,000; Porler; Rand group, \$125,000; Rochfort; Soullhern Cross; Washington. Estimated 35,000 oz. produced.	Discovered in 1863; declined during the 1880's; intermittently active for many years afterward.	Adjacent to U.S. Forest Service administrated lands	Inactive
Cove	Kern	Northeastern Kern County, between Kernville and Isabella, on the west side of Lake Isabella.	Ore within extensive vein systems consisting of quartz with finely dissentinated free gold, arsenophyrite, pyrite, chalcopyrite and galena.	The Big Blue Group; the Big Blue-Sumner Group; Lady Belle Group. Estimated 387,034 oz. produced.	Discovered in 1860; active until 1880's; Intermittently active Ihrough 1930's; active 1934 through 1943.	Adjacent to U.S. Forest Service administrated lands	Inaclive
Erskina Creek	Kern	38 miles northeast of Bakersfield, and south of Lake isabella.	Ore deposits consist of quartz veins containing free gold and varying amounts of sulfides.	Glen Olive, \$500,000; Iconoclast; Golden Bell; Laurel: Valley Vlew; Faust; King Solomon. Estlmated 24,189 oz. produced	Gold deposits were productive in the early 1890's and intermittently afterward.	Adjacent to U.S. Forest Service administrated lands	Inactive
Greenhorn Mountain	ntain Kern	28 miles northeast of Bakersfield.	Underlain by quartz diorile wilh several roof pendants comprised of Mesozolo or Paleozoic metamorphic rocks.	Greenhorn; Fremonl; Bradshaw; Black Gulch. Esllmaled 1,000 to 5,000 oz. produced.	Discovered in Greenhorn Creek in 1851; activity declined before 1890, since then minor prospecting.	Within U.S. Forest Service administrated lands	Inactive
Jawbone Canyon	yon Kern	Encompasses area between Emerald Mountain and the El Paso Mountains.	Most gold occurrences are in gold-bearing quartz stringers culling Cretaceous quartz monzonile.	Hub; Skyline; San Antonio. Estlinated 1,000 to 5,000 oz. produced.	Placer gold discovered in 1900. Lode gold developed in the 1930's.	Within or adjacent to U.S. Bureau of Land Management lands	Recent exploration
Kern River	Kern	On the Upper Kern River, belween Bakersfield and Bodlish.	Underlain by Mesozoic quariz diorlie and associaled apilio and pegmalilic dikes.	Greenhorn Caves Mine, \$60,000; Gem Mine, \$30,000. Eslimated 1,000 to 5,000 oz. produced.	Discovered at Greenhorn Creek In 1851. Early deposits worked in a short linte.	In U.S. Forest Service administrated lands	Inaclive
Keyesville	Kern	32 miles noutheast of Bakersfield, and 2 miles southwest of Isabelia Darn.	Gold deposits occur in a northeast trending bell 3 miles long that consists of narrow quartz stringers with fault gouge that contains free gold.	Bright Spot; High Grade; Homestake; Keyes, \$450,000; Keyesville Placer; Mammolh. \$500,000; Mooncastle; Nob Hill; Opportunity; Suntse; Virginia: Will Jean. Estimated 45,960 oz. produced.	Discovered in 1852; chief periods of mining were the 1850's, 1860's, 1860's, 1860's, 1860's, 1890's and 1909-1915. Some prospecting in 1930's, but itilie since.	Adjacent to U.S. Forest Service administrated lands	tnactive
Long Tom	Kern	Central Kern County, 23 miles notineast of Bakersfield and 10 miles south of Woody.	Underlain by quartz diorile with fracture zones containing small, gold-bearing quartz stringers with minor amounts of suffides.	Long Tom Mine, \$800,000-\$900,000. Estimated 43,541 oz. produced.	Lode gold discovered in 1860.	Adjacent to U.S. Forest Service administrated lands	Inactive
Loraine	Kern	Central Kern Counly, near the town of Paris-Loraine.	Underiain by a roof pendant of state and mica schist within quaitz diorle and granodiorite. There are numerous quartz veins containing free gold and sulfides.	Amalle, \$600,000; Barbarosa; Cowboy, \$600,000; Deerluurler; Ella; Ferris; Golden Cross; Golden Peak; New Deal; Zenda, 34,000 oz. Estlinated 92,055 oz. produced.	First prospected in 1850's; principal activity 1894 to 1912; active again in the 1920's and 1930's; intermittent prospecting since.	Adjacent to U.S. Forest Service administrated lands	Zenda Mine permilled, but lnaclive. Possible 100,000 oz. of gold reserve

# TABLE 2 Principal Gold-Producing Districts within the Investigation Area

Recent Exploration Activity	Inactive	Inactive	Inactive	- 1 - 54 - 4 - 277	Recent drilling has been conducted to evaluate a possible disseminated ore body	Limited primarily to dry placer occurrences	Inactive
Land Status	In U.S. Forest Service administrated lands	Adjacent to U.S. Forest Service administrated lands	Adjacent to U.S. Forest Service administrated lands		Near U.S. Bureau of Land Management Wilderness lands and China Lake Naval Weapons Center	Near U.S. Bureau of Land Management Wilderness lands	Near U.S. Bureau of Land Management
Historical Operations	Discovered in 1850's; principal periods of mining during 1870 to 1900, and early 1930's and 1940's.	Most gold in the area is from Pine Tree Mine, active from 1876 to 1907.	Discovered in 1853; mining continued until 1906 and there has been minor activity since.		First mined in 1890's, much activity early 1900's and 1930's, some work up until present time	Gold discovered in Goler Wash in 1893, numerous dry wash camps established soon afterward, minor prospecting continues.	Much activity 1890's, 1900's and 1930's, some activity since
Principal Mines and Estimated Gold Production	Amy; Blue Jay; Bright Star, \$600,000; Dearborn; Donnie; French; Gold Standard; Gwynne, \$770,000; Henry Ford; Hillop; Jeanette-Grant; Jerry; Little Joe; Lone Star; Mary Ellen; Startat; Shellenberger; Slmon; Surprise, Estimated 66,279 oz. produced.	Pine Tree Mine, \$250,000. Estimated 12,094 oz. produced.	Bald Mountain, \$200,000 to \$300,000; Eclipse No. 2; Josephine; Last Chance; Stencil. Estimated 36,284 oz. produced.	INING DISTRICTS	Arondo, \$200,000; Davenport; Mohawk Ruth, \$700,000+, Estimated 43,541 oz. produced.	Last Chance; Red Rock; Jawbone Cenyon; Summil Diggings. Eslimated 1,000 to 10,000 oz. produced.	Bellfower; Crown Cons.; Gold Bug; Lost Keys; Prize; Rademacher; Yellow Treasure. Estimated 1,000 to 10,000
Geology and Mineralization Summary	Underlain by Mesozoic graniile rocks with most gold deposits confined to a 2 mile wide belt consisting of gold-quartz veins in shear zones.	Largley underlain by Cretaceous granites. Some gold in the district has been produced from shallow dipping, gold-bearing quartz veins cutting the granites.	Underlain by Mesozolc granordiorite and small intrusive bodies of gabbro. A series of west-northwest trending quartz veins contain free gold and some pyrite.	BASIN AND RANGE PROVINCE MINING DISTRICTS	Gold-quartz veins and silicífied breccia In quartz monsonile and granodiorite.	Placer-mining district. Auriferous sand and gravel in washas and canyons. Gold is mostly fine.	Numerous thin gold-quariz veins in granite and schist. Veins often cut by dikes.
Location	East-central Kern County, near Claraville, 14 miles southeast of Bodlish.	East-central Kern County, 4 miles south of Tehachapi.	25 miles southeast of Porterville, in both southern Tulare and northern Kern Counties.		Southern Inyo County, 10 miles north of Trona.	Northeastern Kern County, 10 miles northwest Randsburg.	Northeastern Kern County, 5 miles south of Ridgecrest.
 County	Kern	Kern	Kern		Inyo	Kern	Kern
Mining District	Plufe Mountains	Tehachapi	White River		Argus	El Paso Mountains	Radamacher
Map Number	01	#	12		13	4	£

•

<u>TABLE 2</u> Principal Gold-Producing Districts within the Investigation Area

Recent Exploration Activity	Inaclive	Inactive		Inactive	Inactive	Inactive	Inactive
Land Status	Near China Lake Naval Weapons Center	Wilhin or near U.S. Bureau of Land Management Wilderness lands		Within or near U.S. Bureau of Land Management Wilderness lands	Within or near U.S. Bureau of Land Management Widerness lands and/or U.S. milltary reservation	Near Twentynine Palms Marine Corps Base and U.S. Bureau of Land Management	Within or near U.S. Bureau of Land Management Wilderness lands
Historical Operations		Intermittently prospected since the 1890's.		Discovered in 1855, and has been intermittently worked since.	Intermittently mined from 1900 to 1915.		
Principal Mines and Estimated Gold Production	Hafford Mine. Estimated 1,000 to 5,000 oz. produced.	Spangler; Stephens holding Mines; Saint Elmo Mine. Estimated 1,000 to 5,000 oz. produced.	NING DISTRICTS	Alvord Mine. Eslimated 5,000 to 20,000 oz. produced.	Cool Gardie Mining Company. Estimated 4,837 oz. produced.	Emerson; Los Padra. Estimated 1,000 to 10,000 oz. produced.	Fremont Peak Mine (Gateway Mine). Esilmated 10,000 to 25,000 oz. produced.
Geology and Mineralization Summary	Underlain by Cretaceous granile and Mesozole schist. Quartz veins contain small, but ifch gold- and silver bearing pockets, with abundant sulfides in areas.	Underlain by Mesozotc granitic rocks with west-striking gold-quartz veins.	MOJAVE DESERT PROVINCE MINING DISTRICTS	Underlain by Mesozoic granite and Paleozoic carbonates. Siliceous veins contain some sulfides, oxides, and gold.	Undertain by Mesozolc granites with localized basic intrusives. Placer deposits are contained within Quaternary alluvium that is in the axis of a broad valley.	Underlain by Mesozoic quartz monzonite infruded by basic bodies. Gold found in velus in small pendants of gneiss and granites near surface.	Underlain by Precambrian gnelss intruded by Cretaceous granites. Rhyolitic dikes are associated with the gold occurrences. Gold in quartz veins with pyrite and arsenopyrite.
Location	Northwestern San Bernardino and southern Inyo Countles.	Northwestern San Bernardino County, 10 miles northeast of Johannesburg.		Central San Bernardino County, 35 miles northeast of Daggett.	Western San Bernardino County, 15 miles northwest of Barstow.	Southern San Bernardino County, 25 miles northwest of Twentynine Palms.	18 miles southeast of the Randsburg district within San Bernardino County.
County	San Bernardino and Inyo	San Bernardino		San Bernardino	San Bernardino	San Bernardino	San Bernardino
Mining District	Slate Range	Spangler		Alvord	Coolgardie	Emerson Lake	Fremont Peak
Map	16	17		« <del>)                                     </del>	19	20	21

TABLE 2 Principal Gold-Producing Districts within the Investigation Area

Recent Exploration Activity	Recent drilling has occurred. Since then, the U.S. government has removed it from public entry, and it is part of Fort lowin military reservation	Inactive	There has been recent drilling	None other that the Soledad Mountain Project with 1.44 million 02.	Recent exploration to evaluate a possible gold-bearing porphyry copper
Land Status	Part of Fort Iwin military reservation	Within or near U.S. Bureau of Land Management Wilderness lands	Within or near U.S. Bureau of Land Management Wilderness lands	Private and U.S. Bureau of Land Management administered lands	Within or near U.S. Bureau of Land Management Witderness lands
Historical Operations	Aclive in 1915 to 1918, in the 1920's and again just before World War II.			Gold discovered on Standard Hill in 1894, considerable activity until 1910, major activity 1931-1941, some activity since, Tropico mine is an historical museum.	Named for Major General Ord of the U.S. Army, mining began in 1870 and confinued fivough the 1930s, there has been prospecting since.
Principal Mines and Estimaled Gold Production	No named mines. Estimated 16,000 to 20,000 oz. produced.	Olympus Mine. Estimated 1,000 to 5,000 oz. produced.	No named mines. Estimated 6,000 to 25,000 oz. produced.	Burton-Brite-Blank; Cactus Gold, \$5,000,000+; Elephan, \$200,000+; Excelsior; Golden Queen, \$10,000,000+; Middle Butte, \$150,000; Standard group, \$3,500,000; Tropico, 114,000 ounces; Wegman; Yellow Dog, 5,800+ oz. Estimated 2.486 million oz. of ultimate production.	Azucar; Black Butte; Cumberland; Elsle; Gold Banner; Gold Peak; Grandvlew; Lucky Strike; Ord Estimated 1,000 to 10,000 oz. produced.
Geology and Mineralization Sumnary	Underlain by Mesozolc granites and large Paleozolc carbonates and siliceous shates. Gold in shallow quartz veins.	Undertain by Mesozolc granites intruded by Miccene andesitic volcanics and Tertiary hypabyssal intrusives. Quartz veins contain free gold.	Cretaceous granites intrude Mesozoic metamorphic rocks. Dikes and irregular bodies of rhyodacite to rhyolite intrude these older rocks.	Ore deposits associated with five prominences, Soledad Mountain being most important. Extensive gold- and silver-bearing zones occur in breccia in riyolite. Pyrite, galena, cerargyrite and argentite present. Some of the ore was rich.	Numerous gold-quartz veins with copper and silver are found in granitic rocks that are associated with dikes.
Location	Northwestern San Bernardino County 35 miles north of Barstow.	Within the Paradise Mountains, 15 miles north of Barstow.	8 miles southeast of Kramer Junction in wastern San Bernardino County.	Southeastern Kern County, south of Mojave.	West-central San Bernardino County, 20 miles southeast of Barstow.
County	San Bernardino	San Bernardino	San Bernardino	Kern	San Bernardino
Mining District	Goldstone	Grapevine	Kramer Hills	Mojave- Rosamond	Ord
Map Number	22	23	24	25	26

TABLE 2 Principal Gold-Producing Districts within the Investigation Area

Recent Exploration Activity	VB	None other than to support the ongoing Glamis Gold Ltd.	1.25	Νθ	М	N.
Expl Ac	Inactive	None off than to support to ongoing Glamis G Ltd.		Inactive	Inactive	Inactive
Land Status	Within or near U.S. Bureau of Land Management Wilderness lands	Within or near U.S. Bureau of Land Management Wilderness lands		Adjacent to U.S. Forest Service administrated lands	Within U.S. Forest Service administrated lands	Within U.S. Forest Service administrated lands
Historical Operations	Active during 1880's, early 1900's, and again in 1930's.	Discovered at Goler Wash in 1883 led to 'rush' in El Paso Mountains and here, large scale gold mining after 1919, much activity 1890's. Tungstan mined during the wars, present prospecting and development work.		Placer gold mined as early as 1834. Lode mining began in 1870's; productive until 1900, some mines active in 1930's and early 1940's. Intermittent prospecting since.	Old placer district; recent sand/gravel operations.	Placer gold found as early as 1800. Rose Mine active in 1860 and considerable activity in the 1890's and early 1900's. Dobte Mine was active again in the 1930's and 1940's.
Principal Mines and Estimated Gold Production	Apex; Branch; Carbonate; Dents Grandview Lode; Gold Bullion; Gold King; Oro Grande I and II; Sidewinder; Western. Estimated 1,000 to 5,000 oz. produced.	Baltic; Big Dike, \$200,000; Big Gold, \$500,000; Black Hawk, \$700,000; Buckboard, \$500,000; Butte, \$2,000,000; King Solomon, \$500,000; Little Butte, \$400,000; Sunshine, \$1,000,000; Kelly Silver Mine. Estimated 1.767 to 1.867 million oz. of uttimate recoverable gold.	MINING DISTRICTS	Buena Esperanza; Governor (New York), \$1.5 million; Helene; Hi-Grade; Red Rover, \$550,000; Puritan. Estimated 99,177 oz. produced.	No named mines. Estimated 1,000 to 10,000 oz. produced.	Christie; Doble, \$250,000 to \$300,000; Erwin; Gem; Gold Hill; Hollie Ann; Lester, Log Cabin; Rose, \$450,000 to \$600,000; and Stewart. Estimated 43,511 oz. produced.
Geology and Mineralization Summary	Underlain by schist, quartzite, limestone, dacite, rhyolite, fatite, and quartz monzonite. Most gold is from narrow quartz veins and oxidized zones near the surface.	Gotd-silver-tungsten district. Also a placer district. Silicified breccia and veins occur in fron-stained mica schist. Tungsten veins occur in quartz monzonite.	TRANSVERSE RANGE PROVINCE MINING DISTRICTS	Underlain by Mesozolc quartz diorite, diorite and Precambrian schist. Gold deposits are in gold-quartz veins in faulted and fractured zones.	Underlain by Precambrian gnelss and granites upon which Quaternary alluvial deposits rest. Gold placers are produced from the alluvial deposits.	Underlain by Mesozoic mica schist and quartile Paleozoic carbonates, and Cretaceous graniles. Lode gold within irregular shapes quartz-calcite veins with free gold, scheelite, and sulfides.
Location	Near the town of Oro Granda, 5 miles north of Victorville.	On Kern-San Bernardino County line at Randsburg.		North-central Los Angeles County, 20 miles north of Los Angeles.	On the south flank of the San Gabriel Mountains, northeast of Los Angeles.	Northern portion of San Bernardino Mountains, east of Baldwin Lake.
County	San Bernardino	Kern and San Bernardino		Los Angeles	Los Angeles	San Bernardino
Mining District	Oro Grande	Randsburg		Acton	Azusa-Tujunga	Baldwin Lake
Map Number	27	28		29	30	23

# TABLE 2 Principal Gold-Producing Districts within the investigation Area

	<del></del>					
Recent Exploration Activity	Some recent exploration to evaluate potential low-grade disseminated gold deposits has occurred. No announced discovery	Inactive	Inactive	Inaclive	Siskon Gold has proven and probable reserves of 300,000 oz. and resource base of 540,000 oz.	Inactive
Land Status	Within or near U.S. Bureau of Land Management Wilderness lands	Within U.S. Forest Service administrated lands	Within U.S. Forest Service administrated land	Within U.S. Forest Service administrated lands	Within U.S. Forest Service Wilderness lands	Within U.S. Forest Service administrated lands
Historical Operations	The district was organized in 1870; the Santa Fe group was active in the 1890's, but activity was minor in the early 1900's. Santa Fe was reopened and operated from 1921 to 1940.	First placer mined in the 1840's, the Frazier Mountain Mine was opened in 1865. Minor work has been done since.	Placer gold discovered in 1860. Il was extensively worked for a few years, with Intermittent work since.	Placer mining started in the 1890's.	Placer mining started in the 1840's. Lode gold mining occurred from 1903 to 1908 and then again in the 1930's.	Lode and placer occurrences.
Principal Mines and Estimated Gold Production	Santa Fe Group; Lester. Estimated 145,000 oz. produced.	Bunker Hill; Esperanza; Fairview; Frazier, \$1 million; Gold Dust; Harls; Hess; Maule; Sibert; While Mule. Estimated 48,379 oz. produced.	Wright; Harvey K; Osborne; Gold Button; Ozier; Green Lead. Eslimated 102,171 oz. produced.	Eslimated 1,000 to 10,000 oz. produced.	Allison, \$50,000; Baldora; Big Horn, \$40,000; Eagle; Gold Dollar; Holly; Heaton; Nalive Son; Stanley; Zanteson, Estimated total gold resource of 986, 756 oz. produced.	Los Padre; Mount Gleason. Estimated 1,000 to 10,000 oz. produced.
Geology and Mineralization Summary	Underlain by Cretaceous granite, Mesozoic schist and gneiss, and Pateozoic limestone. A gold ore, hemalite-bearing gouge occurs along a mineralized zone along a thrust-fault plane.	Underlain by granile, granodiorile, gneiss, and schist. Gold-quartz veins strike north and occur in shear zones within gneiss and schist.	Underlain by Cretaceous quartz monzonile, surrounded by Paleozolc carbonates and metasediments. There is placer gold within the alluvium and lode gold in thin shear and fracture zones willth the granitic rocks.	Underlain by Cretaceous Pelona Schist and locally intruded by Terilary granodiorite.	Underlain by Mesozolc Pelona Schist and Mylonila of the Vincent Thrust that has been infruded by Terfary granodiorite. Gold quartz veins occur in the schist and gneiss adjacent to the Vincent Thrust Fault.	Underlain by mesozolo granite that surrounds small pendants of schist. Lode gold within granite and some metamorphic rocks.
l.ocation	Southwestern San Bernardino County, 30 miles northeast of the city of San Bernardino.	Northeast corner of Ventura County.	North elde of San Bernardino Mounlains, just north of Big Bear Lake.	Southwestern San Bernardino County In the eastern San Gabriel Mountains.	Within the San Gabriel Mountains of eastern Los Angeles County.	Northern Los Angeles County, 15 miles north of Pasadena.
County	San Bernardino	Ventura	San Bernardino	San Bernardino	San Bernardino	Los Angeles
Mining District	Błack Hawk	Frazler Mountain	Holcomb Valley	Lylle Creek	Mount Baldy	Mount Gleason
Map Number	33	33	34	35	98	37

07330010.311

<u>TABLE 2</u> Principal Gold-Producing Districts within the Investigation Area

							1	
Map Number	Mining District	County	Location	Geology and Mineralization Summary	Principal Mines and Estimated Gold Production	Historical Operations	Land Status	Recent Exploration Activity
38	Neenach	Los Angeles	Northern Los Angeles County, 20 miles west-northwest of Lancaster.	Underlain by Mesozoic quartz monzonite that is overlain by Tertiary sediments. Gold deposits occur in a contact zone between metasediments and quartz monzonite.	Riviera or Rogers-Gentry group. Estimated 9675 oz. produced.	Discovered in 1899 with bulk of production in 1935-1938. Intermittent mining since.	Private and U.S. Forest Service administrated lands	Inactive
39	Pira	Vanlura	Northeastern Ventura County in the vicinity of Piru Creek.	Underlain by Precambrian gnelss. Placer gold deposits are in and adjacent to the upper part of Piru Creek.	Castalc, \$160,000. Estimated 7,740 oz. produced.	Placer mining began in 1841. Small scale placer mining continued through the 1890's and again in the 1920's and	Wilhin U.S. Forest Service administrated lands	Inactive
40	Saugus	Los Angeles	Western San Gabriel Mountains in Los Angeles County near the towns of Newhall and Saugus.	Underlain by Recent and older Quaternary altivium deposits which contain gold-bearing placer deposits.	No named mines. Estimated 4,837 oz. produced.	Discovered in the early 1800's, intermittently worked since.	Within U.S. Forest Service administrated lands	Inactive

### GROUNDWATER SUPPLY EVALUATION SOLEDAD MOUNTAIN PROJECT

December 1996

#### Prepared for:

Golden Queen Mining Company 2997 Desert Street, Suite 4 Post Office Box 878 Rosamond, California 93560-0878

#### Prepared by:

WZI Inc. 4700 Stockdale Highway, Suite 120 Bakersfield, California 93309



James Allen Waggoner

Certified Engineering Geologist State of California No. 1818

Expiration Date: 03/31/99

#### TABLE OF CONTENTS

	<u>P</u>	<u>age</u>
1.	INTRODUCTION	1
II.	EXISTING WELLS	1
Ш.	AQUIFER CHARACTERISTICS	2
IV.	WATER PRODUCTION WELL PW #1	4
V.	PROJECTED WATER AVAILABILITY	5
VI.	IMPACT ON NEARBY WELLS	6
VII.	GROUNDWATER/WATER SUPPLY UNDER ALTERNATIVE SCENARIOS	7 8
VIII.	REFERENCES	9

#### **EXHIBITS**

Exhibit 1	Summary of Existing Well Data
Exhibit 2	Water Well Location Map
Exhibit 3	Groundwater Elevation - 1990
Exhibit 4	Hydrograph Well #12K1, T10N, R12W
Exhibit 5	Hydrograph Well #13H1, T10N, R12W
Exhibit 6	Hydrograph Well #20C1, T10N, R12W
Exhibit 7	Rainfall at Mojave
Exhibit 8	Hydrograph Jameson Ranch Well #26J1
Exhibit 9	Groundwater Elevation - 1972
Exhibit 10	Actual Groundwater Level vs Projected Level Well #26J1
Exhibit 11	AQUIX - Actual vs Projected Drawdown Well PW#1
Exhibit 12	Multiple-Rate Testing Analysis
Exhibit 13	Pressure Wave Calculated Actual vs Projected Drawdown Well #PW 1
Exhibit 14	Pressure Wave Projected Drawdown vs Time and Distance
	Well #PW 1
Exhibit 15	Drawdown vs Time Golden Queen Well(s) - 750 gpm
Exhibit 16	Drawdown vs Time Golden Queen Well(s) - 825 gpm
Exhibit 17	Drawdown vs Time Golden Queen Well(s) - 675 gpm

#### **APPENDIX**

Appendix A Definition of Terms

#### I. INTRODUCTION

This report is a summary of an evaluation of the groundwater supply potential of the water well(s) drilled and proposed to be utilized by Golden Queen Mining Company for supplying up to 750 gallons per minute (gpm) of water during the open pit mining and heap leach gold processing operation proposed on Soledad Mountain, in eastern Kern County, near the town of Mojave. It is anticipated that an estimated maximum mining rate of 6 million tons per year will require the maximum water use rate of 750 gpm for ten years. The evaluation includes review of several available reports, data previously prepared for Golden Queen, and test data gathered from the first water supply well drilled and completed in October, 1996.

#### II. EXISTING WELLS

Wells in the immediate area of interest just north of Soledad Mountain generally have been drilled for the purpose of supplying residential water and thus are completed with small pumps necessary to supply only 20 to 40 gallons per minute. Nearby wells have been reviewed for aquifer characteristics based on available well log information and reported groundwater levels. A summary of existing water well data is included as Exhibit 1, and well locations are shown in Exhibit 2.

A well, known as the Gillis well, located 1 to 1.5 miles west of the proposed water wells project in Section 36, Township 11 North, Range 13 West, reportedly tested at rates of 750 to 900 gpm. This well is shown as well #25 on the well location map, and is located in an area where the alluvium is greater than 630 feet thick with thickness of the unconfined aquifer between 250 and 350 feet. Other wells a few miles north and west of Soledad Mountain reportedly tested at rates of 300 gpm or more. Mojave Public Utility District wells (wells #31 and #32) in Section 22, Township 11 North, Range 12 West tested at rates from 250 to 1,000 gpm.

The groundwater elevation map constructed from 1990 groundwater data, Exhibit 3, shows a gradient generally from west to east, with a southeast gradient on the north side of the project site. Hydrographs were prepared on a number of wells to show the change in groundwater elevation over time (Exhibits 4 - 6). The groundwater table has dropped one-quarter to one-half a foot per year over the last 18 years. The groundwater table appears to be slightly impacted by the rainfall with periods of higher rainfall showing minimal drawdown and drought periods exhibiting higher drawdown. Exhibit 7 shows rainfall totals by year at Mojave.

Water wells in the Jameson Ranch area, located approximately 4 miles northeast of Soledad Mountain, were used to provide water for alfalfa farming from approximately 1959 through 1971. Information on the Jameson Ranch wells was obtained from "Perennial Yield Assessment of Chaffee Subunit in the Fremont Valley Groundwater Basin". The wells are reported to have had average withdrawal rates of approximately 2500 gallons per minute during the time they were in operation. Groundwater elevations for well #26J1 (ref. 34 on Exhibit 1) located in Section 26, Township 11 North, Range 12 West in the Jameson Ranch Area from 1955 through 1987 are plotted versus time in a hydrograph on Exhibit 8.

#### III. AQUIFER CHARACTERISTICS

Actual groundwater elevations over time can be used along with known parameters to determine aquifer characteristics for evaluation of a projected well performance. The Jameson Ranch well was used as representative of the aquifer because it had similar reservoir thickness and because it had good records with both drawdown and recovery periods.

The Jameson Ranch well #26J1 is located approximately 6200 feet from the center of the area affected by the pumping as shown in Exhibit 9 prepared by Slade (1994) using 1970 groundwater levels. General aquifer characteristics were calculated based on

<sup>&</sup>lt;sup>1</sup> Slade, R.C., 1994, Perennial Yield Assessment of Chaffee Subunit in the Fremont Valley Groundwater Basin, Richard C. Slade & Associates, Report.

analysis of the drawdown and recovery of the groundwater table from 1959 to 1987. Starting assumptions used in this analysis include porosity of the formation equal to 30 percent, permeability 5.0 darcies, water viscosity 0.9 centipoise, formation compressibility 5.0 x 10<sup>-5</sup>, aquifer thickness 190 feet. These values were used in the following equations relating to producing rate, porosity, permeability, thickness, and compressibility to estimate drawdown and rebound at points in time equivalent to the known measurements. By using an iterative process (changing one variable to see the effect then changing another), it is possible to determine a set of parameters which approximate the aquifer characteristics. The parameters used in this analysis are listed after the equations. A list of terms used in the equation is attached as Appendix A. Using the two equations<sup>2</sup>,

 $r_{\theta} = \sqrt{\frac{kt}{0.04 \mu c \varphi}}$ 

and

$$p_{\theta} - p = \frac{q_{\mu}B_{o}\ln\frac{r_{\theta}}{r}}{7.08kh}$$

Known and derived parameters:

k = permeability, 5.4 darcies

t = time, years

 $\mu = \text{viscosity}, 0.9 \text{ cp}$ 

 $c = compressibility, 5.0 \times 10^{-5}$ 

 $\phi$  = porosity, 0.32

q = flow rate, 1500 gpm net pumping rate

 $B_0$  = formation volume factor, 1.0

r = radial distance at the time step analyzed

h = aquifer thickness, 175 feet

p = pressure, psi (aquifer pressure at the

pump depth)

<sup>&</sup>lt;sup>2</sup> Craft, B.C., and Hawkins, M.F., 1959, "Applied Petroleum Reservoir Engineering," pp. 284 & 289, Prentice-Hall Inc., Englewood Cliffs, NJ.

it is possible to compare the actual depth to groundwater information against the calculated depth over time and thereby determine the combination of aquifer parameters which best match the historical data. The known and derived parameters shown above were used in the final analysis. Exhibit 10 shows the groundwater level versus time for the actual data as well as a plot for the projected data.

#### IV. WATER PRODUCTION WELL PW #1

In October, 1996, Golden Queen drilled a water well, PW #1, in Section 31, Township 11 North, Range 12 West to a depth of 300 feet. The water level just prior to a pump test was measured at 176.6 feet below the ground surface. On October 11, 1996 a step rate test was performed. The well was pumped at specified rates from 510 gpm to 700 gpm in four 20 minute intervals. Water level readings were taken at regular intervals and each step was allowed to stabilize prior to changing to the next rate. These data were input into the groundwater modeling program AQUIX-4S to determine aquifer characteristics. Using the Neuman equations³ for calculating aquifer characteristics of an unconfined homogenous aquifer, a transmissivity of 2000 ft²/day was established by an iterative process. Based on a saturated aquifer thickness of 140 feet, the permeability was calculated to be 5.87 darcies which compares reasonably well with the Jameson Ranch derived permeability of 5.4 darcies. Exhibit 11 shows the actual versus the expected drawdown over time for this test.

Analysis of the pump test was also performed using a general multiple rate test analytical technique<sup>4</sup> which compares the pressure (equivalent to water depth) at a given time to the corresponding production rate to obtain a straight line whose slope is used to determine the reservoir permeability and reservoir height variables. The following terms are plotted:

<sup>&</sup>lt;sup>3</sup> Neuman, S.P., 1975, Analysis of pumping test data from anisotropic unconfined aquifers considering delayed gravity response: Water Resources Research, v. 11, N. 2, pp 329-342.

<sup>&</sup>lt;sup>4</sup> Robert C. Earlougher, Jr., 1977, "Advances in Well Test Analysis," pp. 31+, Millet the Printer, Inc., Dallas, Texas.

$$\frac{p_{i}-p_{wt}}{q_{N}} vs \sum_{j} \left[ \frac{(q_{j}-q_{j-1})}{q_{N}} \log(t-t_{j-1}) \right]$$

A list of terms used in the equation is attached as Appendix A. The slope of a line drawn through the points generated at the various times and flow rates can be used in the following equation to determine the permeability of the formation.

$$k = \frac{162.6B\mu}{m^{7}h}$$

Exhibit 12 shows this plot, where two different slopes are apparent. The early time data results in a lower permeability (1.7 darcies) compared to the later data which calculates an estimate of 5.2 darcies. This difference may be explained by near wellbore cleanup which may have occurred in the early time at the lower flow rates.

Applying the same equations used for analysis of the Jameson Ranch aquifer drawdown and recovery data to the pump test data and allowing for the multiple production rates, a plot was made showing the actual water level from the test as well as the projected level resulting from various combinations of input parameters. The best fit evaluated used 5.4 darcies of permeability and 135 feet of interval. Since the screened interval of PW #1 is approximately 115 feet, the correlation is good. Exhibit 13 shows the results of this analysis.

#### V. PROJECTED WATER AVAILABILITY

Golden Queen projects needing water for operations for up to 10 years at an approximate average rate of 750 gpm. Long term aquifer response was evaluated using the aquifer characteristics obtained above and applying them to well PW #1. Drawdown at the well was projected for either one, two, or three wells separated by 1,000 feet with each well providing an equal proportion of the 750 gpm total. Exhibit 14 shows the drawdown at different distances from the well at different points in time assuming the

aquifer is infinite. This is a conservative calculation which assumes a recharge and perennial yield of zero.

Assuming the thickness of the aquifer approximates the well penetration of the saturated zone of 135 feet at the location of PW #1, a single well producing 750 gallons per minute would have a drawdown of 121 feet in only 90 days. This rate could not be sustained because the fluid level would be at the bottom of the well. If all three wells are operated at 250 gallons per minute each, the drawdown is 64 feet in 90 days and reaches 83 feet in 10 years. Exhibit 15 shows the drawdown versus time at a center well for one, two, or three wells. Thus, it appears likely that three wells will be required, which are sufficient to provide enough water throughout the entire project life.

#### VI. IMPACT ON NEARBY WELLS

The nearest active well (Well #11) is located in Section 12, Township 11 North, Range 12 West and is approximately 3,700 feet west of the water supply well PW #1. It is a domestic supply well and tested 40 gpm, the capacity of the installed pump. At Well #11, the depth to water is 215 feet and total depth is 350 feet, making the effective thickness of the water bearing formation 135 feet. Drawdown based on analysis of the Jameson Ranch area as well as the results from the Golden Queen well (PW #1) can be calculated at this well. Conservatively, the impact on Well #11 of producing 750 gpm from the Golden Queen wells would be to increase its drawdown by 20 feet initially, increasing to 39 feet after 10 years. The greatest drawdown will occur initially but will decrease to approximately 1.5 feet per year after the first year. While this may require lowering the pump, the withdrawal rate should not be impacted. Increased pumping costs associated with a worst case groundwater elevation could be approximately \$0.025 per 1000 gallons. It is anticipated that drawdown may actually be less than calculated if aquifer recharge is taken into account.

07330010.233 6

By project design, water levels in Golden Queen's water production wells and existing monitoring wells will be monitored annually to determine impacts from the pumping and/or water table fluctuations. Although total annual withdrawal and recharge rates from the basin are unavailable, it is considered unlikely that an additional 750 gpm withdrawal will have a significant impact on the water balance in the basin. Even if this represented a 50% increase in basin withdrawals, the indicated trend of the water table would only increase from one-half foot per year to three-quarters foot per year, or 15 feet in 20 years.

#### VII. GROUNDWATER/WATER SUPPLY UNDER ALTERNATIVE SCENARIOS

The groundwater usage requirements for Golden Queen and impacts upon the aquifer and surrounding wells will vary depending upon the ore mining and processing rate. Water requirements for the agglomeration and leaching processes vary in direct proportion to the quantity of ore processed. Water used for dust control on the roads and within the crushing process is more closely related to the number of operating hours.

Increased Mining & Processing Rates - Under this scenario, mining and processing rates would increase by 20%. This alternative would require water to be pumped from wells at higher rates, but for a shorter time period than the Proposed Action. The cumulative project requirements for water over the life of the project would be approximately 8% less than the Proposed Action.

The estimated well pumping rate for this alternative is 825 gallons per minute with a project life of 8.33 years to mine and process the ore. Exhibit 16 shows the drawdown versus time at the central well for one, two, or three wells pumping a combined total of 825 gallons per minute. The maximum projected drawdown at the producing wells would be 90 feet which is about 9% greater than the maximum projected under the Proposed Action which is a negative short term impact. The long term impact would be slightly positive as a result of the lower cumulative water requirement.

Decreased Mining and Processing Rates - Under this scenario, mining and processing rates would decrease by 20%. This alternative would require water to be pumped from wells at lower rates, but for a longer time period than the Proposed Action. The cumulative project requirements for water over the life of the project would be approximately 12% more than the Proposed Action.

The estimated well pumping rate for this alternative is 675 gallons per minute with a project life of 12.5 years to mine and process the ore. Exhibit 17 shows the drawdown versus time at the central well for one, two, or three wells pumping a combined total of 675 gallons per minute. The maximum projected drawdown at the water supply wells would be 76 feet which is about 9% less than the maximum projected under the Proposed Action which is a positive short term impact. The long term impact would be slightly negative as a result of the higher cumulative water requirement, but still less than significant.

Reduced Project Size - This alternative is a reduction of 70% from the Proposed Action in the amount of ore mined from 60 million tons to 17 million tons. This alternative would require water to be pumped from wells at the same rates as the Proposed Action, but for a shorter time period. The cumulative project requirements for water over the life of the project under this scenario are 70 percent less than the Proposed Action because of the much shorter project life.

The estimated well pumping rate for this alternative is 750 gallons per minute with a project life of 3 years to mine and process the ore. The drawdown versus time will be the same as under the Proposed Action with a much shorter life and therefore a lower cumulative drawdown. The long term impact would be positive as a result of the much lower cumulative water requirement.

#### VIII. REFERENCES

- Craft, B.C. and Hawkins, M.F., 1959, "Applied Petroleum Reservoir Engineering," pp. 284 & 289, Prentice-Hall Inc., Englewood Cliffs, NJ.
- Earlougher, Robert C., Jr., 1977, "Advances in Well Test Analysis," pp. 31+, Millet the Printer, Inc., Dallas, Texas.
- EnviroTools Ltd, 1993, "User's Manual for AQUIX-4S", Evergreen, Colorado.
- Neuman, S.P., 1975, "Analysis of Pumping Test Data from Anisotropic Unconfined Aquifers Considering Delayed Gravity Response": Water Resources Research, v. 11, N. 2, pp 329-342.
- Slade, R.C., 1994, Perennial Yield Assessment of Chaffee Subunit in the Fremont Valley Groundwater Basin, Richard C. Slade & Associates, Report.

**EXHIBITS** 



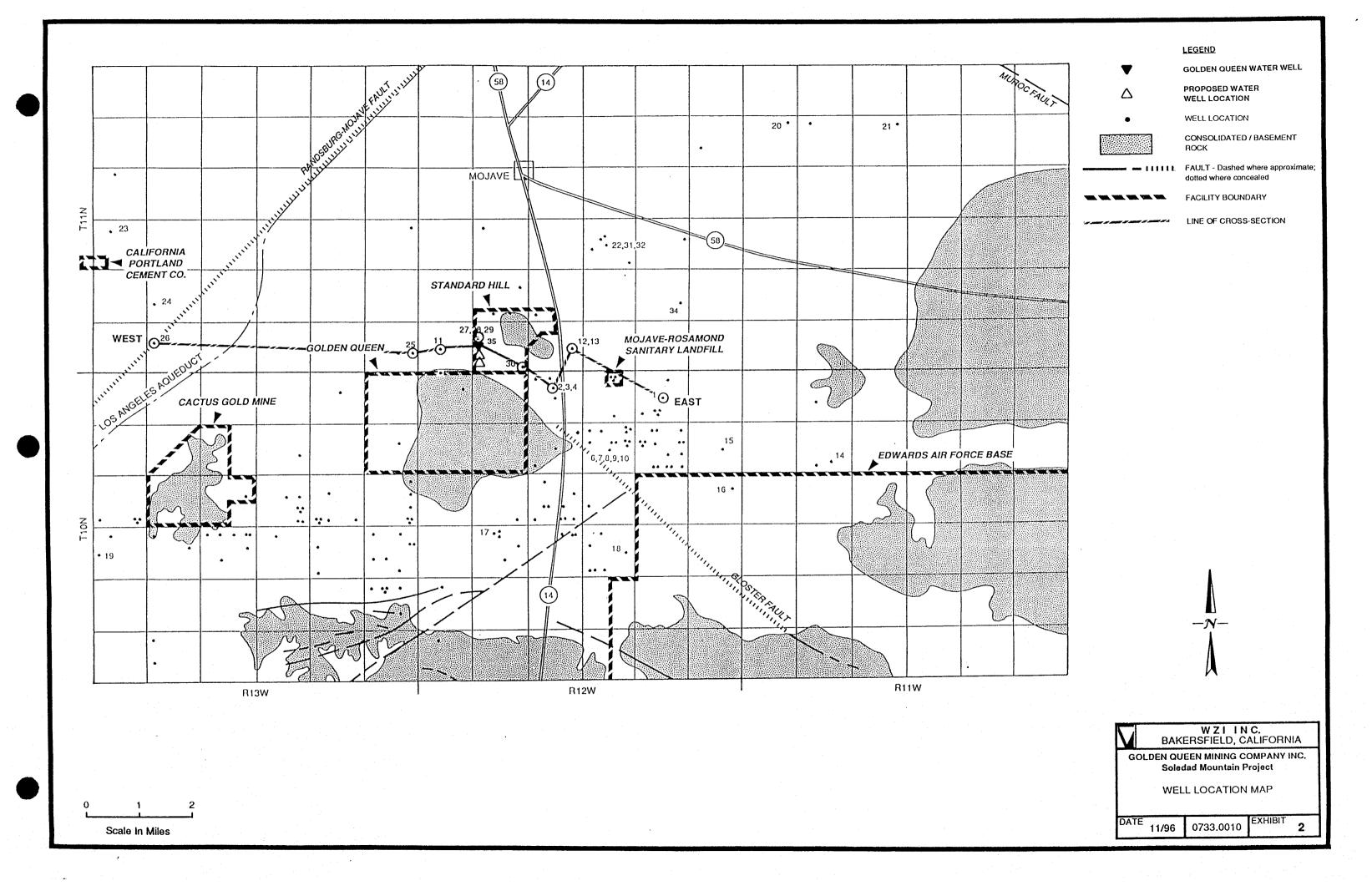
# SUMMARY OF EXISTING WATER WELL DATA

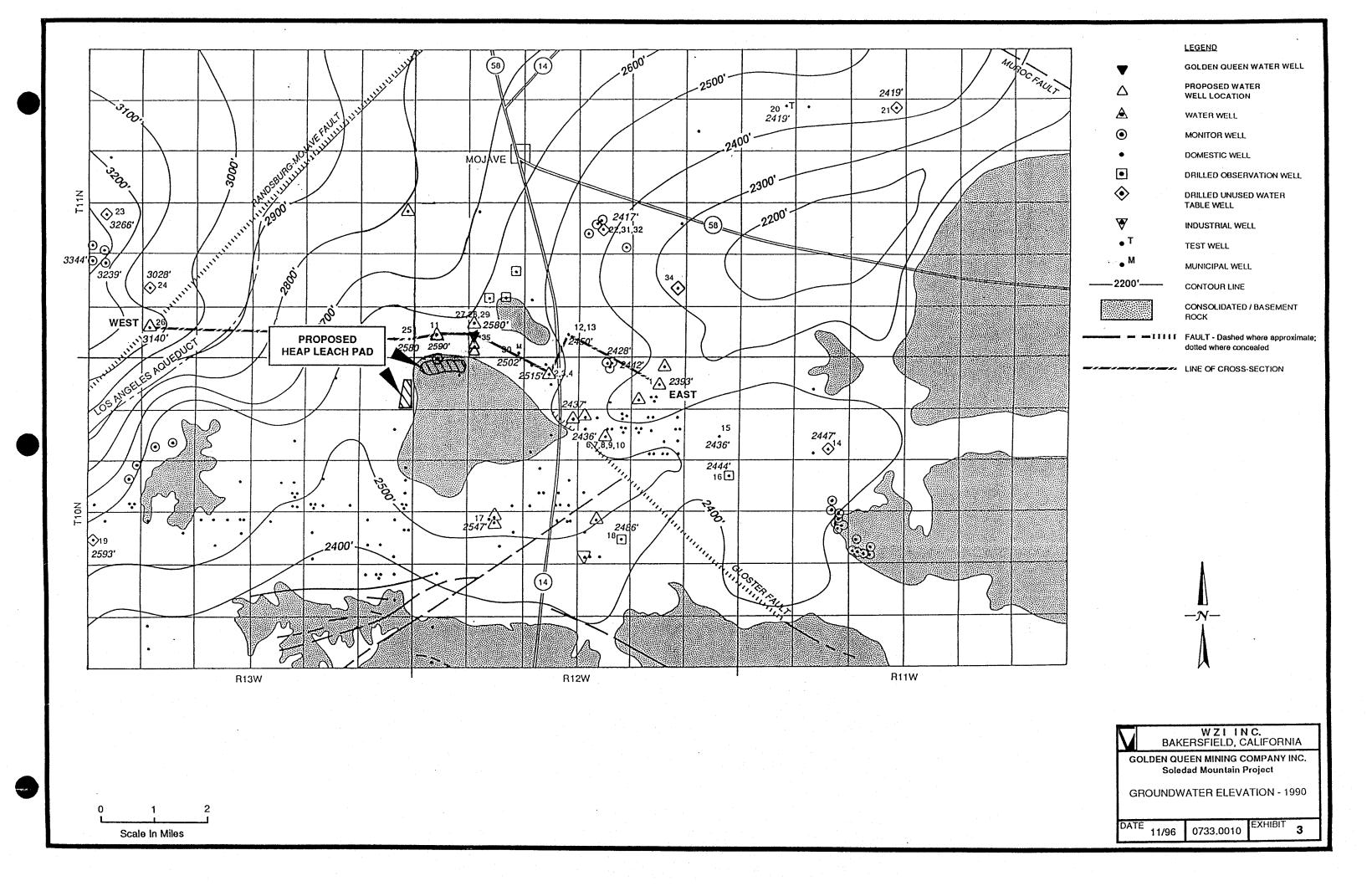
		TOTAL	DEPTH	REPORTED	1
		DEPTH	TO WATER	YIELD	
REF NO.	LOCATION	(FT)	(FT)	(GPM)	COMMENTS
1	T10N, R12W, SEC 2	257	187		TERMINATED ON "GRANITE"
2	T10N, R12W, SEC 4	340	135		TERMINATED ON "HARD ROCK"
3	T10N, R12W, SEC 4	275	175	3	
4	T10N, R12W, SEC 4	222	186	1	TERMINATED ON "HARD ROCK"
5	T10N, R12W, SEC 9	238	163	6	ALLUVIUM TOTAL DEPTH
6	T10N, R12W, SEC 10	200	87	30	ALLUVIUM TOTAL DEPTH
7	T10N, R12W, SEC 10	204	93	35	ALLUVIUM TOTAL DEPTH
8	T10N, R12W, SEC 10	202	93	35	
9	T10N, R12W, SEC 10	200	92	30	
10	T10N, R12W, SEC 10	200	85	25	
11	T11N, R12W, SEC 31	350	215	40	PUMP LIMITATION
12	T11N, R12W, SEC 33	240	175	FAIR	YIELD REPORTED AS "FAIR"
13	T11N, R12W, SEC 33	252	190		TERMINATED IN "BEDROCK"
14	T10N, R11W, SEC 8	280	58		
15	T10N, R12W, SEC 12	224	84		
16	T10N, R12W, SEC 13	185	60		
17	T10N, R12W, SEC 20		107		
18	T10N, R12W, SEC 22	242	43		
19	T10N, R13W, SEC 19	770	317		
20	T11N, R11W, SEC 7	414	209	<u> </u>	
21	T11N, R11W, SEC 9	422	131		IN ALLUVIUM
22	T11N, R12W, SEC 22	350	247		
23	T11N, R13W, SEC 19	430	311		
24	T11N, R13W, SEC 29	749	307		IN ALLUVIUM
25	T11N, R13W, SEC 36 .	630	280 - 380	750	ALLUVIUM TOTAL DEPTH
26	T11N, R13W, SEC 32	300	180	<u> </u>	TOP 50 FEET ALLUVIUM
27	T11N, R12W, SEC 32	300		40	
28	T11N, R12W, SEC 32	265	180	40	
29	T11N, R12W, SEC 32	1	176	<u> </u>	
30	T11N, R12W, SEC 32	245	188		1,40,4475,011,0,34511
31	T11N, R12W, SEC 22	350	260	250	MOJAVE P.U.D. WELL
32	T11N, R12W, SEC 22	348	270	<u> </u>	1*ROCK* AT TOTAL DEPTH
33	T11N, R12W, SEC 22	395	223	1000	MOJAVE P.U.D. WELL
34	T11N, R12W, SEC 26	230		200	FORMER JAMESON RANCH IRRIGATION WELL
35	T11N, R12W, SEC 32	300	177	700	NEW GOLDEN QUEEN WATER WELL

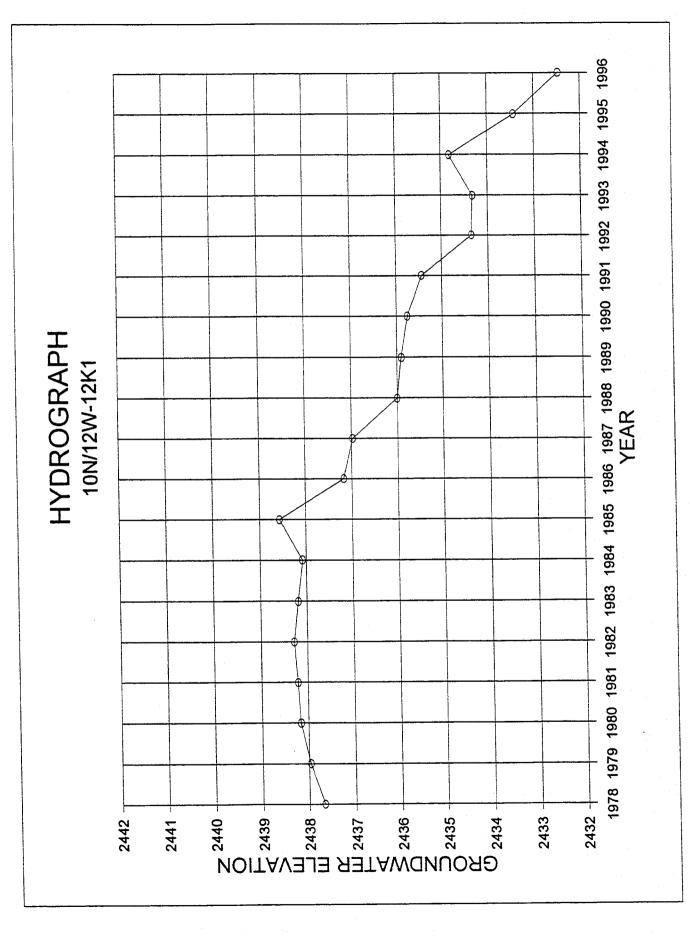
REVISED FROM WATER WASTE AND LAND, INC., 1990, HYDROLOGY STUDY SUMMARY FOR THE SOLEDAD MOUNTAIN PROJECT.

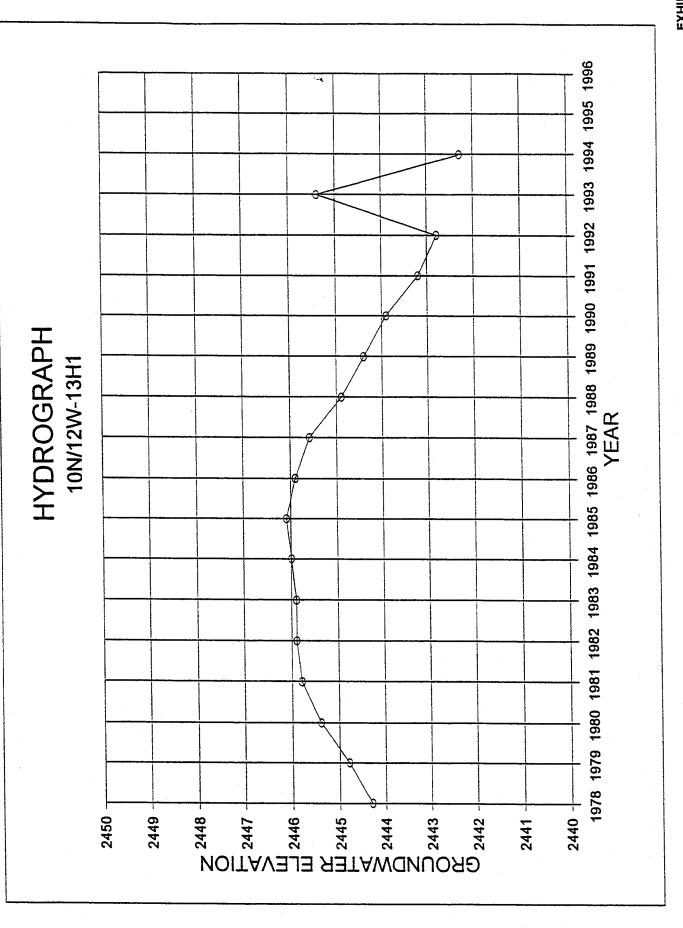
FACUENTS/GOLDQUEN/WELLINFO.WQ2

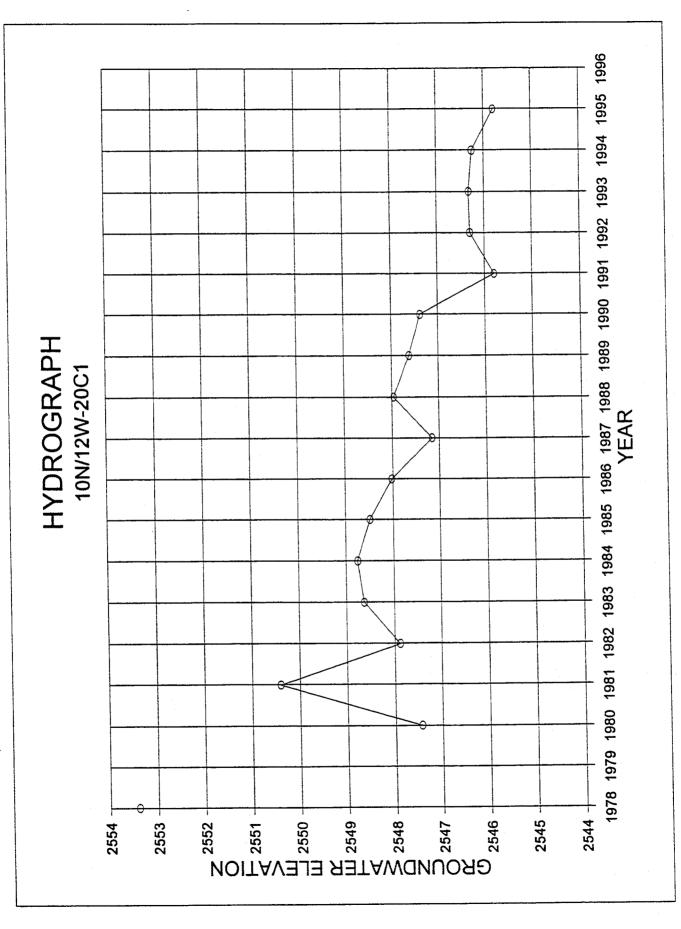
BCJ 11/20/96

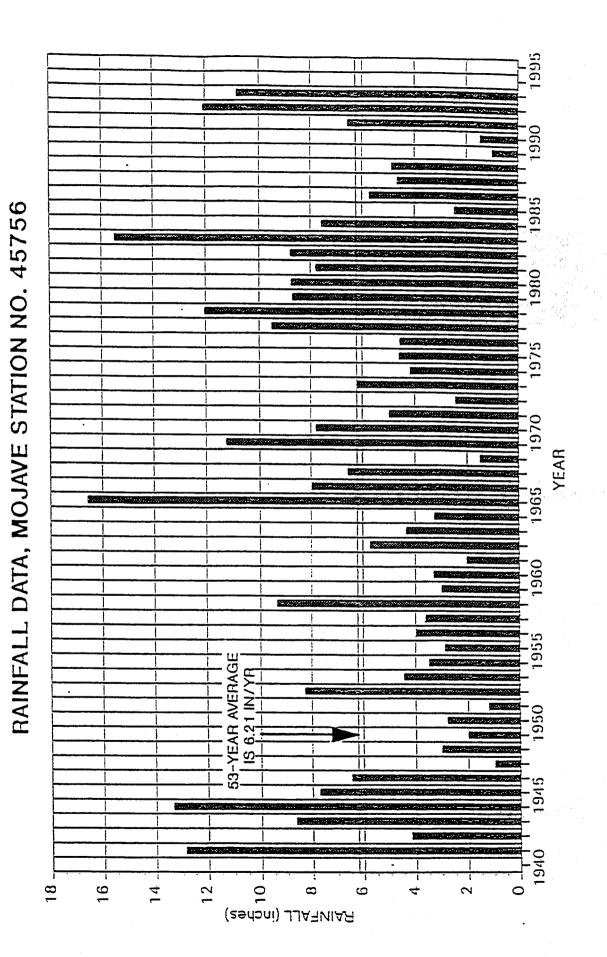


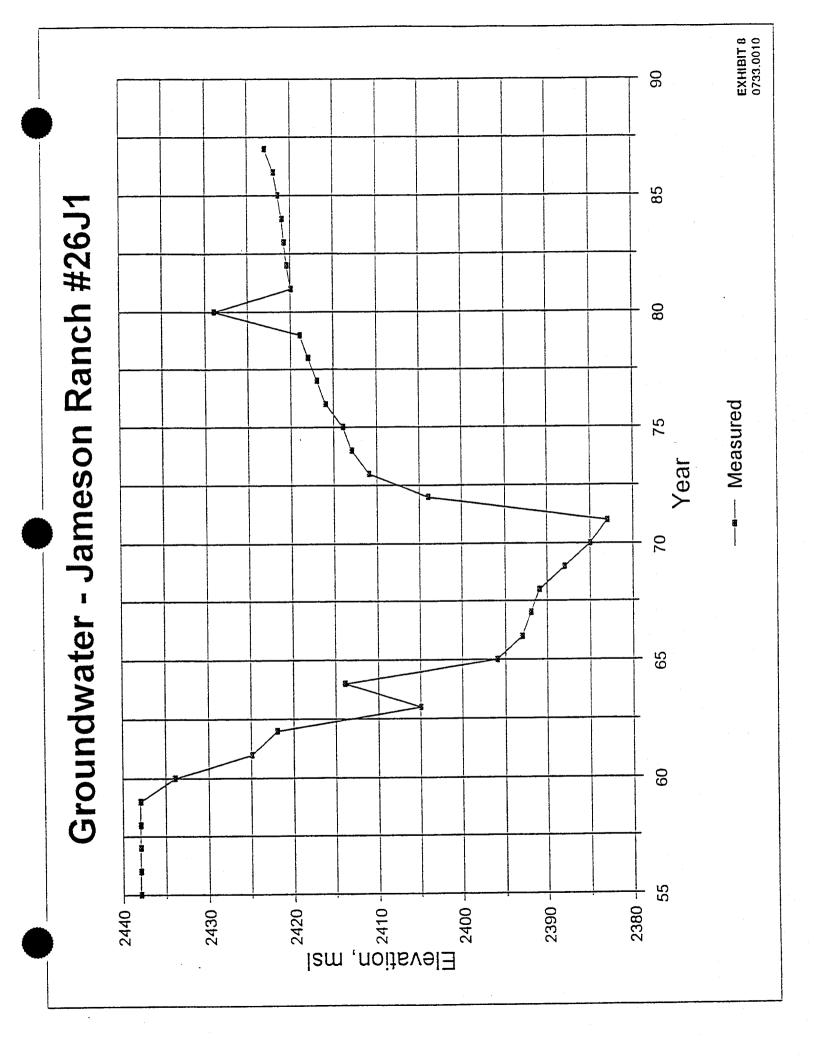


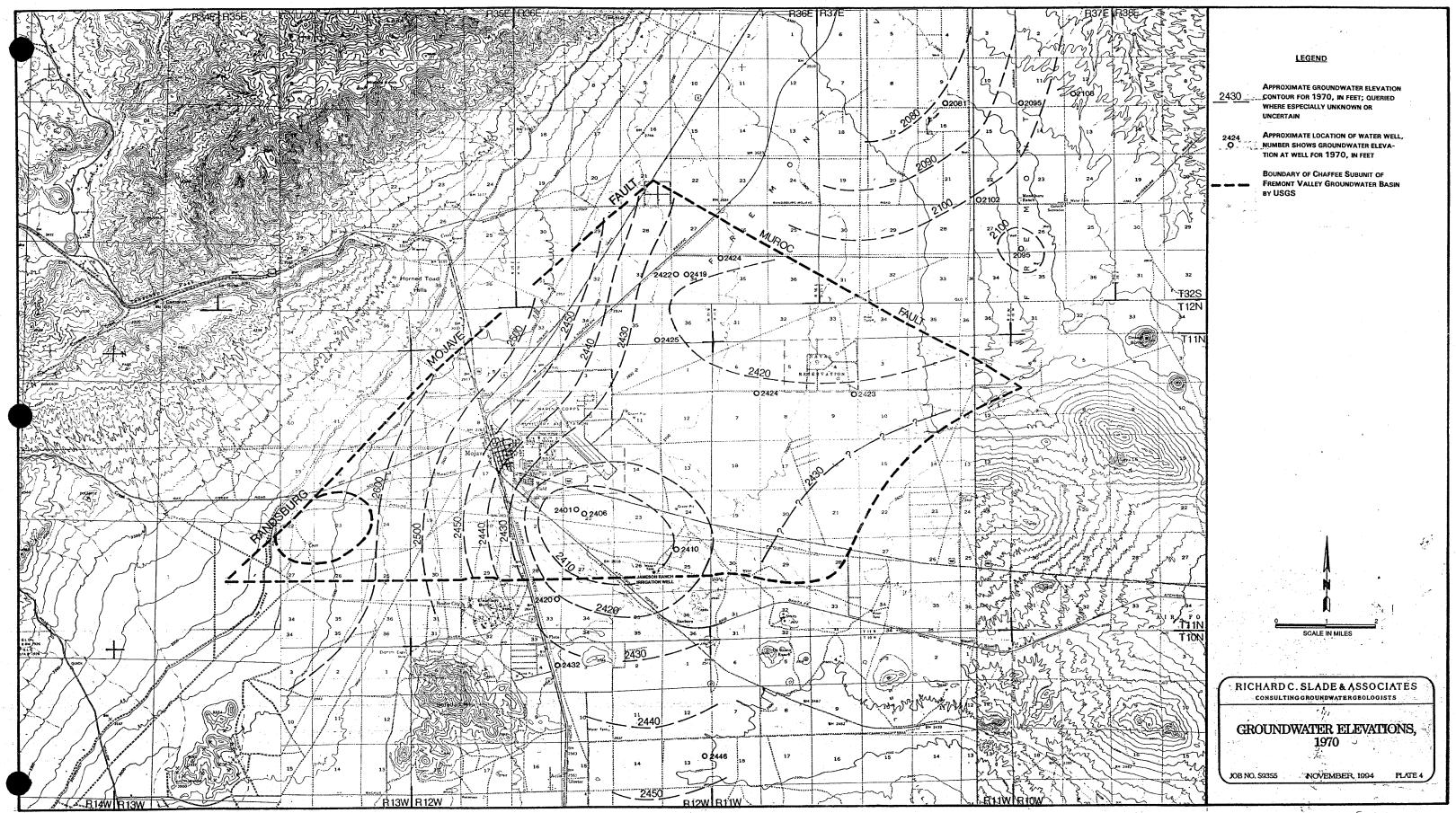


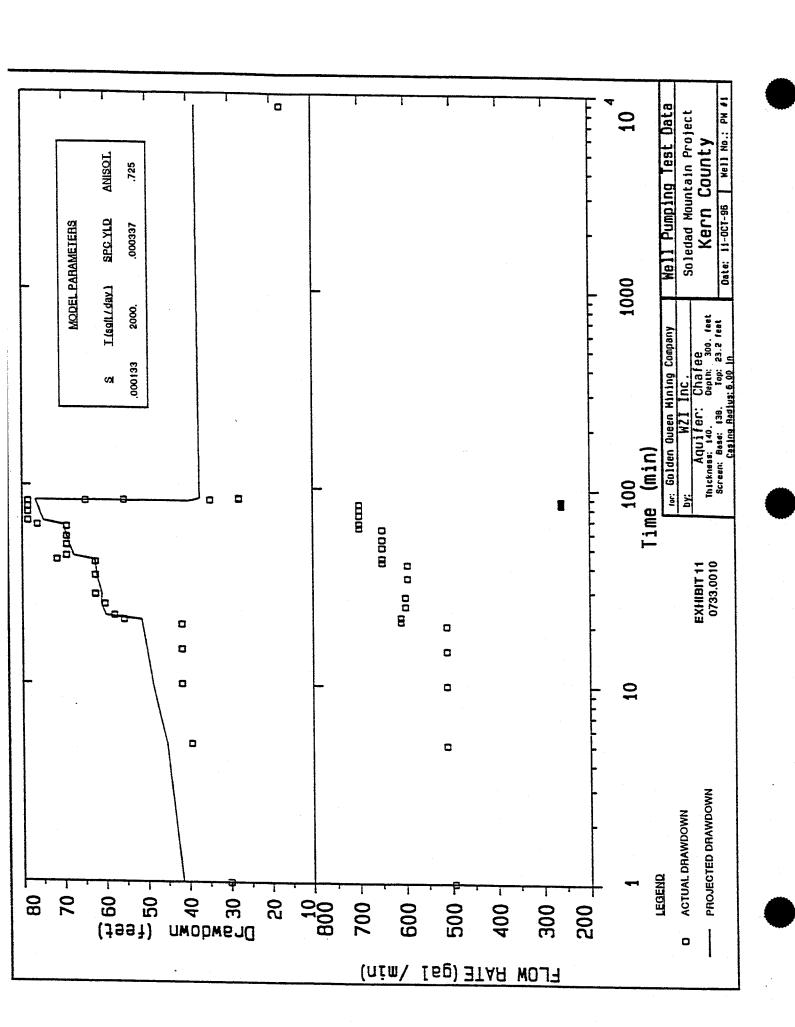




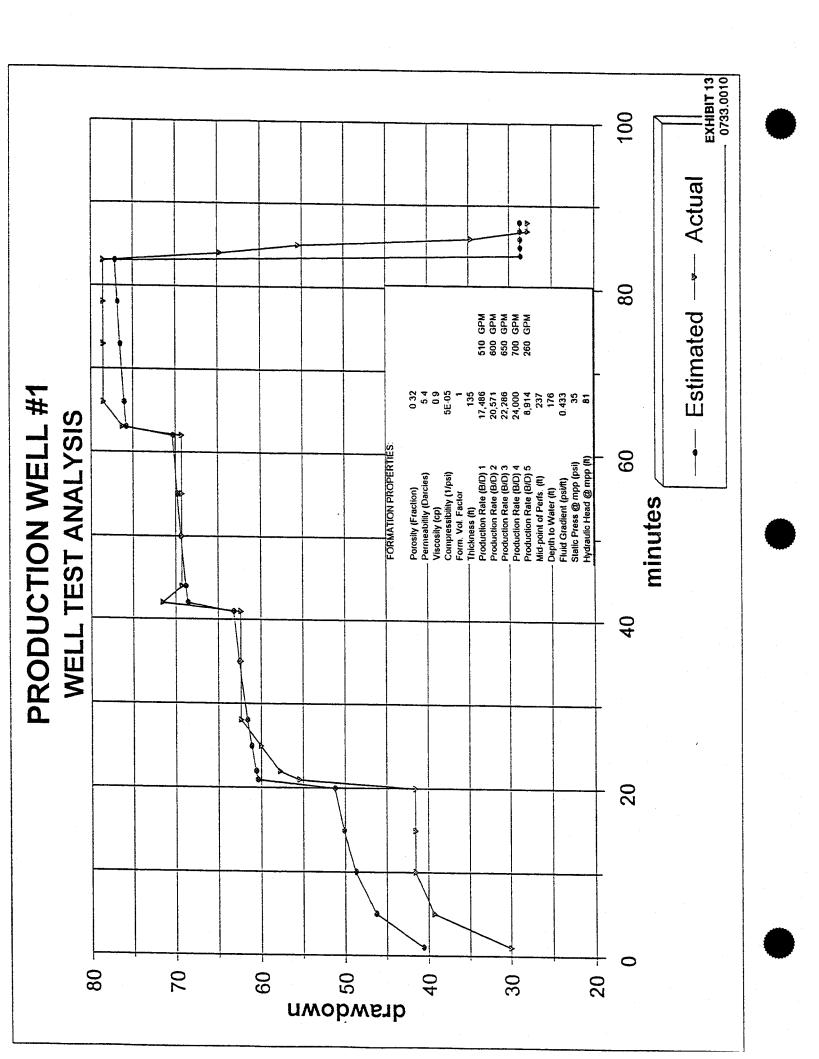








**Multiple-Rate Testing Analysis** 



# GOLDEN QUEEN PRESSURE WAVE CALCULATION

	FORMATION PROPERTIES	•	
o	Porosity (Fraction)	0.32	
k	Permeability (Darcies)	5.4	
u	Viscosity (cp)	0.9	
c	Compressibility (1/psi)	5E-05	
В	Form. Vol. Factor	1	
h	Thickness (ft)	135	
q	Production Rate (B/D)	25,714	750 GPM
	Two Wells each at	12,857	375 GPM
	Three Wells each at	8,571	250 GPM
	Distance between wells, ft	1,000	
mpp	Mid-point of Perfs. (ft)	238	
đ	Depth to Water (ft)	176	
g	Fluid Gradient (psi/ft)	0.433	
ре	Static Press @ mpp (psi)	27	
Н	Hydraulic Head @ mpp (ft)	61.5	

FORMULAE:

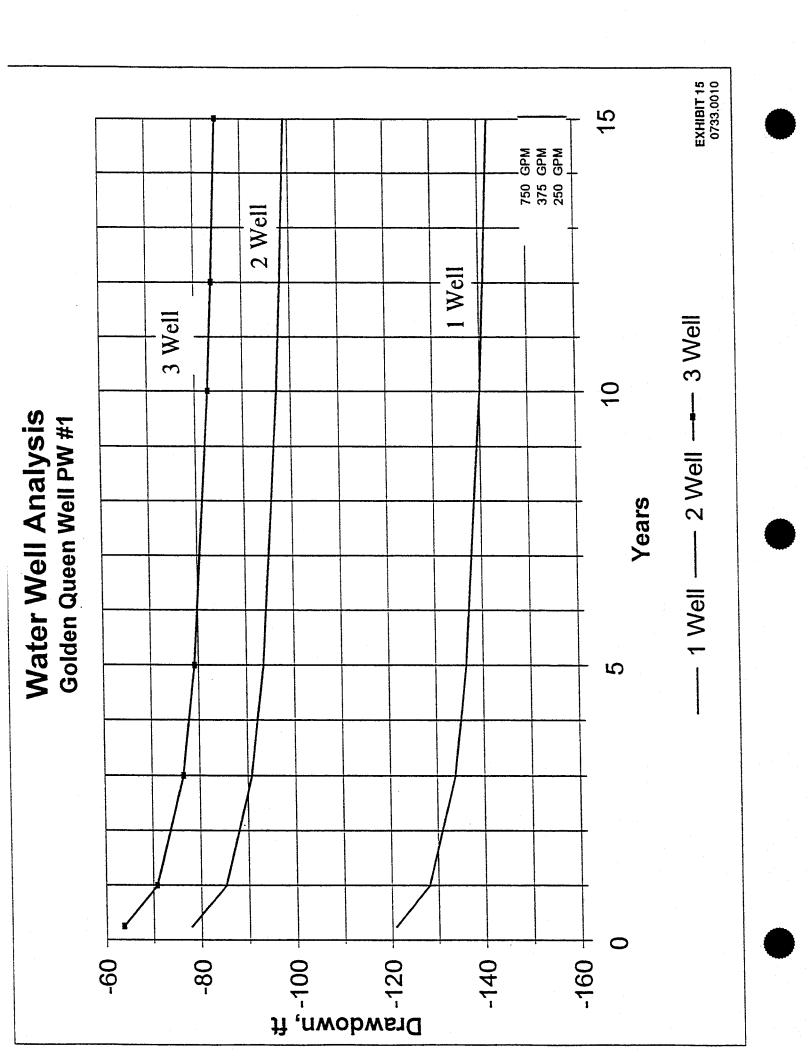
(Craft and Hawkins, p.314)

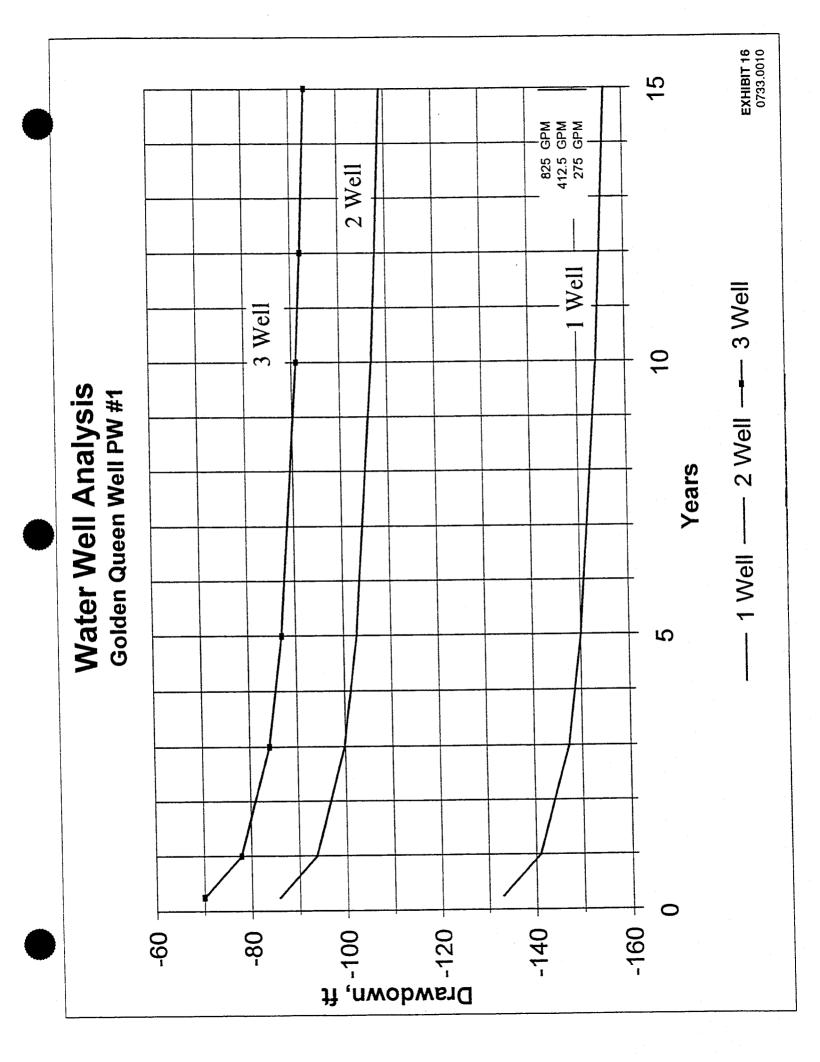
re=[kt/(0.04uc0)]^1/2

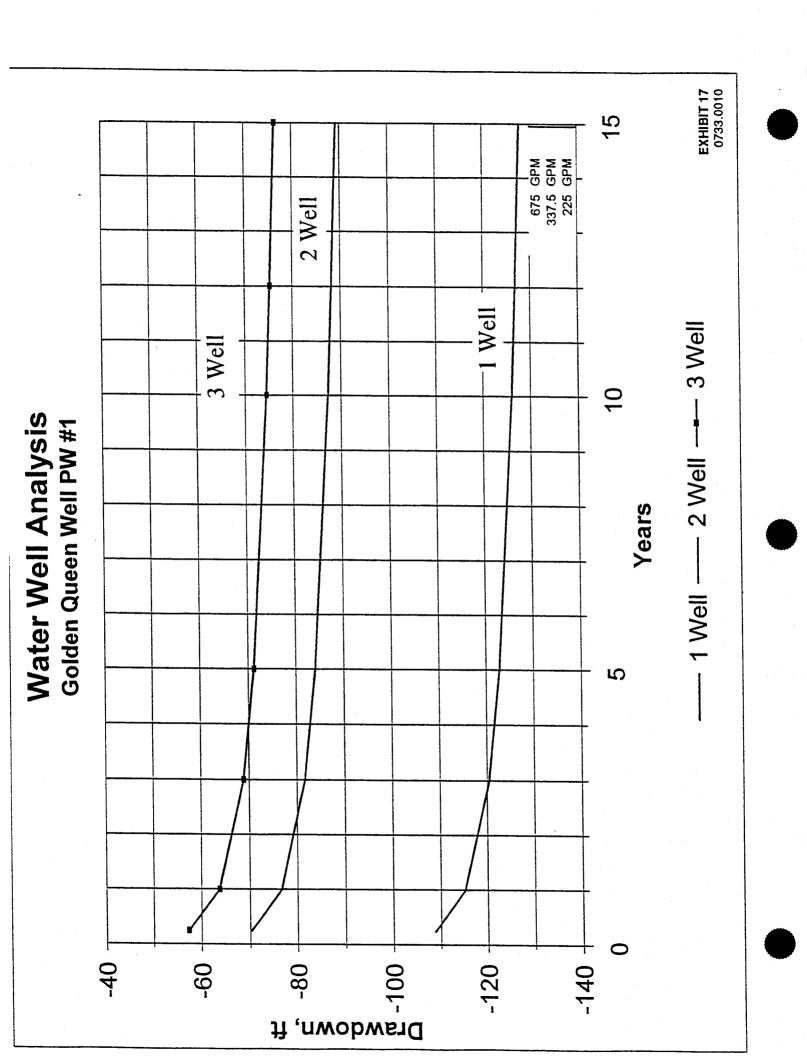
pe-p=quBln(re/r)/(7.08kh)

dH PRESSURE WAVE (ff)	\·						
diffication wave (ii		adius (ft)					
Time (yrs)	0.25	500	1000	2000	3700	5300	10000
750 GPM (RATE PER WELL)							
0.25	121	42	35				
1	128	49	42	35	29	25	18
3	134	55	48	41	34	31	24
5	136	58	50	43	37	33	27
10	140	61	54	47	41	37	30
12	141	62	55	48	41	38	31
15	142	63	56	49	43	39	32
375 GPM (Each)	2 wells	1000 ft	apart - Cor	nbined Eff	ect		
0.25	78	36	31	26	20	17	- 11
1	85	44	39	33	27	24	18
3	91	49	44	39	33	30	23
5	93	52	47	41	36	32	26
10	97	56	50	45	39	36	30
12	98	56	51	46	40	37	31
15	99	58	53	47	41	38	32
250 GPM (Each)	3 wells	1000 ft	apart - Co	mbined Eff	fect		*
0.25	64	35	30	25	20	16	10
1	71	42	37	32	27	24	. 18
3	76	47	43	38	33	29	23
5	79	50	46	40	35	32	26
10	83	54	49	44	39	36	30
12	84	55	50	45	40	37	30
15	85	56	51	46	41	38	32

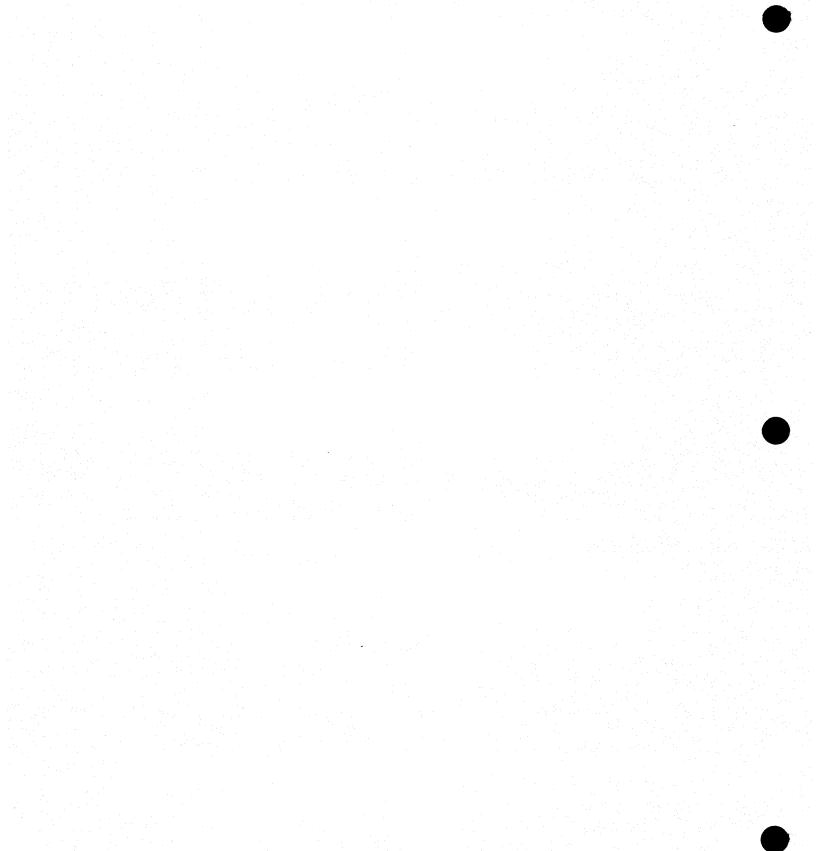
GOLDQUEN\PWAVEGQ







APPENDIX A



### Nomenclature for Permeability calculations

r<sub>e</sub> = external boundary radius

k = permeability

t = time

 $\mu$  = viscosity

c = compressibility

 $\phi$  = porosity

p<sub>e</sub> = external boundary pressure

p = pressure

q = volumetric flow rate

B<sub>o</sub> = formation volume factor

r = radial distance

h = height of aquifer

p<sub>i</sub> = initial pressure

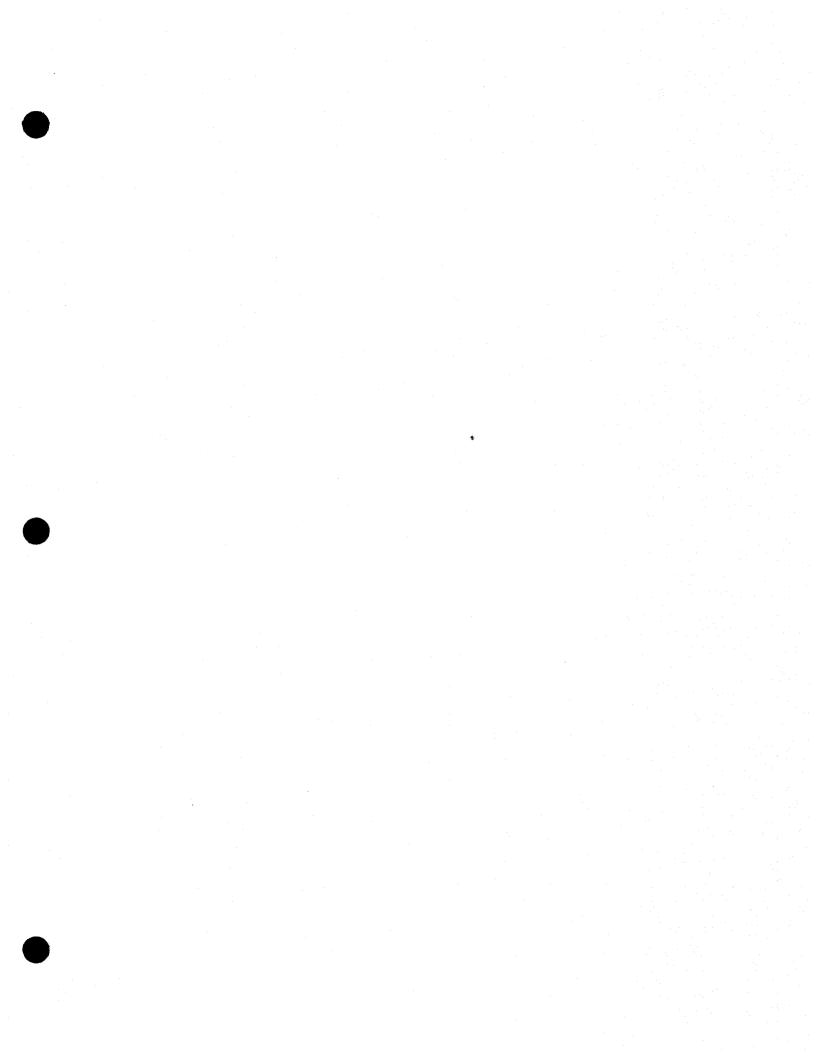
 $p_{wf}$  = flowing well pressure

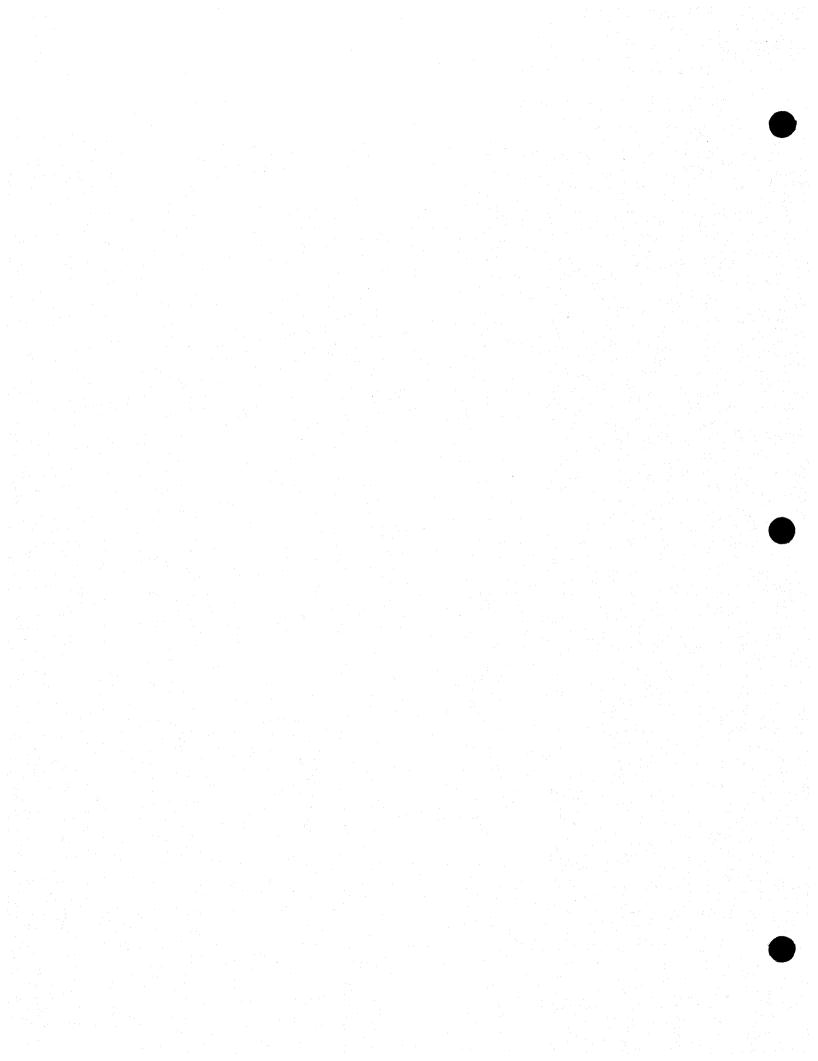
 $q_N$  = flow rate at time N

 $q_i$  = flow rate at time j

 $q_{j-1}$  = flow rate at time j-1

m' = slope of line





FOR THE SOLEDAD MOUNTAIN PROJECT

# Prepared For:

P.M. DeDYCKER AND ASSOCIATES 12596 West Bayaud Avenue Suite 380 Lakewood, Colorado 80227

Prepared by:

WATER, WASTE & LAND, INC. 2629 Redwing Road, Suite 200 Fort Collins, Colorado 80526

July 1990

This document reviewed by WZI Inc. in support of the final Environmental Impact Report/Environmental Impact Statement for the Soledad Mountain Project, Mojave, Kern County, California. Certified Engineering Geologist State of California No. 1818 Expiration: 3/31/99

# TABLE OF CONTENTS .

																										Pag	je
1.0	INTROD	JCTION					•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	. •	•	1
		PURPOS STUDIE																									
2.0	SUMMAR	Y OF EX	ISTIN	IG IN	FOR	MAT	ION			•		•		• •	•	•		•	•	•	•	•	•	•	•		3
	2.2	EXISTIN REGULAT ALTERNA	ORY F	REQUI	REM	ENT	S	•	•						•	•				•	•	•	•	•	•		3 6 6
3.0	HYDROL	OGICAL	SETT	ING .	•		•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•		7
	3.1 3.2 3.3	REGIO	NAL G	EOHYD	ROL	OGY	′ •	•	•	•	•	•	•	•	•	•	•	•	•	•		•	٠	•	•	•	7 7 8
4.0		SUPPLY																									10
	4.2	WATER SOLEDA WATER	D MOU	NTAI	I P	ROJ	ECT	S	JUR	CE	S	•	•	•	•	•	•	•	• .	•	•	•			•	•	10 10 11
5.0	GROUN	DWATER	тіиом	ORIN	î.	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12
	5.1 5.2	MONITO	RING ORING	REQU WELL	IRE S .	MEN •	TS • •	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12
6.0	CONCL	.USIONS				•			. •	•	•	•	•		•	•	•	•	•	•	•	•	•	•,	•	•	1
7.0	REFER	RENCES				•			•		•	•	•	•	•	•	•	•	•	•	•	• ,	•	•	•	•	1

#### 1.0 INTRODUCTION

#### 1.1 PURPOSE AND SCOPE OF REPORT

This report summarizes the results and conclusions from initial hydrologic studies for Noranda's Soledad Mountain Project in Kern County, California. This report was prepared upon your request, and is based on data collected by Water, Waste & Land, Inc. (WWL). This work consisted of data collection and review, and was conducted initially for Golden Queen Mining Company, Inc. (Golden Queen) and later for Noranda Inc. (Noranda), as outlined in the following section.

#### 1.2 STUDIES CONDUCTED TO DATE

Initial work, consisting of data review, was conducted for Golden Queen according to the Phase I study outline prepared for Envirocon in September 1989. Phase I work, originally envisioned as the first of a three-phase study, consisted of review of available data, identification of water supply sources in the area, and preliminary characterization of the hydrology of the area.

A report describing the results of this study was prepared for Golden Queen Mining Company in October 1989. An important part of the planned data review could not be conducted because drillers logs and production information from over 30 wells in the site area were (by California regulations) confidential, and could not be obtained without written consent of the property owners.

Following Noranda's acquiring rights to assess the Soledad Mountain property in late 1989, WWL prepared a work scope for completion of Phase I studies and initiation of subsequent phases of hydrologic data collection for project water supply and waste disposal site monitoring. This work scope was prepared for Envirocon in December 1989, and was revised in March 1990 to include WWL personnel collecting private well information. A key task in this revised phase of work was assessing an existing well on land controlled by Golden Queen in Section 36, northwest of the project site.

In April 1990, WWL conducted a survey of wells in the project area to collect drillers logs and other pertinent well information through permission from landowners. Guidance on who to contact about well information was provided by Noranda site personnel. The results of this task were documented in a letter to Noranda dated April 26, 1990. This task provided very little published well information, although information from conversations with local residents provided some insight into the area geohydrology and water supply. The well in Section 36 was not found, and was believed to be destroyed during previous land development construction work.

Upon your request, WWL prepared a revised work scope for the next steps to be taken for mine development hydrology, based on the information collected in April. This work scope was prepared for P.M. DeDycker and Associates in May 1990.

#### 2.0 SUMMARY OF EXISTING INFORMATION

#### 2.1 EXISTING WELLS AND DRILLING INFORMATION

Available information about the geology and geohydrology of the Soledad Mountain area, and wells and water supplies used in the area was obtained from the following sources:

- 1. Reports and data collected by WWL during the site visits on August 8-9, 1989 and April 17-20, 1990, as well as communication with local residents.
- 2. Conversations with California state agency and Kern Water Agency personnel concerning well records and other public well data.
- 3. Conversations with Antelope Valley-East Kern Water Agency (AVEK), Kern County Water Agency, and Mojave Public Utilities District personnel concerning water supply information.
- 4. Conversation with CoCa Mines personnel about water supply information at the Middle Buttes and Shumake Mines (which are located west of the site).

The references and information obtained from these sources are listed in the references section of this report. Much of the published data was referenced in the geohydrology report prepared for the Shell Standard Hill Project (Rector, 1986).

AVEK provided information on wells monitored by the United States Geologic Survey (USGS) for AVEK. In addition, AVEK provided preliminary information on the location of facilities, water service agreements, water rates, and rules and regulations for distribution of water. The Kern Water Agency provided limited information on a number of private wells in the area.

Table 1 is a summary of available information on existing water wells in the area from WWL's October 1989 report. The approximate locations of wells included in Table 1 are shown on Figure 1. This information was limited to published data or that obtained by personal communication. Collection of actual drilling logs of these wells was attempted in April 1990 through requests made to local landowners. This task yielded no published information, but conversations with landowners provided general information about geohydrologic conditions and water supply.

TABLE 1
SUMMARY OF EXISTING WATER WELL DATA

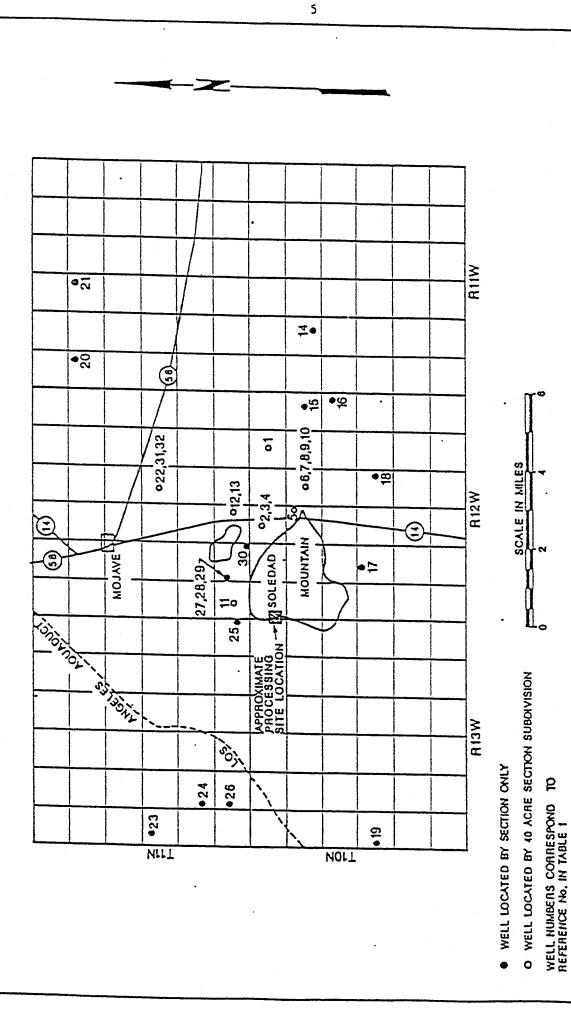
REF NO.	LOCATION	TOTAL DEPTH (ft)	DEPTH R TO WATER (ft)	EPORTED YIELD (gpm)	INFORMATION SOURCE <sup>1</sup>	DN COMMENTS
1.	T10N, R12W, Sec. 2	257	187	-	В	Terminated on "Granite"
2.	T10N, R12W, Sec. 4	340	135		В	Terminated on "Hard Rock"
3.	T10N, R12W, Sec. 4	275	175	3	В	
4.	T10N, R12W, Sec. 4	222	186	1.	В	Terminated on "Hard Rock"
5.	T10N, R12W, Sec. 9	238	163	6	В	Alluvium Total Depth
6.	T10N, R12W, Sec. 10	200	87	30	В	Alluvium Total Depth
7.	T10N, R12W, Sec. 10	204	93	35	В	Alluvium Total Depth
8.	T10N, R12W, Sec. 10	202	93	35	В	
9.	T10N, R12W, Sec. 10	200	92	30	В	
10.	T10N, R12W, Sec. 10	200	85	25	В	
11.	T11N, R12W, Sec. 31	350	95	30	В	
12.	T11N, R12W, Sec. 33	240	175	Fair	В	Yield Reported as "Fair"
13.	T11N, R12W, Sec. 33	252	190	-	В .	Terminated in "Bedrock" owned by California Portland Cement Co.
14.	T10N, R11W, Sec. 8	280	58	_	Α	
15.	T10N, R12W, Sec. 12	224	84	_	A	•
16.	T10N, R12W, Sec. 13	185	60	-	Α	
17.	T10N, R12W, Sec. 20	-	107	-	Α	
18.	T10N, R12W, Sec. 22	242	43	-	Α	
19.	T10N, R13W, Sec. 19	770	317	-	Α	
20.	T11N, R11W, Sec. 7	414	209	-	Α	
21.	T11N, R11W, Sec. 9	422	131	-	Α	In Alluvium
22.	T11N, R12W, Sec. 22	350	247	-	Α	
23.	T11N, R13W, Sec. 19	430	311	-	Α	
24.	T11N, R13W, Sec. 29	749	307	-	Α	In Alluvium
25.	T11N, R13W, Sec. 36	630	280-380	-	С	Alluvium Total Depth
26.	T11N, R13W, Sec. 32	300	180	. —	С	Top 50 Feet Alluvium
27.	T11N, R12W, Sec. 32	300	_	40	C	
28.	T11N, R12W, Sec. 32	265	180	40	С	
29.	T11N, R12W, Sec. 32	-	176	-	С	
30.	T11N, R12W, Sec. 32	245	188	-	С	
31.	T11N, R12W, Sec. 22	381	255		С	Mojave P.U.D. Well
32.	T11N, R12W, Sec. 22	348	270	-	С	
						•

<sup>&</sup>lt;sup>1</sup>Information Source

A. U.S.G.S.

B. Kern Water Agency

C. Rector (1986)



EXISTING WELL LOCATIONS FIGURE 1

OCT 1989 151 Dale:

Profect:

Woler, Waste & Land, Inc.

## 2.2 REGULATORY REQUIREMENTS

Groundwater monitoring requirements for Mining Waste Management Units are governed by the California Water Resources Control Board (1984). The regulations require that all monitoring wells be logged during drilling under the direct supervision of a registered geologist. The monitoring system must be designed and certified by a registered geologist or civil engineer and must define background water quality as well as monitored water quality at the point of compliance.

Wells must be constructed using annular filter material around the screened interval (sand or gravel pack) and the annular space above the screened interval sealed to prevent surface pollution and cross-contamination of saturated zones. The minimum depth of upper annular space seal is 20 feet below ground surface for observation and monitoring wells, with other provisions for shallow wells (California Department of Water Resources, 1981). The well must be adequately developed to prevent sediment from entering the casing. Other well construction standards for specific subsurface conditions are required by the State of California (California Department of Water Resources, 1981).

Based on these regulations and expected subsurface conditions, the mine water supply well will require a borehole diameter at least 4 inches greater than the production casing. A surface seal must extend to a minimum depth of 50 feet with a nominal thickness of at least 2 inches. The sealing material can consist of grout, bentonite, or concrete. The top of the well must extend above ground surface or known flood levels and prevent the entrance of foreign material.

## 2.3 ALTERNATIVE WATER SOURCES

Based on a generalized map provided by AVEK, a 36-inch north-south feeder line lies a few miles east of Soledad Mountain. The Mojave pump station is located on that feeder just east of Standard Hill. Mr. Russ Fuller of AVEK also indicated that they maintain a 32 million gallon reservoir in Section 5, T10N, R12W, which appears to be approximately 1-1/2 miles east of the project site. The Los Angeles Aqueduct passes through the area approximately 5 miles northwest of the site.

If required, water could be purchased from AVEK subject to rules and regulations concerning supply and connections. For the Golden Queen facility water rates are estimated at \$165.00/acre-ft in 1990, \$180.00/acre-ft in 1991, and \$190.00/acre-ft in 1992 (Fuller, 1989). These figures do not include connection costs or other capital costs associated with delivery of water to the mine.

#### 3.0 HYDROLOGICAL SETTING

7

## 3.1 SURFACE HYDROLOGY

The Antelope Valley is a closed basin, with surface water eventually reaching the dry lake beds of Rosamond and Rogers Lakes located southeast of the site. Due to the low precipitation received in the area, no rivers, streams, or other signs of significant or regular surface water flow are seen. The ground surface of the valley floor in the Soledad Mountain area generally slopes from west to east. Soledad Mountain and Standard Hill protrude from the valley floor, and form a local variation in surface water flow.

## 3.2 REGIONAL GEOHYDROLOGY

Water bearing rocks in the region can be divided into two broad classes: consolidated rocks and alluvium. The consolidated rocks comprise bedrock in the region and underlie the valley fill alluvium. The bedrock consists of a basement complex of pre-Tertiary sedimentary, metamorphic, and igneous rock units along with Tertiary-age volcanic and sedimentary rocks (Kunkel and Dutcher, 1960). As is typical of predominantly crystalline rocks, groundwater generally occurs in fractures and is limited in quantity; however, sufficient supplies for domestic use may be present.

Alluvial deposits fill the valleys between mountain ranges and bedrock outcrops in the region. The alluvium can be divided into a younger and an older unit. Playa lake deposits occur locally within both the older and younger alluvial units.

The older alluvium is the principal aquifer in the region. It is generally poorly consolidated to unconsolidated and is composed of silt, sand, gravel and boulders. Feldspars may locally be altered to clay due to weathering. Thickness of the older alluvium may range to as much as 2,000 feet in basin centers (Kunkel, 1962). Between Soledad mountain and the town of Mojave, alluvium may reach 700 feet or more in thickness (Rector, 1986). The younger alluvium is composed of lenses of fine to coarse sediment and unconformably overlies the older alluvium and consolidated rocks. It was deposited by intermittent streams of Pleistocene to recent age and may range up to 100 feet thick (Kunkel, 1962). The alluvial deposits are treated as one hydrogeologic unit, the alluvial aquifer, in this report.

Groundwater in the alluvial aquifer may locally be confined by low permeability, fine grained layers (Rector, 1986). The low permeability layers are likely the result of lacustrine and playa lake deposits or interbedded clays in the alluvium. Although it appears surface recharge to the alluvial aquifer

can occur throughout the basin, limited annual precipitation and the presence of low permeability layers which inhibit downward flow probably restrict widespread areal recharge. Basin margins and areas of thin alluvial cover are probable recharge areas.

Soledad Mountain is in the Gloster groundwater subunit near the boundary with the Chaffee subunit (Kunkel and Dutcher, 1960). Regional groundwater flow is predominantly eastward across these areas, then northeast across the Muroc Fault and down the Fremont Valley toward an evaporative sink at Koehn Lake (Kunkel, 1962). Historic water well data for these units do not show any long-term downward trends in water levels (Fuller, 1989 and Rector, 1986). Therefore, it is assumed that the alluvial aquifer is not being overdrawn and could support additional withdrawal in the area surrounding Soledad Mountain.

Water in the Chaffee and Gloster subunits is moderately mineralized. Available data indicates that total dissolved solids in groundwater of the area ranges from approximately 200 to 500 mg/l. The dominant anions appear to be sulfate and bicarbonate with concentrations on the order of 100 to 200 mg/l. Chloride concentrations are in the range of 10 to 40 mg/l. Calcium is the predominant cation with concentrations generally ranging from 50 to 100 mg/l followed by sodium with concentrations on the order of 40 to 50 mg/l. Groundwater in the Gloster subunit can be classified as sodium-calcium bicarbonate-sulfate water (Rector, 1986).

## 3.3 LOCAL GEOHYDROLOGY

Based on available data for the wells closest to Soledad Mountain, depth to water ranges from approximately 90 feet to 190 feet. With the exclusion of what are thought to be five residential wells in the Goldtown Subdivision (Section 10, T10N, R12W) east of Soledad Mountain and one well north of Soledad Mountain (Section 31, T11N, R12W) depth to water is predominantly on the order of 175 to 185 feet. Well depths generally range from 200 to 350 feet.

When reported, well yields on the order of 30 to 40 gpm are common. Most of the reported yields are in the wells located east of Soledad Mountain, probably in the Goldtown Subdivision. However, two wells north of Soledad Mountain have reported production rates of 40 gpm. Near the town of Mojave, the Mojave Public Utilities District owns wells that have produced 500 gpm. Wells on the western edge of Standard Hill were reported to produce 150 to 200 gpm in the early 1960's (Rector, 1986).

The local flow system in the immediate vicinity of the site tentatively selected for mineral processing (mill/leach pad area) is poorly defined due to the influence of the bedrock outcrop and the absence of existing well information on the west side of the mountain. As stated in Section 3.2, the

dominant regional flow takes place in the alluvium in an easterly direction. The consolidated bedrock comprising Soledad Mountain is relatively impermeable compared to the alluvium and probably acts as a barrier to flow in the alluvial aquifer. Therefore, the easterly groundwater flow paths in the alluvium are disrupted on the west side of Soledad Mountain and take a more northerly or southerly direction as groundwater flows around the bedrock barrier. This complicates delineation of flow in the vicinity of the mine site and the placement of monitoring wells.

A few miles north and west of Soledad Mountain, well depths and depth to groundwater generally increase. Depths to water on the order of 200 to 300 feet are common along with well depths of 350 to over 700 feet. Production rates for these wells are 300 gpm or more.

## 4.0 WATER SUPPLY

### 4.1 WATER SUPPLY

Water supply for mining operations in the area comes from wells completed in the alluvial aquifer or from AYEK. Based on conversations with AYEK personnel, the Standard Hill Mine obtains its water from AYEK. Shell originally tried to obtain water from wells, but apparently could not achieve the required production rates. It is believed that the wells were most likely completed too close to Standard Hill to penetrate enough of the alluvial aquifer to produce an adequate supply of water. Water for the Middle Buttes and Shumake Mines (west of the site) comes from nearby wells (within a mile of each mine). One of the wells is five hundred feet deep, completed in the alluvial aquifer (Hufford, 1990).

Alfalfa farms are located several miles south of the site. The source of irrigation water for these farms appears to be exclusively wells completed in the alluvial aquifer. Several wells have been identified in the immediate Soledad Mountain area, which appear to be for domestic use and of relatively low capacity.

## 4.2 SOLEDAD MOUNTAIN PROJECT SOURCES

The required water production rate for the project is expected to be on the order of 1000 gpm. As stated above, the consolidated rocks outcropping and underlying the alluvial fill are generally a poor source of water for all but domestic use. The valley fill alluvial aquifer appears to have the best potential for substantial water production.

In order to achieve adequate storage and production rates for mine use, a well or wells in the alluvial aquifer would need to be located a sufficient distance from bedrock outcrops to provide adequate thickness of saturated alluvium. Due to limited existing well information, it is uncertain where there is sufficient alluvial fill in the immediate vicinity of Soledad Mountain.

Well #25 (Table 1) and several other areas were located 1 to 1-1/2 miles northwest of the project site in Section 36, T11N, R13W. These wells (known as the Gillis Wells) were drilled to depths of over 600 feet, had initial groundwater levels of roughly 300 feet, and were pump tested at rates up to 750 gpm (Gaines, 1990).

## 4.3 WATER SUPPLY COSTS

Preliminary estimates were made to compare costs associated with the two most likely water supply alternatives — purchasing water from AYEK and pumping from a well. It was assumed that costs associated with water delivery from each source to the mine site would be comparable within the framework of current expectations. The evaluation consisted mainly of the cost of well installation and yearly pumping for groundwater development compared with AYEK connection cost and yearly pumping and water purchase costs.

This evaluation showed that water supply costs are roughly \$0.12 to \$0.19 per 1000 gallons for a well approximately one mile from the mill/heap leach site compared with roughly \$0.32 to \$0.46 per 1000 gallons for a water line tied into the AVEK system. Furthermore, a well would have to be located 10 to 20 miles from the project to raise water supply costs up to those of AVEK. This implies that a groundwater source could extend as far as ten miles from the mine site and still result in a cheaper water supply than that provided by AVEK.

## 5.0 GROUNDWATER MONITORING

## 5.1 MONITORING REQUIREMENTS

Groundwater monitoring in the area of the tailings impoundment or heap leach area is likely to be conducted using three to four wells completed in the alluvial aquifer. According to the guidelines discussed in Section 2.2, a minimum of one upgradient and two downgradient wells completed in the top of the uppermost aquifer are required. The point of compliance would be immediately inside the nearest downgradient property line.

## 5.2 MONITORING WELLS

As mentioned in Section 3.3, groundwater flow on the west side of Soledad Mountain is likely to be changing direction from the regional west-to-east direction to a northerly or southerly direction (in order to flow around the lower conductivity rocks that comprise Soledad Mountain). Due to the absence of existing wells on the west side of Soledad Mountain, and the likely variations in flow directions in this area, directions of flow (and upgradient and downgradient wells) may not be established until three of the monitoring wells are drilled.

To compensate for this, three monitoring wells should be drilled around the tailings/heap leach area at locations expected to meet monitoring requirements. By evaluating the static water level in these wells, upgradient and downgradient directions can be established and designation of background and point of compliance monitoring wells made at that time. It is possible that a fourth well would be required if it is found that two wells were not downgradient of the mill leach pad when actual flow directions are defined.

Based on information from wells on the east side of Soledad Mountain, depth to water is estimated to be 100 to 180 feet. Depth to bedrock on the west side of Soledad Mountain is not clearly known. Therefore, it is possible that monitoring wells located on the property boundaries may extend into bedrock before reaching the top of the alluvial aquifer.

## 6.0 CONCLUSIONS

Conclusions form the data collection work conducted by WWL in 1989 and early 1990 are summarized below.

- 1. Suitable water supply for the project is likely from one or two wells completed in the basin alluvium west of Soledad Mountain.
- Monitoring of a tailings impoundment or leach pad adjacent to the processing site is likely to require three to four monitoring wells along the Golden Queen property boundaries.
- 3. Logs of existing wells in the project area are generally not available due to California Division of Water Resources restrictions, and due to the difficulty of getting a well log request from the current well owners.
- 4. The wells in Section 36 (northwest of Soledad Mountain) that were potential sources for water were destroyed during earlier subdivision development
- 5. Wells in the area are reported to have measurable concentrations of arsenic, and one well on the south side of Standard Hill is reported to have measurable concentrations of cyanide.
- 6. Additional information about the geohydrology of the site, water supply, and waste disposal site monitoring will require installation and sampling of new wells.

Suledad mountain 14 July 31, 1990

#### 7.0 REFERENCES

- Fuller, Russ, 1989. Personal Communication, Antelope Valley-East Kern Water Agency, Quartz Hill, CA, October.
- Gaines, Bruce, 1990. Personal Communication, Mojave Public Utilities District, Mojave, CA, April.
- Haslebacher, Tom, 1989. Personal Communication, Kern County Water Agency, Bakersfield, CA. October.
- Hufford, George, 1990. Personal communication, CoCa Mines, Mojave, CA, April.
- Kunkel, Fred, 1962. Reconnaissance of Ground Water in the Western Part of The Mojave Desert Region, USGS Hydrologic Investigations Atlas, HA-31, California.
- Kunkel, Fred, and L. C. Dutcher, 1960. <u>Data on Water Wells in the Willow Springs</u>, Gloster, and Chaffee Areas. <u>Kern County</u>, California, USGS, California Department of Water Resources Bulletin No. 91-4.
- Poulter, Don, 1989. Personal Communication, D.P. Engineering, Denver, CO, October.
- Rector, Michael C., 1986. <u>Standard Hill Pilot-Scale Leach Test Site, Kern County, California, Geohydrology Report</u>, Shell Mining Company, P.O. Box 2906, Houston, Texas 77252.
- State of California, Water Resources Control Board, 1984. <u>California Code of Regulations</u>, Title 23, Subchapter 15, Articles 1-10.
  - State of California, Department of Water Resources, December 1981. <u>Water Well Standards: State of California</u>, Bulletin 74-81, Sacramento, California.
  - USGS, 1989. <u>Water Resources Data California. Water Year 1988</u>, "Groundwater data for California," Yol. 5.

BOARD OF DIRECTORS

ANDY D. RUTLEDGE Division S President

> KEITH DYAS Division 2 Vice President

CARL 6. HUNTER, JR.

FRAME S. GONATO Division 3

GEORGE M LANE

NEAL A. WEIDENBERGER

DURWARD F JACKSION



A PUBLIC AGENCY

May 12, 1997

OFFICERS

WALLACE C. SFINARSE. Gereral Manager

REST, REST and ERIEGER

MAXINE M SHOW

BOYLE ENGINEERING CORP Consulting Engineers

Richard W. Graeme Golden Queen Mining Company, Inc. P. O. Box 820 Mojave, CA 93502-0820

Dear Mr. Graeme:

The Antelope Valley-East Kern Water Agency is a wholesale supplier of imported State Water Project water for the Antelope Valley area. The Agency operates (4) nine million gallon reservoirs containing potable treated water for Municipal and Industrial uses. The reservoirs are in the Mojave area southwest of the intersection of Silver Queen Road and Freeway 14. The Golden Queen Mining Company, Inc., located west of AVEK's reservoir site on the north side of Soledad Mountain, is within Agency boundaries. The Agency currently supplies water to Billiton Corporation for their mining operation on Standard Hill to the north.

Subject to proper application and payment of appropriate fees, AVEK would provide water for use by the Golden Queen Mining Company per established terms and conditions. The cost of conveyance facilities from AVEK's reservoir site to the point of use would be Golden Queen Mining Company's responsibility.

Please call if there are further questions or comments.

Sincerely,

Russell E. Fuller

Assistant General Manager

# METEOROLOGICAL DATA SUMMARY APRIL - JUNE 1990 SOLEDAD MOUNTAIN PROJECT

Prepared for Noranda Mining Corporation Lakewood, CO

> Prepared by Jeffrey N. Herring Air Sciences Inc. Lakewood, CO

Project No. 58-07 August 1990

## Table of Contents

1.0 INTRODUCTION	1
1.1 Location	1
1.2 Program Description	1
1.3 Data Recovery	
2.0 METEOROLOGICAL DATA SUMMARY	
2.1 Winds	5
2.2 Temperature	9

## List of Tables

1	DATA RECOVERY RATES	4
2	FREQUENCY OF WINDS BY DIRECTION AND SPEED	7
3	FREQUENCY OF WINDS BY DIRECTION AND STABILITY	7
4	MONTHLY TEMPERATURE MEANS AND EXTREMES	9

## List of Figures

1	GENERAL PROJECT LOCATION	2
2	WIND FREQUENCY DISTRIBUTION	8

## 1.0 INTRODUCTION

This report summarizes 3 months of meteorological data collected near Soledad Mountain in the Mojave Desert of Kern County, California for Noranda Mining Corporation near a proposed open-pit mining project known as Soledad Mountain Project. Data for this report was collected from April 1, through June 30, 1990. This report summarizes the third quarter of the monitoring program which began on September 29, 1989. Monitoring was performed in accordance with "Sampling Protocol, Golden Queen Mine Project, Mojave, California," (Air Sciences Inc., October, 1989). The purpose of the monitoring was to collect dispersion meteorological data to be used in dispersion modeling and to collect climatological values.

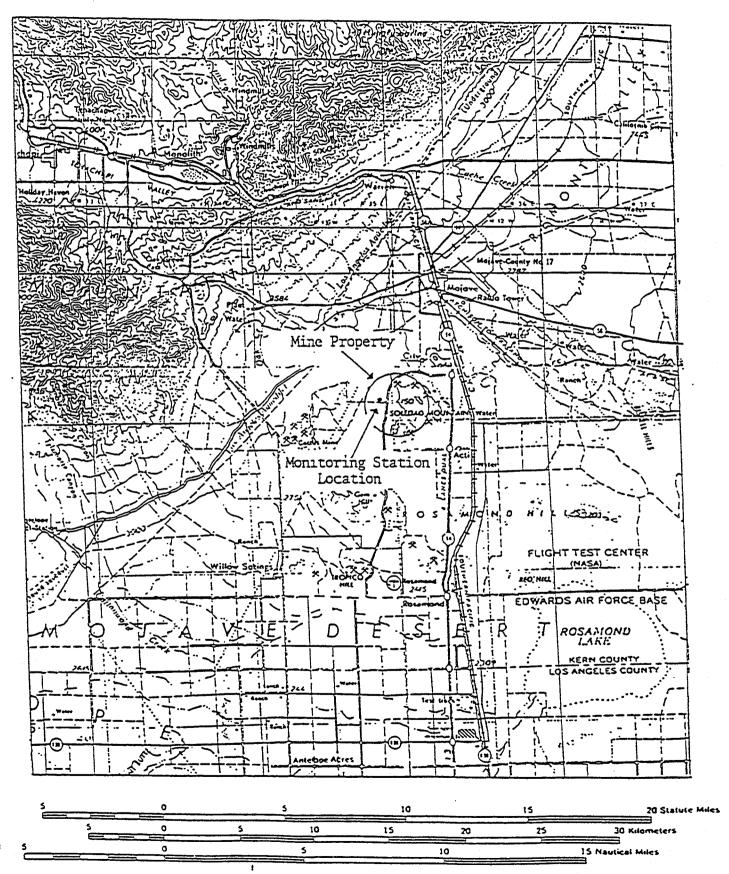
### 1.1 Location

The Soledad Mountain monitoring station is located on the plains west of Soledad Mountain in the Mojave Desert of southeastern Kern County, California. The site is approximately 12 miles northwest of Rosamond Lake and 5 miles south southwest of the town of Mojave. The mine pit and waste dumps will be located on the western side of Soledad Mountain, just east of the Mojave-Tropico Road. The monitoring station will be located approximately one-quarter mile west of Mojave-Tropico Road and west of the proposed pits and tailings dumps. The station will be located on the desert plain at a lower elevation than the proposed pits and dumps in an area where the meteorological data should define the wind patterns that will carry pollutants toward residential areas. The station will be at an approximate elevation of 2,850 feet MSL at UTM coordinates 3,871 km north and 389 km east (the southwest quarter of Section 1, T 10 N, R 13 W). Vegetation is sparse in this part of the Mojave Desert Basin and consists of sagebrush and widely scattered Joshua trees. The monitoring location is shown on Figure 1.

## 1.2 Program Description

The parameters of wind speed, wind direction, direction deviation (sigma theta) and temperature are measured and recorded at the single monitoring location. The wind parameters

# FIGURE 1 GENERAL PROJECT LOCATION



CONTOUR INTERVAL 200 FEET WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

were measured by sensors mounted atop a 10-meter meteorological tower. Temperature was measured by a sensor located in an aspirated shield at the 2-meter level on the tower.

The meteorological data are sampled every 10 seconds by a digital Data Acquisition System (DAS) and processed and stored in 15-minute average format and as 8-hour wind speed maximum and frequency distribution data. The DAS digitally stores sine and cosine of wind direction, wind speed, and temperature on a time-averaged basis. The 15-minute and 8-hour data are regularly transferred by mail to Air Sciences Inc. (Air Sciences) for processing and archiving. Environmental Protection Agency (EPA) methods are used to process the 15-minute data into hourly averages of wind speed, wind direction, wind direction deviation (sigma theta), and temperature as suggested in "On-Site Meteorological Program Guidance for Regulatory Modeling Applications," (EPA-450/4-87-013, Sections 6.0-6.4). Processing of the 8-hour data is performed by the DAS prior to the recording of the data onto the solid-state memory module.

Calibrations of the monitoring equipment are performed in accordance with the sampling protocol. Equipment calibration and audit procedures, as well as procedures used for data quality assurance, are based on EPA guideline documentation and are fully described in the monitoring plan. Calibrations were performed during the second quarter of 1990 on May 15, 1990 and records of these calibrations are presented in Appendix A.

### 1.3 Data Recovery

Data recovery rates for all parameters during this quarter are presented in Table 1. Recovery was 81 percent for all meteorological parameters except for temperature which had a recovery rate of 100 percent. Data recovery rates for this quarter of data collection were affected by an act of vandalism that occurred on April 28, 1990 resulting in about 17 days (409 hours) of invalid wind speed, wind direction, and wind direction deviation data. Temperature data was unaffected. The monitoring station was repaired and wind parameter data collection resumed on May 15, 1990. The EPA recommended average rate of recovery for meteorological sampling, stated as an annual average, is 90 percent. For the 9 months of monitoring since station installation overall data recovery is 94 percent for all parameters except temperature which is 100 percent.

TABLE 1

DATA RECOVERY RATES

SOLEDAD MOUNTAIN PROJECT - MOJAVE, CALIFORNIA

APRIL - JUNE 1990

	Quarterly	Overall
<u>Parameter</u> .	(%)	(%)
Wind Speed	81	94
Wind Direction	81	94
Sigma Theta	81	94
Temperature	100	100

## 2.0 METEOROLOGICAL DATA SUMMARY

The meteorological parameters were sampled every 10 seconds and digitally processed into 15-minute averages. The 15-minute averages were transmitted to Air Sciences for quality assurance checks and to be used as input for the calculation of 1-hour averages. All summary data presented in this section was produced by the processing of hourly averaged data into tables of summary statistics and AIRS format tables. The meteorological values of wind speed, wind direction, and temperature, collected during the quarter are presented as hourly averages in AIRS format by month for each parameter in Appendix B.

#### 2.1 Winds

The wind frequency distribution by direction and speed for all atmospheric stability classes shown as Table 2 and Figure 2 (wind rose diagram) shows that the highest frequency of winds was from the northwest accounting for over 41 percent of the total winds. The highest wind speeds were also from the northwest at an average of 17.6 knots (20.2 mph). These northwesterly winds are much higher in speed than the speeds of the other directions. The overall mean wind speed for the quarter was a moderate 13.1 knots (15.1 mph). There were no calm (less than 1 knot) winds recorded. The frequency distributions by direction and speed for each stability class, A through F, are included in Appendix C.

Appendix D contains one table for each month of data collection and displays daily wind speed frequency distributions (histograms). Each table contains the average daily percentages of winds in each wind speed category for each day of the month with a maximum wind gust for the day and a record of the time period in which the maximum wind gust occurred. Time period 1 is defined as the hours of midnight to 8 a.m., period 2 is the hours of 8 a.m. to 4 p.m., and period 3 equals the hours of 4 p.m. to midnight. Frequency distributions were recorded for each 8-hour time period from 10-second wind speed data. These 8-hour histograms were processed by Air Sciences into daily average histograms. The maximum wind gust for the quarter occurred on April 23, 1990 during time period 3 and was 62.7 mph. There were two days with high percentages of average wind speeds greater than or equal to 31 mph; April 24, 1990 with nearly 46 percent and June 6, 1990 with nearly 39 percent.

Table 3 shows the frequency distribution of direction by atmospheric stability categories A through F. Categories A through C (unstable winds) occur in the daytime and categories E and F

(stable winds) occur at night. Category D (neutral stability) winds are transitional between daytime and nighttime conditions. Stability class was calculated by the method of Irwin (1980) which uses wind speed, standard deviation of wind direction, and local sunrise and sunset times for determining daytime and nighttime periods. A nighttime correction is applied to the stability class determination. The assumed terrain mixing height was 15 centimeters. Table 3 shows that the daytime winds blew predominately out of the south southwest to southwest with a secondary peak out of the northwest. The transitional class D winds represented over 71 percent of the total winds recorded at the site and the majority, 40 percent, of these winds were out of one direction, northwest. Table 3 also shows that the nighttime winds had a peak out of the south to south southwest.

TABLE 2
FREQUENCY OF WINDS BY DIRECTION AND SPEED
SOLEDAD MOUNTAIN PROJECT - MOJAVE, CALIFORNIA
APRIL - JUNE 1990

			Speed Cla	ss Interval	s(kts)			
<b>.</b> .								Mean
Direction	<u>1, &lt; 3</u>	<u>3, &lt; 6</u>	<u>6, &lt; 10</u>	<u>10, &lt; 16</u>	<u>16,&lt;21</u>	<u>&gt;21</u>	All	Speed
N	0.2	1.2	0.5	0.2	0.0	0.0	2.1	5.8
NNE	0.2	8.0	0.5	0.1	0.0	0.0	1.5	5.1
NE	0.2	0.7	0.8	0.0	0.0	0.0	1.8	5.4
ENE	0.3	0.2	1.2	0.2	0.0	0.0	1.9	7.1
E	0.4	0.3	0.5	0.2	0.0	0.0	1.5	6.0
ESE	0.2	0.6	0.3	0.1	0.0	0.0	1.1	5.3
SE	0.1	0.7	0.2	0.0	0.0	0.0	1.1	4.9
SSE	0.2	1.5	0.2	0.1	0.0	0.0	1.9	4.7
S	0.3	2.3	0.7	0.2	0.0	0.0	3.5	5.2
SSW	0.3	1.5	2.8	3.0	1.4	0.3	9.2	10.9
SW	0.1	1.4	2.5	4.6	1.1	0.3	10.1	11.4
WSW	0.0	0.6	1.9	1.1	0.2	0.0	3.8	9.3
W	0.1	8.0	1.6	1.1	0.2	0.0	3.8	9.0
WNW	0.0	0.5	1.9	5.0	2.4	0.9	10.6	13.9
NW	0.1	0.3	2.5	12.8	16.5	10.3	42.5	17.6
WNN	0.2	0.5	1.2	1.3	0.2	0.2	3.5	10.4

Calm (less than one knot) = 0.0% Period mean wind speed = 13.1 knots

14.0

2.9

All

TABLE 3
FREQUENCY OF WINDS BY DIRECTION AND STABILITY
SOLEDAD MOUNTAIN PROJECT - MOJAVE, CALIFORNIA
APRIL - JUNE 1990

29.9

21.9

12.0

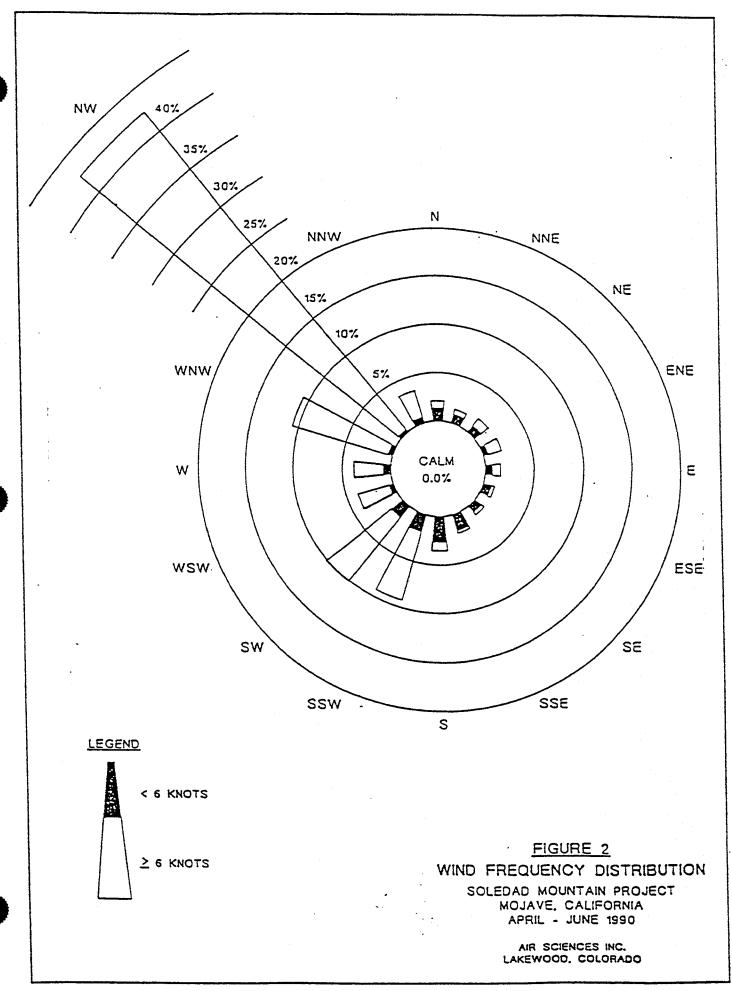
100.0

13.1

19.3

Direction	A	<u>B</u>	<u>c</u>	D	E	E	All
N	0.4	0.1	0.1	0.5	0.2	0.8	2.1
NNE	0.2	0.2	0.1	0.3	0.2	0.5	1.5
NE	0.6	0.6	0.2	0.1	0.0	0.3	1.8
ENE	0.3	0.5	8.0	0.1	0.0	0.2	1.9
E	0.3	0.4	0.2	0.2	0.0	0.4	1.5
ESE	0.6	0.2	0.1	0.1	0.1	0.2	1.1
SE	0.7	0.3	0.0	0.0	0.0	0.1	1.1
SSE	0.5	0.1	0.1	0.3	0.2	0.7	1.9
\$	0.5	0.5	0.3	0.4	0.5	1.5	3.5
SSW	0.2	0.6	1.2	5.9	0.2	1.1	9.2
SW	0.7	0.4	0.8	7.3	0.4	0.5	10.1
WSW	0.3	0.2	0.4	2.3	0.3	0.2	3.8
W	0.3	0.1	0.5	2.2	0.2	0.6	3.8
WNW	0.2	0.1	0.4	9.5	0.2	0.2	10.6
WN	0.1	0.3	1.5	40.3	0.1	0.2	42.5
WNN	0.1	0.3	0.6	2.2	0.0	0.4	3.6
All	6.0	4.7	7.2	71.6	2.6	7.9	100.0

Calm (less than one knot) = 0.0%



## 2.2 Temperature

Temperature data summaries are presented in Table 4. Average temperature for the data collection period was 19.9 °C (67.8 °F). The coldest month of the period was April and the warmest was June. The minimum temperature recorded was 6.9 °C (44.4 °F) and the maximum was 37.9 °C (100.2 °F).

TABLE 4
MONTHLY TEMPERATURE MEANS AND EXTREMES
SOLEDAD MOUNTAIN PROJECT - MOJAVE, CALIFORNIA
APRIL - JUNE 1990
(°C)

Month	Average Daily Maximum	Average Daily <u>Minimum</u>	Daily <u>Average</u>	Monthly <u>Maximum</u>	Monthly <u>Minimum</u>
APR	22.6	11.3	16.8	30.8	6.9
MAY	24.6	11.8	18.4	33.5	7.0
JUN	31.5	17.7	24.5	37.9	7.7
QTR	26.2	13.6	19.9	37.9	6.9

## APPENDIX A Calibration Records

## WIND SPEED CALIBRATION CAMPBELL SCIENTIFIC LOGGER

ensor Model No: 014		_ Client: Cooler Queen Min	`~		
ensor Serial No :		Job No : 56-7-1	_		
ensor Height : 10 ~	^	Site: Soleded	Soledad		
ogger Ser. No. : 539	2	Date : 5-15-90			
lame : <u>): ~</u>	Kins	Time :			
. SYSTEM INSPECTION					
	PASS	FAIL			
Bearings	_ಬಲು_				
Cable	New				
Cups	<u>wew</u>				
II. SYSTEM LINEARITY CHECK	<				
•					
Input Frequency	Target	21X Reading			
<u>(Hz)</u>	(mpH)	(MPH)			
1	<u>(-,8</u>	_1.0			
2. 3.01	6.4	<u> </u>			
3. 4.63	9.3	9.3			
4. 7.37	14.2				
5					
6					
7		· · · · · · · · · · · · · · · · · · ·			
8					
9					
10.					
Target $(mph) = (Hz)$	× 1.789) + 1.0				
Target (m/s) = (Hz :	× 0.798) + 0.44	7			
Comments:					
<del>4</del>					

Signature Since Since 2/87

## WIND DIRECTION CALIBRATION CAMPBELL SCIENTIFIC LOGGER

Sensor	Model No	: 024		Client :	Colden Ou	en Minna
Sensor	Serial No	•		Job No:		<del>-</del>
Sensor	Height	: 10 m		Site	Soluder	
	r Ser. No.	: 5392		Date	5-15-	90
Time		: 12:15	-	Name	: <u>5im</u>	Vine
	•					
I. SYS	TEM INSPE	ECTION				
			PASS	FAIL		
		Bearings	<u> </u>		_	
		Cable	<u>~~~~</u>		_	
. •		Vane	Now.		-	
٠		•			•	
II. SY	STEM LINE	ARITY CHECK				
			Target	2	1X Reading	
	Orientat	ion	(dearees)	_	(dearees)	
1.	Vane		_58.0	-	58.0	
	Tail		<u> 238.0</u>	-	239.6	
2.	Vane		308.0		309.0	
	Tail		128.0		127.4	
3.	Vane		282.5		283.8	
	Tail					
4.	Vane	•	45.5		44.8	
	Tail					
۶.	Vane					
	Tail '					• .
6.	Vane		-			<del>-</del>
	Tail					<del>-</del>
						·
Cor	mments:	Declina	tion 15	<u>5 Deg</u>	Fast	
		Sensor	Slope =	0.71	878	
		Set.	<u> </u>	179.8		
		•	<b></b>		1. 11	2:
			Sign	ature	4n /	_^

## TEMPERATURE CALIBRATION CAMPBELL SCIENTIFIC CR10 LOGGER

ensor Model No: 107		Client : C	Estan Queen Minin
ensor Serial No: N/A		Job No :	58-7-1
ensor Height : 2 m		Site : <	jolad.
ogger Ser. No. : 5397		Date :	5-15-90
vame : Jim Kin	ج	Time :	11:00 - 13:00
. SYSTEM INSPECTION  Radiation Shield  Cable	PASS  / /	FAIL	
II. SYSTEM PSYCHROMETER CHECK			· ·
Psychrometer ( )		CR10 Reading	
Measured Corrected		(degrees)	•
1. 16.9		16.9	•
2		17.4	
3		19.3	
4. 70.8		70.8	
S. <u>714</u>			
6. <u>27.</u>		27.6	
7		23.1	
8.			
9			
10.			
Average			
Comments:			
	-		
		·	

Authoritation was

# APPENDIX B AIRS Tables

HOURLY AVERAGED HIND SPEED APRIL 1990 SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA UNITS ARE TENTHS OF A HETERS PER SECOND

	AVG	! !	22	E :	45	23	20	7	5	2 0	60	ရှိ ရ	35	100	65	36	39	28	69	65	70	41	70	S	88	11	125	98	99	49	75	=	:	:	19
	23		46	13	13	70	45	79	22	3 6	2 4	7	9/	115	85	32	25	20	33	24	9	72	47	25	29	112	105	33	122	52	*	<b>*</b>	*	1	59
	22	;	=	53	7.1	7	47	46	=	5 6	Ξ;	-	63	113	82	<b>5</b> 8	20	21	30	21	20	70	46	36	83	197	118	121	173	36	*	*	*	:	63
	21	: :	20	1	3	70	47	38	70	100	2 6	<u>9</u>	99	118	88	47	40	23	36	44	99	78	33	23	75	126	126	135	96	48	*	*	*	1	19
	20	1 3	33	71	4	<del>2</del>	62	38	2 0	ה ה	2 2	7	72	116	20	20	34	46	99	20	69	89	46	99	74	89	131	=======================================	16	7.1	*	#	#	:	58
	19	: :	45	7	20	70	19	40	2	3 8	\$ G	36	23	115	98	45	62	28	54	32	80	63	19	<i>L</i> 9	83	94	140	14	8	99	#	*	*	t t	99
	18	1 1	69	Ξ	44	37	64	28	3 2	2 5	<u>2</u> :	45	23	128	3	42	64	49	65	99	87	65	7.5	72	103	<b>≅</b>	158	114	8	23	*	**	*	1	73
	17	ŧ :	83	34	45	22	91	57	5 9	2 4	2	29	2	126	83	63	74	75	16	85	97	28	83	19	110	83	166	=	118	83	*	*	*	:	82
	16	-	85	36	2	1	98	69	3 2		8C.	20	<b>52</b>	111	8	53	98	93	74	66	98	28	91	61	120	63	172	112	128	88	*	*	*	į	#
	5	! !	8	35	25	22	84	e e	3 5	2	971	21	82	121	53	35	80	93	79	94	8	65	93	59	=	62	164	26	7	88	*	*	*	:	75
	14	f f	35	35	49	53	12	. 7	ב ב	2	= 3	53	23	121	7.7	39	99	11	83	86	50	71	62	64	93	86	170	28	109	46	*	*	*	1 1	9
	13	1	33	30	62	32	89	2 =	- 5	9	120	52	23	110	23	27	52	83	79	96	33	54	99	99	104	.78	160	23	83	30	*	*	*	1	44
:	12	1	23	36	72	77	2	, ,	7 6	79	122	3	53	66	30	28	34	7	84	86	3	38	200	43	1	5	158	42	67	24	*	*	**	† E 1	200
}		1 1	33	37	7	5	4	;	2 6	8	=	33	87	86	34	33	38	2	8	88	4	33	52	37	112	9	163	28	49	33	*	*	.#	:	2
	10	1	22	35	62	2	3 %	2 7 6	ي چ .و	9	185	34	28	83	3	38	3 55	3 =	2	93	£	30	23	38	105	28	152	24	78	38	, <b>*</b>	*	*	1	77
	6	t !	72	Ξ	49	: =	3 8	ה	ಜ :	9	74	22	25	79	74	5	: =	3 2	9 %	3 2	2	73	: 52	23	112	89	156	35	98	7	19	2 #	#	1	: 5
	ထ	!	41	Ξ	46	بر	7	- L	<u>د</u> :	44	89	20	16	11	::	: 2	. K	3 2	36	æ	8 8	2 %	<u>.</u> بر	E	196	23	143	33	185	2	2	` #	*		: :
	7	1	67	£	67	; <del>;</del>	3 5	5 5	25	22	106	16	11	8	35	2 2	- =	- 0	5	8	8 8	۶ ۲	2 6	8	5	3	122	78	112	7	5 6	3 #	=		
	9	1	3	26	45	? ?		- ;	2	23	45	15	-	٤.	2 2	7	<u> </u>	~	ב ע	, A		: ::	3 6	8	2 9	3 5	200	23	113	2 5	3 5	5 #			: 5
	្ទ	1	g G	-	3,	3 =	- 2	ç :	44	34	46	37	~	7,	2 2	; ;	3:	- 2	3 6	2 6	2 6	2 2	2	2 2	<u>.</u> د	3 5	22	73	116	2 6	5 5	2 #			5
	4	1	6	33	2 2	3 =	= 6	3	58	32	36	52		76	2 5	5 7	, d	2 5	2 0	3 6	77	8 4	<u>.</u> د	5 F	3 2	3 8	25	74	: 2	3 2	2° C	7 #		I	:
	. ~	1	-	7	: ¥	3 =	, 5	7¢	=	23	71	11	. ¥	2	100	3 5	? e	2 6	2 2	, c	2 6	2 5	3 5	- 0	, e	2 2	115	::	. 2	, F	S 5	7 :		, }	
	7	!	6	3 %	3 %	א ל	C 2	200	88	61	28	<u>د</u>	3 =	2 6	נפנ	3 5	3 5	2	_ 	ה כי	מ	2 7	<u>-</u> 2	<u> </u>	א מ	. c	79	8	140	3 6	2 8	2 :	: #	:	:
	-	1	70	2 2	3 0	<b>.</b>	<u> </u>	75	7	9	24	9	3 =	- ¥	2 0	3 7	F 6	۵, د	75	00	⊋ <b>(</b>	26	77	T [	ני מ	3 6	7 C	: 5	. Ľ	ດິລ	2 2	2:		•	:
	6		6	7 7	5 -	- ;	5 5	2	35	11	2	ر د	3 =	= 2	100	3 2	2 5	<b>7</b>	7 <sub>6</sub>	2 :	<u>-</u> :	£ 6	0 <b>7</b>	<u> </u>	7	2 4	) <b>7</b>	5 6	3 =	= =	<u> </u>	લ :		•	:
	DAY		-	<b>-</b> ເ	<b>4</b> 6	<b>-</b>	er e	S	9	7	· ec	•	٦ ,	<u> </u>													57	·	Ī	•	7	97 G	62	aç P	'

\* Indicates calibration of sensors

\*\* Indicates invalid data

AIR SCIENCES INC. SAROAD(V6.0) 08/01/90

# HOURLY AVERACED HIND DIRECTION APRIL 1990 SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA UNITS ARE DEGREES AZIHUTH

E	198 103 113 110 117 117 117 117 117 117 117 118C.
2 2 2 3 1 6 9 1 6	23333333333333333333333333333333333333
222 118 164 164 162 163 163 118 118 118 118 118 118 118 118 118 11	299, 299, 299, 299, 299, 299, 299, 299,
211 196 175 175 175 175 232 232 311 311 311 312 232 232 232 232	217 218 290 297 309 307 295 301 275 281 292 291 312 316 318 316 229 269 *** *** *** *** *** ***
28 215 48 209 163 300 218 218 212 298 212 212 214	290 309 309 275 275 249 318 318 288 229 229 8**
19 243 347 2236 169 313 313 302 230 230	2271 305 305 305 305 325 325 325 325 325 325
18 316 115 2218 2225 381 312 318 318 318 271 271	250 313 313 313 313 250 250 265 265
17 101 101 101 101 101 101 101 101 101 1	3316 3316 3312 3312 3312 3312 3312 3312
16 321 321 105 1105 311 315 315 223 223	2211 3316 3315 3315 3316 3316 3316 3316
25 87 87 87 87 81 81 81 81 81 81 82 87 87 87 87 87 87 87 87 87 87 87 87 87	221 316 316 228 228 228 321 3312 3312 **
14 69 135 2212 2212 3305 3310 1114 1138 2219	2215 307 317 317 317 317 317 4 * * * * * * * * * * * * * * * * * * *
13 124 167 191 191 1181 1183 1183 1183	219 313 320 2200 2200 3314 **
12 119 98 2228 2228 315 42 153 316 137 264	2223 316 316 312 312 312 313 313 **
75 75 75 191 220 221 220 3324 67 164 78 63 29 63	226 307 307 303 311 311 322 326 326 **
18 82 82 82 23 214 211 323 56 59 65 65 65	219 319 319 323 338 315 322 **
9 41 41 75 75 275 275 275 318 87 87 88 88 88	219 311 321 321 321 3323 44 319 319
8 341 30 68 68 322 322 332 34 172 172 176	228 313 313 324 324 328 3328 3388 3388 3388
7 23 23 23 45 326 326 340 191 167 167 167 167 167 167 293	223 312 312 283 315 315 315 317 325 359 317 325 359 359
6 27 27 27 27 27 27 27 27 27 27 28 28 28 28 28 28 28 28 28 28 28	2228 289 3102 3112 3117 3117 3117 3117 3117 3117 311
5 323 26 323 223 225 225 225 225 331 331 231 245 331 245 331 245	222 2214 222 3323 3323 4 # # 4 2333 8 # # 4 2333 8 # # 4 12 # # 4
	215 222 286 211 311 311 311 311 312 329 331 329 319 319 319 319 319 319 319 319 319 31
315 344 344 344 315 322 322 312 315 315	0 * * 76 50 77 88 77 88 87 88 88 88 88 88 88 88 88
316 316 316 317 317 318 318 318 318 318 318	d a o
317 317 317 317 317 317 317 317 317 317	· 10
316 3316 3316 3316 3316 3316 3316 3316	_
	nd ic
00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16 119 119 119 12 12 13 13 13 14 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18

NOURLY AVERAGED TEHPERATURG APRIL 1990 SOLEDAD HOUNTAIN PROJECT - NOJAVE, CALIFORNIA UNITS ARE TENTHS OF A DEGREE CELSIUS

AV6 173 165 161 173 172 172 173 163 163 174 174 174 174 174 174 174 174 174 174	
23 143 116 116 1174 1174 1174 1174 1174 1176 1176	INC.
22 132 163 165 168 168 174 178 178 178 179 179 179 179 179 179	LENCES
21 132 133 133 145 154 173 173 173 173 174 175 175 175 175 175 175 175 175 175 175	IR SCI
28 145 155 113 164 155 1135 1136 1136 1137 1137 1138 1138 1138 1138 1133 1133	æ
162 162 168 168 168 168 168 168 168 169 169 169 169 175 175 175 175 175 175 175 175 175 175	
178 178 172 175 175 177 178 178 178 178 178 178 178 178 178	
173 192 192 193 193 193 193 193 198 198 198 198 198 198 198 198 198 198	
16 213 222 222 222 222 267 214 148 241 1153 1165 228 228 228 228 186 146 146 146 146 146 146 146 146 146 14	
227 227 227 227 227 232 243 268 227 226 227 226 227 227 228 228 228 228 228 228 228 228	
234 2234 2234 2239 2241 2339 2339 246 246 246 247 247 248 248 263 263 263 263 263 264 264 264 264 264 264 264 264 264 264	
13 232 231 232 233 234 234 263 263 263 263 263 263 263 263 263 263	
12 222 227 224 224 224 224 226 226 226 226 226 226	
11 220 220 220 220 150 224 227 130 162 163 163 163 163 164 170 164	
195 195 195 195 195 195 195 195 195 195	
199 199 199 199 199 199 199 1199 1199	
163 172 172 173 173 173 173 173 173 173 173 173 173	
155 1155 1137 1138 1138 1138 1138 1138 1138 1138	
125 127 127 123 123 124 124 127 127 127 127 127 127 127 127 127 127	
132 132 167 168 173 173 173 173 173 173 173 173 173 173	0.5
133 127 127 127 127 128 128 128 128 128 128 128 128 128 128	sens
132 132 132 132 133 133 133 133 133 133	jo uo
135 135 135 135 135 135 135 135 135 135	bration
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*****
145 145 145 145 145 145 145 145 145 145	
DAY 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	* Indi

<sup>\*</sup> Indicates calibration of sensor \*\* Indicates invalid data

AIR SCIENCES INC. SAROAO(V6.0) 08/01/90

HOURLY AVERAGED HIND SPEED
HAY 1990
SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA
UNITS ARE TENTHS OF A HETERS PER SECOND

	AVG	:			<del>=</del>	*	<b>:</b>	*	*	*	*	*	*	*	*	*	83	4	23	63	78	89	63	42	73	105	75	28	69	78	97	84	83	: 6	?	
	23	•	•	₩ ₩	*	*	*	<b>*</b>	*	*	*	*	*	*	**	*	78	7	47	20	99	3	45	11	88	97	64	46	21	96	69	23	93	! (	89	186
	. 55		•	*	*	*	*	=	*	*	*	*	*	=	*	*	83	3 %	č	5	. 7	84	35	14	115	35	19	35	26	35	95	63	93	; ;	1.9	SAUKS
	71	1 ;	*	<b>*</b>	*	*	*	**	**	*	*	*	*	*	*	*	99	2 8	76	2 2	11	85	47	56	109	106	70	39	13	108	96	74	61	1 1	73	100 0
	70	1 1	<b>*</b>	*	**	*	*	*	*	**	*	**	*	*	*	*	3.0	2	74	: 6	3 8	2 6	62	78	8	118	70	38	99	107	83	11	103	: :	79	
	13	1 :	*	*	*	*	*	*	*	*	*	**	*	*	*	*	5.4	5 5	7.	3 %	3 4	2 6	£ 5	21	8	118	67	42	61	63	99	70	95	;	11	
	18	1	*	*	**	**	*	*	*	**	*	*	*	*	*	*	191	2 2	2,0	2 5	= =	= 5	- 8	76	83	118	54	72	74	76	189	28	115	:	8	
	11	!	*	:	*	, <b>#</b>	*	*	*	×	*	*	*	*	*	**	105	50	8 6	3 6	2 6	200	א לי	5 12	8	117	89	84	83	8	6	83	117	! !	98	
	16	!	*	*	*	**	*	*	*	*	*	*	*	*	*	*	100	<u> </u>	3 5	= 5	ñ	10.4	5 6	4	113	13	80	96	96	187	196	6	36	:	83	
	15	:	*	*	**	*	*	*	*	: #	. *	*	<b>*</b>	. #	*		. 00	200	ج د	2 5	S ?	<u> </u>	5 E	2 4	129	129	96	6	6	; <del>E</del>	185	6	3 8	!!	93	
	14	1 1 1	*	#	*	*	*	* *		;	: ;			: :	. *	; ;	• •	= 8	<b>8</b> 7	<u></u>	<u> </u>	g 5	3 2	2 T	120	113	£	3 2	: 5	17	100	185	108	1	9	
	13	1	*	*	*	*	*		; ;	: ;	* 1	; ;	: :	;	: :	; ;	• •	<u></u>	52	22	٤ :	188	£ (	2 6	118	11:0	7	: 6	4 %	118	707	101	124	1	95	ļ 1
	12	!!!	*	*	*	. <b>*</b>		: ;		# 1 # 1	# 1 # 1	• ;	: ;	4 ·	• •	<b>4</b>	# ·	104	36	5	5.	104	8 8	£ 0	נסנ	7 6	3 &	5 5	- 6	197	70	107	112	. 1	85	) }
;	=	1	**	*	•	: :	: ;	• 1		# :	* :	* 1	• •	* 1	* 1	* :	₩ 1 ₩ •	6	£	99	28	105	80 K	સ ૧	3 3	ر د	2 2	2 5	5	9 6	200	ر د و د	198	)    -  -	78	2
	10	!	**	*	•	: ;		* 1	* ;	*	*	₩ 1 ₩ 1	*	× :	* ;	*	*	<b>*</b>	47	88	36	=	8	87 S	2 5	7/5	701	<u>.</u> .	20	20	2 5	797	188	) ( ) (	76	2
	6	!	×	*		• •	• :	₩ :	*	*	*	# ·	*	<b>*</b>	# ·	* *	*	<b>*</b>	49	74	33	6	105	7	3	7	2 5	£ 5	<u> </u>	70	2 5	99.	29 88	3	7.4	<u>_</u>
3	ဆ	1	*	:	•	• (	*	<b>*</b>	** **	<b>*</b>	*	<b>*</b>	*	<b>*</b>	<b>*</b>	<b>*</b>	<b>#</b>	*	32	63	12	93	19	æ :	£ (	75	5 <u>0</u> 1	<u> </u>	₹ :	£ ;	ç,	187	183 28	2	70	2
,	7		:	;	•	<b>*</b>	₩ ₩	*	*	*	*	<b>*</b>	<b>*</b>	#	<b>*</b>	*	<b>*</b>	*	52	42	74	105	105	7	78	æ ;	169	<u>ده</u> :	<b>e</b> :	<u> </u>	9	106	96	5	70	0/
	9	•	! •	: ;	# #	*	*	# #	*	*	*	*	*	*	*	*	*	*	22	23	7	93	35	88	<del>8</del>	æ ;	128 871	76	5	42	48	103	99	 F	3	40
	L.	•	! !	•	*	<b>*</b>	<b>#</b>	*	*	**	*	<b>*</b>	*	*	**	<b>#</b>	**	#	79	14	20	38	16	93	27	45	75	<u></u>	79	32	21	3	53	-6		ors
	7	•		<b>.</b>	*	<b>*</b>	**	*	*	<b>:</b>	# #	*	*	*	##	*	*	*	15	7	92	78	99	81	70	19	6	8	34	74	44	6	49		! !	S
	~	,		<b>.</b>	*	*	<b>#</b>	<b>:</b>	=		*	*	#	**	*	<b>#</b>	**	*	42	. 8	9	62	64	101	23	13	102	93	56	93	20	78	58	φ.		59 00 0
	·	4	!	<b>*</b>	*	<b>:</b>	*	#	**	*	*	*	**	*	**	*	*	*	71	: ==	53	5	78	182	52	16	108	96	33	92	2	74	86	4		•
	-	-	•	<b>*</b>	* *	:	<b>#</b>	*	=	*	*	:	=	**	*	**	#	*	86	3 =		28	114	88	4	21	<b>≅</b>	83	62	63	42	66	84	36	;	62 53 1 i b
	•	9	1	<b>:</b>	**	*	:	**	=======================================	*	*	**	*	*	*	*	**	*	75	2 4	2 5	2 2	191	78	20	97	98	83	69	34	20	98	83	24	:	59
	_		•		_			۔.			_ ~	. –			- ~	د	· -			~ ~	- ~	o <i>e</i>	\ <b>6</b>		۰ حا	, <b>~</b>	~	ĸ	•	_	. 000	. 6	. 69			AVERAGE
	•	E C	į	_	. •	, ,-1	, ~		. ~		- •		7		- ;-	- `-		- 7	<b>≟</b> ₹			1 0	- ~	2	7	7	~	2	~	~	7	~	. ~	~		AVE

AVERAGE 59 02 vr ... \* Indicates calibration of sensors \*\* Indicates invalid data

HOURLY AVERAGED HIND DIRECTION
HAY 1990
SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA
UNITS ARE DEGREES AZINUTH

23	*	*	*	#	*	*	**	**	**	**	*	**	**	**	304	<u>~</u>	3.0	200	77	2 C C	<u> </u>	57	133	19	110	96:	36	113	801	93	49	88	,	INC.
22	*	<b>*</b>	**	*	*	**	*	<b>*</b>	<b>#</b>												-					•	•		•			•	•	SCIENCES
21	*	*	<b>:</b>																															SCII
28	*	*							*																									AIR
19	**	*																																;
18																																		
11																																		
16																																		
15																																		
· <del>**</del>																																		
E																																		
12																																		
=																																		
10																																		
6																																		
<b>&amp;</b>																																		
1																																		
9	:	• •							* 1																									
2	.• 		m (			H (	* 1 * 1	# :	# ·	# 4 # 4	# †		# . ·	*	<b>*</b>	<b>*</b>							, ,											sa.
4	:	<b>*</b>	# :	<b>.</b>	<b>*</b>	₩ .	# ·	<b>*</b>	<b>*</b>	# ·	<b>.</b>	* :	<b>.</b>	× ·	<b>*</b>	*							1007											sensor
3	1 :	<b>.</b>	<b>*</b>	# ·	<b>₩</b>	# :	<b>.</b>	* *	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	*	*							230 4 100 1								315 3			oę
7	-	*	*	₩ ₩	<b>*</b>	<del>~</del>	<b>*</b>	<b>*</b>	<b>*</b>	*	*	*	<b>*</b>	# *	#	<b>*</b>							7 716						_		322 3			ration id data
_	;	<b>*</b>	*	<b>*</b>	<b>*</b>	<b>=</b>	<b>*</b>	<b>*</b>	*	*	<b>*</b>		*	*	=	<b>.</b>							388 J						-					calibrati
•	!	=	 *	 #		**	 #	**	 *	*	 *	*	 *	*	*	=							293											S E
	ı	-						-									7	<del>.</del> ر	<del>ہ</del> ۔	٠ <del>-</del>	- ~	n ĉ	√ č	<b>n</b> ?	- ?	n (	~	m :	~	~	m	Č	_	Indicates
DAY	1	_	7	<del>د</del>	~	S	9	7	<b>&amp;</b>	9	10	=======================================	12	13	14	15	14	2 5	- 0	0 5	2 6	2 5	7 6	77	23	24	25	<b>5</b> 6	27	28	29	30	5	* #

\*\* Indicates invalid data

SAROAD(V6.0) 08/01/90

# SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA UNITS ARE TENTHS OF A DEGREE CELSIUS HOURLY AVERAGEO TEHPERATURE HAY 1990

AVG 158 223 223 223 223 223 237 199 178 178	193 206 177 169 202 1187 1188 1178 1178 1178 1178
23 155 188 2247 2229 1138 1132 1120	176 131 152 168 1158 1131 1131 1137 1163 1163 117 117 117 117 116 117 116 117 116 117
	176 136 1152 1152 1152 1132 1136 1148 119 119 119 119 119 119
	178 1154 1157 1157 1157 1157 1158 1169 1171 1171 1171 1171 1171 1171 1171
	178 177 146 171 146 155 155 156 156 156 156 156 156 157 167 167 167 173 173 173 174 128 128 129 159 159 159 159 159 159 159 159 159 15
	183 174 174 174 174 173 173 174 175 176 177 178 178 178 178 178 178 178 178 178
	195 205 178 178 178 183 1189 1189 1189 1198 1198 1199 1199
	2213 2228 1194 1194 1195 1195 1196 1196 1196 1196 1196 1196
	2229 2221 2221 2238 2238 2238 2238 2238 2238
	246 2272 2272 2272 2272 2272 2274 2274 2
	257 257 257 257 258 257 258 258 258 258 258 258 258 258 258 258
	264 2 245 2 245 2 245 2 245 2 2 245 2 2 2 2
	2257 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	249 278 278 278 278 278 278 278 278 278 278
	232 232 235 235 235 235 235 235 235 235
	2218 222 223 2224 2224 2224 2224 2224 2224
	2223 267 27 27 27 27 27 27 27 27 27 27 27 27 27
	187 187 187 187 187 187 187 187 187 187
	1 168 1 146 1 146 1 146 1 146 1 146 1 147 1 145 1 145
4 6 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0
3 145 133 145 145 165 175 175 175 175 175 175 175 17	
	141 1125 1125 1138 1138 1134 1137 1137 1137 1130 1100 1100 1100 1100
	124 114 127 126 126 126 126 127 139 139 139 137 137 137
	148 116 123 117 117 117 117 117 118 119 119 119 119 119 119 119 119 119
118 118 183 183 225 119 119	12 151 13 178 14 126 15 138 16 154 19 106 19 106 12 167 12 167 13 136 14 99 15 119 16 168 17 169 18 162 18 162 19 115 10 143 11 107
DAY 110 110 110 110	12 13 14 15 16 17 19 22 23 23 24 25 26 27 28 29 29 31 31 4 Indie
	<b>₹"</b> #

HOURLY AVERAGED WIND SPEED JUNE 1990 SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA UNITS ARE TENTHS OF A HETERS PER SECOND

	co.		, _			_																												
	AVG	ā	2 4	99	92	107	131	83	52	9	65	75	94	75	61	88	63	52	58	49	31	39	22	49	22	88	107	83	86	25	2	!	70	
	23																																	727
	22	1 0	£ 5	122	117	111	136	119	34	67	45	45	88	20	30	105	13	36	94	18	99	71	76	52	64	113	106	130	11	77	3	!	12	יות כי
	21																																	200
	20																																	-
	19	103	29	117	114	107	155	114	97	54	25	75	72	80	25	83	67	21	78	72	62	32	46	26	64	106	70	193	87	30	41	:	11	
	<del>1</del> 8																																	
	11																																	
	16																																	
	15																																	
	14																																	
	£.																																	
	12																							•										
: :	=																																	
<u>:</u>			_																															
:	9 10																																	
:	8																																	
•	7 8																																	
	9																															•		
	2			28																												•		
	~			2 2																														SOLS
	<del>س</del>			0 15																												•		f sen
	2 3																															-		0 0
	1 2																																	brati
	-																															•		cali
	•		2 2	ă ic	132	118	9	130	2	28	25	63	34	26	18	33	93	6	55	100	=======================================	22	19	18	9	65	108	108	119	69	26	ţ		cates
	DAY	1	- ر	4 ~	· •	. C	9	-	ထ	6	10	=	7	<u></u>	=	<u>5</u>	10	11	8	19	20	21	22	23	24	25	56	27	28	29	30		ERAGE	Indic
																																	¥	* :

\*\* Indicates invalid data

AIR SCIENCES INC. SAROAD(V6.0) 08/01/90

# HOURLY AVERAGED HIND DIRECTION JUNE 1990 SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA UNITS ARE DECREES AZIHUTH

23	316	312		2 5	167	328	314	184	308	308	221	341	215	208	325	305	319	301	83	303	176	193	286	373	312	362	313	307	310	202		1 MC.
22	316	389	2 :	2 5	767	<u>}</u>	34	199	313	300	227	321	226	188	318	309	265	311	56	313	187	187	278	3	312	318	3	310	262	198	2011	6.0) 08/0
21	317	303	3 5	2 5	767	315	313	287	308	232	259	325	226	235	321	389	161	316	321	311	363	211	281	3	314	314	318	31	245	202		AIR SCIE SAROAD(V6.0)
20	387	306	318	2 5	967	315	314	307	315	237	293	314	228	290	315	300	204	318	313	307	304	221	259	314	318	303	314	303	248	226	•	H BROAC
19	299	307	383	350	593	315	311	316	309	256	275	303	223	214	313	305	225	324	314	309	235	233	227	33	320	294	318	388	257	283		G1
18	307	369	795	316	7.67	313	308	314	308	284	281	313	222	213	315	303	217	317	333	267	221	222	220	306	316	31	316	306	234	271		
11	314	314	314	314	302	318	311	318	317	300	301	316	221	215	316	294	213	316	67	239	227	218	216	310	321	324	316	311	215	220		
16	321	342	321	318	310	315	316	303	272	308	303	316	222	216	314	186	213	319	74	231	226	213	220	318	324	326	315	314	218	213		
15	320	147	321	324	312	300	333	219	246	317	315	319	222	211	388	228	212	321	70	123	221	207	217	311	320	325	315	323	212	212		
14	315	171	323	321	316	302	13	205	239	320	319	317	220	218	313	113	212	319	28	123	215	211	218	203	323	319	309	323	200	212		
#	354	239	762	325	320	308	346	194	215	319	328	320	220	287	316	187	221	314	62	145	228	205	214	209	332	321	316	314	202	210		
12																																
=	28	124	207	321	319	311	23	228	233	316	32	338	222	285	311	2	214	241	. 5	96	191	218	212	223	569	320	314	321	287	224		
10	124	98	200	318	320	962	E	11	213	318	112	324	213	28K	310	, y	713	25.2	9	63	169	201	206	212	279	315	305	3 2	23	211		
6	-	37	216	314	312	306	3	118	217	נונ	21.5	318	200	210	313	ر د	191	30.	5	58	156	200	209	222	316	309	111	300	226	216		
	117																															
	316																															
	210																															
ς.							_	_								_														888		
7	1 6	<u> </u>																										•	•	308	20	
~	1 6	ر در 203	3 5	334	30.	100	200		243	9 5	705	970	240	200	2 G	3.5	<u>.</u>	֧֝֝֝֝֟ ֓֞֞֞֞֞֓֞֞֞֞֞֜֞֞֞֞֞֜֞֞֞֞֩֞֞֜֓֞֞֜֜֞֜֓֓֞֡	2 5	0 <del>1</del> 0	מי	200	֓֞֜֜֜֜֜֜֜֜֜֜֜֓֓֓֓֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	9	27	3 6		7 2	. י כי ע	988		
~																														306		d da
-																														200	-0	nvali
83					-															-		•		·				- •	•	300		tes
DAY		c	4 ~	) <del>&lt;</del>		., c	. 7 °		œ ·	on ;	9	<u></u> :	15	Ξ:	7	5	9	<u> </u>	æ :	62 6	9.7 7	7 6	7 77	7 7	- L		07	7	97	67 67	Todica	** Indica

HOURLY AVERACED TEHPERATURE JUNE 1990 SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA UNITS ARE TENTHS OF A DEGREE CELSIUS

		168																																
7.	3 ;	156	221	203	201	214	201	208	215	202	202	200	194	101	133	165	191	193	189	220	274	222	201	204	244	236	263	231	230	264	335	;	.01	911
		154																																
		158																																
		153																												_		•		
		159																														•		
		178																																
		282																																
		222																																
		237																														-		
		249																														•		
		248																																
		233 2																																
		99 221																														•		
		14 209																														•	•	
		5 194																																
		1 165																																
		4 141																														•	•	
Le*		114																														1 1	220	
_		191	15.	216	193	203	198	185	211	237	201	194	197	132	102	112	160	182	174	181	193	253	247	198	210	228	231	256	210	209	251	1 1	193	0.5
		108																														1	182	sens
-		111																														-	186	n of
·	3 1	113	146	200	198	199	191	188	206	218	192	186	193	160	11	110	154	179	181	184	219	255	230	169	186	526	229	249	209	223	253	1 6 5	191	ratio
-		108																														:	195	calibra
		11																														•	788	ates (
2	ייי	; <del>-</del>	7	<b>ش</b>	4	2	9	-	89																									Indica
Ž	ادَ	i										_		-	<del>-</del>	_	<u>~</u>	_	=	تَ	7	~	7	7	2,	7.	<b>2</b> ¢	2.	<b>58</b>	73	36		ü	* ;

\*\* Indicates invalid data

AIR SCIENCES INC. SAROAD(V6.0) 08/01/90

# APPENDIX C

Frequency Distributions by Direction and Speed For Each Stability Class

# FREQUENCY OF WINDS BY DIRECTION AND SPEED FOR STABILITY CLASS 'A'

## SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA

			Spee	d Class	Interva	ls(kts)			Hean
Di	rection	1,<3	3,<6	6,<10	10,<16	16,<21	>21	_ all	Speed
_	Я	0.0	6.6	0.0	0.0	8.8	8.8	6.6	4.7
	HNE	8.8	3.8	0.0	0.0	0.0	0.0	3.8	4.8
	NE	0.9	9.4	0.0	8.8	9.8	0.0	10.4	4.6
	ENE	8.9	3.8	0.0	0.0	9.9	0.0	4.7	4.4
,	E	8.8	5.7	0.0	0.0	0.0	0.0	5.7	4.4
F	ESE	8.9	8.5	8.8	0.8	0.0	8.0	9.4	4.3
	SE .	0.9	18.4	0.0	8.9	8.8	9.9	11.3	4.4
	SSE	0.9	7.5	0.0	8.8	8.0	0.0	8.5	4.4
	S	0.9	6.6	0.0	0.0	9.0	8.8	7.5	4.6
	SSH	0.0	3.8	8.8	9.8	9.0	8.8	3.8	5.2
	SH	8.9	16.4	0.0	0.0	0.0	0.0	11.3	4.7
	RSR	0.0	4.7	8.8	8.8	0.0	0.0	- 4.7	5.4
	Q	8.8	5.7	0.9	9.8	0.0	9.9	5.7	5.2
	HNA	0.0	3.8	0.0	9.8	0.0	0.0	3.8	5.2
	NA	0.0	1.9	0.0	0.0	0.0	8.8	1.9	5.5
	HNA	0.0	0.9	8.8	0.8	8.8	9.8	0.9	5.4
	All	6.6	93.4	8.8	0.0	0.0	9.0	100.0	4.7

Calm (less than one knot) = 0.0%
Period mean wind speed = 4.7 knots
Percent occurrance for 'A' stability class(es) 6.0%

AIR SCIENCES INC. SBRIND(1.2) 08/01/90

# FREQUENCY OF WINDS BY DIRECTION AND SPEED FOR STABILITY CLASS 'B'

# SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA

		Spee	d Class	Interva	ls(kts)			Hean
Direction	1,<3	3,<6	6,<10	10,<16	16, <21	>21	A11	Speed
И	9.0	0.0	2.4	9.8	0.0	0.0	2.4	6.4
NNE	8.8	2_4	2.4	0.0	0.0	0.0	4.8	5.9
NE	0.0	0.0	11.9	0.0	0.0	0.0	11.9	6.5
ENE	0.0	0.0	10.7	8.9	0.0	0.0	18.7	6.7
Ξ	0.0	8.8	8.3	0.9	9.0	0.0	8.3	6.6
ESE	0.0	1.2	2.4	0.9	0.0	9.8	3.6	6.4
SE	8.8	1.2	4.8	0.0	0.0	9.0	6.0	6.8
SSE	9.0	0.0	2.4	0.0	0.0	0.0	2.4	6.5
S	0.0	2.4	7.1	9.8	0.0	8.0	9'.5	6.5
SSR	0.0	1.2	10.7	0.0	0.0	8.8	11.9	6.9
SH	9.8	3.6	4.8	9.9	0.0	8.0	8.3	6.2
WSR	9.9	9-9	4.8	0.0	0.0	0.0	. 4.8	7.8
Я	0.0	0.0	2.4	0.0	0.0	0.0	2.4	7.1
กหต	9.9	0.0	1.2	0.9	0.0	0.0	1.2	7.6
NU	0.9	0.0	6.0	0.0	9.0	0.0	6.0	7.8
หหน	0.0	1.2	4.8	0.0	8.8	0.0	6.0	6.4
All	9.8	13.1	86.9	9.0	0.0	0.0	100.0	6.6

Calm (less than one knot) = 0.0%
Period mean mind speed = 6.6 knots
Percent occurrance for 'B' stability class(es) 4.7%

AIR SCIENCES INC. SBHIND(1.2) 08/01/90

# FREQUENCY OF WINDS BY DIRECTION AND SPEED FOR STABILITY CLASS 'C'

# SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA

		Spee	d Class	Interva	ls(kts)			Hean
Direction	1, <3	3,<6	6,<10	10,<16	16,<21	>21	all	Speed
И	0.8	0.0	9.8	8.8	8.8	0.0	1.6	9.4
NNE	0.0	9.8	0.8	0.0	0.0	0.0	1.6	5.2
HE	0.0	9.8	2.4	9.8	0.0	0.0	2.4	7.5
ene	0.0	0.0	9.4	1.6	0.9	8.8	11.0	9.4
E	0.0	0.0	1.6	9.8	0.0	8.8	2.4	9.3
ESE	8.8	0.0	1.6	0.0	0.0	9.8	1.6	8.3
32	9.9	0.0	8.8	0.0	0.0	0.0	9.8	8.8
SSE	0.0	8.8	0.8	0.0	0.0	0.0	8.8	8.8
, s	0.0	1.6	1.6	9.8	8.8	0.0	3.9	7.5
SSH	0.0	9.0	11.0	6.3	0.0	8.0	17.3	9.5
SA	0.0	0.9	7.1	3.9	0.9	0.0	11.8	9.6
RSH	9.8	0.0	3.1	2.4	0.0	9.0	5.5	9.7
Я	8.8	0.0	4.7	1.6	8.8	0.0	6.3	9.9
HNA	8.8	8.8	2.4	2.4	9.0	8.0	5.5	8.4
KU	0.0	8.8	12.6	7.9	9.0	8.8	20.5	9.8
nna	0.0	0.0	. 3.9	4.7	0.0	8.8	8.7	9.9
All	0.0	3.1	63.8	33.1	0.8	8.8	100.0	9.4

Calm (less than one knot) = 0.0%
Period mean wind speed = 9.4 knots
Percent occurrance for 'C' stability class(es) 7.2%

AIR SCIENCES INC. SBRIND(1.2) 08/01/90

# FREQUENCY OF WINDS BY DIRECTION AND SPEED FOR STABILITY CLASS 'D'

# SOLEDAD HOUNTAIN PROJECT - HOJAYE, CALIFORNIA

Speed Class Intervals(kts) Hean											
Direction	1,<3	3,<6	6,<10	10,<16	16,<21	>21	All	Speed			
N	8.0	8.2	8.3	0.2	8.8	8.8	8.7	8.5			
NNE	9.0	9.0	0.3	8.1	9_8	0.0	8.4	7.7			
NE	0.8	0.0	8.2	0.0	0.0	8.0	0.2	7.9			
ENE	8_8	8.8	0.0	0.1	9.0	0.0	9.1	11.7			
E	8.9	8.8	0.0	0.2	0.0	9.9	0.2	12.7			
ESE	9.9	8.0	9_8	0.1	8_8	0.0	0.1	13.8			
SE	0.0	0.0	8.8	8.8	9_8	0.0	0.0	0.0			
SSE	0.0	0.3	0.0	0.1	8.8	8.8	0.4	6.5			
S	0_0	0.2	9.2	8.2	0.0	8.8	8.6	7.5			
SSR	8_8	0.3	2.0	3.6	1.9	8.4	8.2	13.5			
SA	8.8	8.1	2.1	6.1	1.5	0.5.	10.2	13.2			
HSH	8_8	0.2	1.5	1.3	0.3	0.0	. 3.2	18.9			
Ħ	8.8	9.9	1.5	1.3	8.2	0.0	3.1	10.8			
คหต	0.8	9.8	2.0	6.7	3.4	1.3	13.3	14.7			
NH	8.1	0.0	1.7	17.2	23.0	14.4	56.3	18.1			
nna	0.0	0.2	0.9	1.3	8.3	0.2	3.1	12.4			
All	9.1	1.4	12.7	38.4	30.5	16.8	100.0	15.9			

Calm (less than one knot) = 0.0%
Period mean wind speed = 15.9 knots
Percent occurrance for 'D' stability class(es) 71.6%

AIR SCIENCES INC. SBUIND(1.2) 08/01/90

# FREQUENCY OF WINDS BY DIRECTION AND SPEED FOR STABILITY CLASS 'E'

# SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA

Speed Class Intervals(kts) Hean											
Direction	1, <3	3,<6	6,<18	10,<16	16,<21	>21	all	Speed			
Х	0.0	4.3	4.3	9.9	0.0	0.0	8.7	6.2			
NNE	2.2	2-2	2.2	9_8	9.8	0.0	6.5	5.2			
NE	8.8	8.8	0.0	0.0	0.9	0.0	0.8	9.8			
. ENE	8.8	9.9	0.0	9.8	0.0	9.8	9.8	9.0			
E	0.0	0.0	0.0	0.0	0.0	8.8	9.0	0.0			
ESE	0.0	0.0	2.2	9.6	8.8	0.0	2.2	6.0			
SE	9.0	9.9	0.0	9.8	8.8	9.0	8.8	9.9			
SSE	0.0	8.7	9.9	8_8	8.8	0.0	8.7	3.9			
S	0.0	13.0	4.3	0.9	8.8	0.0	17.4	5.4			
SSR	9.8	6.5	2.2	8.0	8.0	0.0	8.7	5.5			
SH	0.0	4.3	10.9	0.0	0.0	0.0	15.2	6.3			
ash	0.0	0.0	13.0	8.8	8.8	8.8	13.0	6.4			
, H	0.0	2.2	4.3	8.8	0.0	0.0	6.5	6.2			
HNA	9.0	0.0	8.7	9_9	0.0	0.0	8.7	6.6			
ИН	9.9	0.0	4.3	0.8	9.9	8.8	4.3	6.6			
אאק	8.8	0.0	0.0	8.8	9.9	8.8	8_8	0.0			
all	2.2	41.3	56.5	8.8	0.0	9.8	100.0	5.8			

Calm (less than one knot) = 0.0%
Period mean mind speed = 5.8 knots
Percent occurrance for 'E' stability class(es) 2.6%

AIR SCIENCES INC. SBWIND(1.2) 08/01/90

# FREQUENCY OF WINDS BY DIRECTION AND SPEED FOR STABILITY CLASS 'F'

# SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA

		Spee	d Class	Interva	ls(kts)			Hean
Direction	1, <3	3,<6	6,<18	10,<16	16,<21	>21	All	Speed
Я	2.1	7.8	0.8	8.8	8.8	8.8	9.9	3.9
NNE	2.1	4.3	9.0	0.0	8.8	0.0	6.4	3.5
HE	2_1	2.1	9.9	9.0	0.0	0.0	4.3	3.2
ENE	2.8	8.8	0.8	0.0	0.0	0.0	2_8	2.4
E	5.8	8.8	0.0	0.0	9.0	8.8	5.8	2.5
ESE	2.1	0.0	0.0	0.0	8.8	9.8	2.1	2.7
SE	8.7	9.7	8.8	0.0	8.8	9.0	1.4	3.0
SSE	2.1	7.1	0.0	0.0	8.8	9.0	9.2	3.8
S	2.8	15.6	8.8	8.8	9.0	0.0	18.4	3.7
SSH	4.3	9.9	8.8	0.0	0.0	0.0	14.2	3.6
SW	6.7	5.7	9.8	9.9	0.0	8.8	6.4	4.1
RSR	8.8	2.8	0.0	8.8	0.0	0.0	2.8	4.8
Q	1.4	5.7	9.0	0.0	9.0	8.8	7.1	4.3
ana	9.9	2.1	9.8	0.0	0.0	0.0	2.1	4.1
NH	8.8	2_8	0.0	0.0		9.0	2.8	4.1
рии	2.1	2.8	0.0	0.0	0.0	9.0	5.8	3.8
All	30.5	69.5	8.9	8.8	8.8	9.9	100.9	3.7

Calm (less than one knot) = 0.0%
Period mean gind speed = 3.7 knots
Percent occurrance for 'F' stability class(es) 7.9%

AIR SCIENCES INC. SBUIND(1.2) 08/01/90

# APPENDIX D Wind Speed Frequency Distributions

# AVERAGE FREQUENCY DISTRIBUTION OF WIND SPEEDS SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA APRIL 1990

(%)

Hind :	Speed	Intervals	(mph)
--------	-------	-----------	-------

							,				
Day	< 10	>=10 < 13	< 16	>=16, < 19				>=28, < 31	>=31		Time Period
1	44.3	11.7		12.4	11.8	6.4		0.4	0.0	32.3	1
2	83.8	11.6	4.8	0.6	0.0	0.0	0.0	0.0	0.0	19.1	
3	58.9	23.8	9.3	5.2	2.1	0.6	0.1	0.0	8.8	28.0	
2 3 4 5	95.3	3.2		8.2	0.0	0.0	0.0	0.0	0.0	18.4	
3	42.1	21.2	17.6	11.1	6.1	1.7	0.2	0.0	9.9	28.6	2
6	61.6	19.3	9.7	6.2	2.8	8.5	0.0	0.0	0.0	26.6	
7	38.3	15.7	16.8	15.8	9.7	3.3	0.4	0.0	9.0	30.0	3
8 9	27.4	8.2	4_8	6.7	9.7	19.7	9.9	9.2	13.4	49.1	
	72.3	9.8	5.2	6.3	5.0	1.9	0.4	8.0	8.8	30.3	د 1
18	72.5	7.6	10.2	7.5	2.1	0.2	0.0	0.0	0.0	25.5	7
11	0.2	2.5	9.1	19.2	20.7	16.8	13.9	10.1	7.5	48.9	נ
12	34.8	7.2	7.9	15.3	17.9	10.8	4.1	1.6	9.3		
13	69.8	17.5	6.4	5.2	1.1	0.1	0.0	8.0	9.9	33.4 23.7	
14	62.3	13.8	10.9	8.4	3.9	9.8	0.0	0.0	0.0	25.7	
15	28.9	26.8	16.9	14.5	9.8	3.7	0.3	9.0	8.0	27.5	<u>ئ</u> م
16	12.4	15.0	25.7	26.9	14.1	4.8	1.1	0.1	0.0	29.8	. 2
17	29.4	14.3	10.3	15.3	17.4	10.1	2.9	0.4	0.0	32.0	2
18	13.5	17.7	21.1	20.4	16.0	8.8	2.1	0.4		32.7	2
19	47.7	18.6	17.6	11.4	4.0	0.7	8.1	0.9	8.8	27.7	- 4
28	14.5	17.6	19.9	21.8	16.6	7.8	1.6	8.2	0.0	34.6	· 3
21	31.4	30.4	22.6	11.2	3.7	8.6	<b>0.</b> 1	8.8	0.0	29.6	
22	5.5	11.1	14.5	14.7	15.3	16.4	12.9	7.1	2.4	38.2	2
23	18.9	17.8	15.9	15.2	11.8	7.7	3.7	2.0	7.9	62.7	2
24	9.2	4.8	3.2	3.2	5.5	7.6	9.0	11.6	45.9	53.6	3 2 2 2 2 3 3 3 3 2 3
25 26	23.7	8.7	9.6	13.0	11.6	10.5	8.7	7.4	6.7	44.5	2
26	7.6	6.6	7.2	11.3	13.7	15.9	15.4	11.1	11.3	47.9	3 1
27	<b>53.9</b>	10.9	10.8	9.8	7.3	4.3	1.8	0.8	0.3	39.3	1
28	xx	XX	**	**	XX	**	**	**	ZX	.¥±	I ·
29 30	**	XX	**	**	XX	XX	××	xx	**	**	**
20		***	**	**	**	**	**	**	22	**	**
All*	39.5	13.5	11.7	11.4	9.8	5.7	3.4	2.3	3.4	62.7	3

<sup>\*</sup> All data on this line are monthly averages of the daily values except for maximum gust and time period which are the maximum gust recorded during the month and the time period of that gust.

<sup>\*\*</sup> Invalid or missing data

# AVERAGE FREQUENCY DISTRIBUTION OF WIND SPEEDS SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA HAY 1990

(%)

# Wind Speed Intervals (mph)

Day	< 10	>=10 , < 13	>=13, < 16	•	>=19, < 22	>=22, < 25	>=25, < 28.	>=28, < 31	>=31		Time Period
1	**	**	. XX	**	**	**	**	**	* xx	**	**
2	**	: **	xx	**	**	**	xx	**	**	xx	xx
3	**	XX	**	xx	II	××	, xx	xx	**	末主	xx
4	**	II	**	z z	**	**	xx	**	xx	xx	**
5	xx	** *	**	ZZ	**	**	xx ·	**	II	xx	32
6	**	**	xx	xx	**	xx	**	**	xx	II	XX
7	**	xx	××	**	**	**	xx	xx	xx	xx	**
8	**	**	**	**	**	**	**	**	xx	**	**
9 .	**	**	**	**	xx	**	XX	XX	xx	xx	XX
10	XX.	xx	**	xx	××	**	xx	**	II	**	22
11	**	xx	XX	**	**	**	xx	XX	**	xx	xx
12	**	**	xx	**	**	**	**	xx	xx	**	xx
13	xx	××	XX	xx	**	××	xx	** .	xx	xx	11
14	**	**	**	**	**	**	XX	**	**	xx	TX
15	41.7	2.8	3.6	6.6	11.1	13.7	11.2	7.1	2.1	37.9	3
16	62.9	14.8	11.8	7.8	2.9	1.1	0.2	0.0	0.0	28.0	· 1
17	34.7	10.9	17.8	20.1	12.5	4.8	0.7	0.1	0.0	33.0	3
18	21.7	18.8	23.2	20.4	10.8	3.7	1.1	0.3	0.0	32.0	2
19	18.1	7.9	11.5	15.6	17.5	15.6	9.3	3.7	8.8	36.6	1
29	2.6	6.4	14.1	20.0	22.4	19.0	10.6	3.9	1.1	39.6	1
21	29.6	15.0	15.9	17.5	12.7	5.9	2.3	<b>0.</b> 8	0.3	33.9	1
22	57.3	16.9	14.5	8.7	2.4	9.2	0.0	0.0	0.0	27.3	3
23	31.6	7.7	7.8	10.1	11.5	11.2	8.7	6.9	4.5	48.2	3
24	8.4	1.4	3.8	10.9	20.0	25.1	20.5	12.7	5.1	38.6	1
· 25	12.1	13.1	16.6	21.1	19.4	12.8	4.0	8.8	0.1	33.0	1
26	37.9	13.2	13.7	14.1	12.1	6.8	1.8	0.2	8.8	33.0	2
27	17.4	18.8	18.0	18.2	15.8	10.3	2.2	8.2	0.8	29.8	2
28	15.5	16.4	12.0	13.0	15.5	13.0	8.3	4.4	1.9	39.8	2
29	8.8	3.1	8.4	16.3	22.9	24.0	15.9	6.5	2.0	37.0	3
38	8.1	7.8	13.8	20.5	19.3	16.5	9.3	4.0	8.9	36.2	3
31	28.3	7.0	7.4	11.7	15.6	15.0	11.8	7.4	3.8	39.6	2
All*	24.3	18.7	12.5	14.8	14.4	11.7	6.9	3.5	1.3	48.2	3

<sup>\*</sup> All data on this line are monthly averages of the daily values except for maximum gust and time period which are the maximum gust recorded during the month and the time period of that gust.

<sup>\*\*</sup> Invalid or missing data

# AVERAGE FREQUENCY DISTRIBUTION OF WIND SPEEDS SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA JUNE 1990

Wind Speed Intervals (mph)

		(apri)										
Day 	< 10	>=10 , < 13	>=13, < 16		>=19, < 22	>=22, < 25	>=25, < 28	>=28, < 31	>=31	Hax Gust (mph)	Time Period	
1 2	19.6 49.8	6. <del>0</del> 9.2	5.8	14.1	21.2	16.6	8.2	4.5	4.0	44.8	1	
3	47.4		15.9	15.7	7.2	1.9	0.3	0.0	0.0	27.7	1 .	
4	12.2	6.8	4.0	3.9	5.9	8.9	9.8	8.2	5.1	39.5		
5	0.2	9.2 1.0	8.5	8.2	10.3	16.3	16.4	11.7	7.1	41.3	3 2 3 1	
6	0.2 0.1	8.5	2.8 1.3	9.4	19.0	26.0	21.7		6.6	40.2	2	
7	29.9	2.9		4.6	9.2	14.1	15.5	16.0	38.8	55.7	3	
8	43.0	14.2	4.3	9.4	10.9	11.7	11.3	9.4		47.3	1	
9	27.8	18.2	11.7	12.8	11.0	5.2	1.9	0.3	0.0	33.0	3 3 3 2 3 3 3	
10	30.9	10.4	19.9	17.5		4.5	1.5	0.2	8.0	30.5	3	
11	17.9	12.6	11.3	14.7	15.1	10.2	4.3	0.9	0.0	32.1	3	
12	5.1	10.7	12.9	16.6	18.2	13.0	7.0	2.6	1.1	38.9	3	
13	27.3	5.6	8.4	15.0	19.1	20.2	13.6	8.2	4.7	39.1	2	
14	32.3	11.3	8.6	9.2	9.0	11.1	10.8	8.9	3.7	36.4	3	
15	18.5	12.9 7.3	13.0	20.5		5.0	0.6	0.1	8.0	30.2	3	
16	34.3	11.9	6.7	8.2	11.5	16.2	14.9	11.0	5.7	42.0	3	
17	44.5	13.2	12.7	15.3	12.1	8.4	3.6	1.4	8.3	35.2		
18	42.9	11.0	13.8	14.7	10.5	3.1	8.2	0.0	8.8	26.9	2	
19	42.9 45.9		9.4	10.3	11.0	8.5	4.4	1.9	0.5	38.7	3	
20	43.9 64.4	17.5 14.8	15.7	11.2	4.9	3.2	1.3	0.2	0.0	33.7	1	
21	65.3	19.6	12.3	6.8	1.6	8.1	0.8	0.0	0.0	23.7	. 3	
22	38.6	23.8	9.5	9.1	4.6	0.8	0.1	0.0	0.0	26.8	2	
23	44.5	13.7	12.3	9.6	9.6	5.4	0.7	0.0	0.0	28.7	3 2 3 2 3 3 2 2	
24	31.4	15.9	16.6	16.6	7.4	1.8	0.0	0.0	0.0	25.9	2	
25	14.3	9.6	21.9	19.3	8.5	2.5	0.4	0.0	0.0	29.4	3	
26	0.7	2.7	12.3	16.3	17.5	14.7	9.8	4.5	1.1	35.9	3	
27	19.1	7.4	6.2	12.1	17.3	18.9	16.3	13.0	12.7	44.1	2	
28	3.1	6.6	6.5	9.3	13.2	15.4	12.6	9.5	6.9	40.9	2	
29	37.2	18.0	14.0	22.2	24.6	18.2	8.3	2.4		35.5	1	
30	40.0	24.1	24.1	17.3	3.3	0.1	0.0	9.0	0.0	24.1	· 1	
20	70.0	44. i	19.6	11.8	3.8	0.7	0.0	0.0	9.8	26.6	2	
All*	29.6	11.0	11.4	12.7	11.4	9.4	6.5	4.3	3.6	55.7	. 3	

<sup>\*</sup> All data on this line are monthly averages of the daily values except for maximum gust and time period which are the maximum gust recorded during the month and the time period of that gust.

# METEOROLOGICAL DATA SUMMARY JANUARY - MARCH 1990 SOLEDAD MOUNTAIN PROJECT

Prepared for Noranda Mining Corporation Lakewood, CO

Prepared by
Air Sciences Inc.
Lakewood, CO

Project No. 58-07 May 1990

# Table of Contents

1.0 INTRODUCTION	1
1.1 Location	,
1.2 Program Description	3
1.3 Data Recovery	3
. •	
2.0 METEOROLOGICAL DATA SUMMARY	4
2.1 Winds	
2.2 Temperature	
APPENDIX A - AIRS TABLES	
APPENDIX B - FREQUENCY DISTRIBUTIONS BY DIRECTION AND SPEED	
APPENDIX C - WIND SPEED FREQUENCY DISTRIBUTIONS	

# List of Tables

1	DATA RECOVERY	_
2	FREQUENCY OF WINDS BY DIRECTION AND SPEED	ے ء
3	FREQUENCY OF WINDS BY DIRECTION AND STABILITY	6
4	MONTHLY TEMPERATURE MEANS AND STABILITY	6
•	MONTHLY TEMPERATURE MEANS AND EXTREMES	8

# List of Figures

1	GENERAL PROJECT LOCATION	2
2	WIND FREQUENCY DISTRIBUTION	5

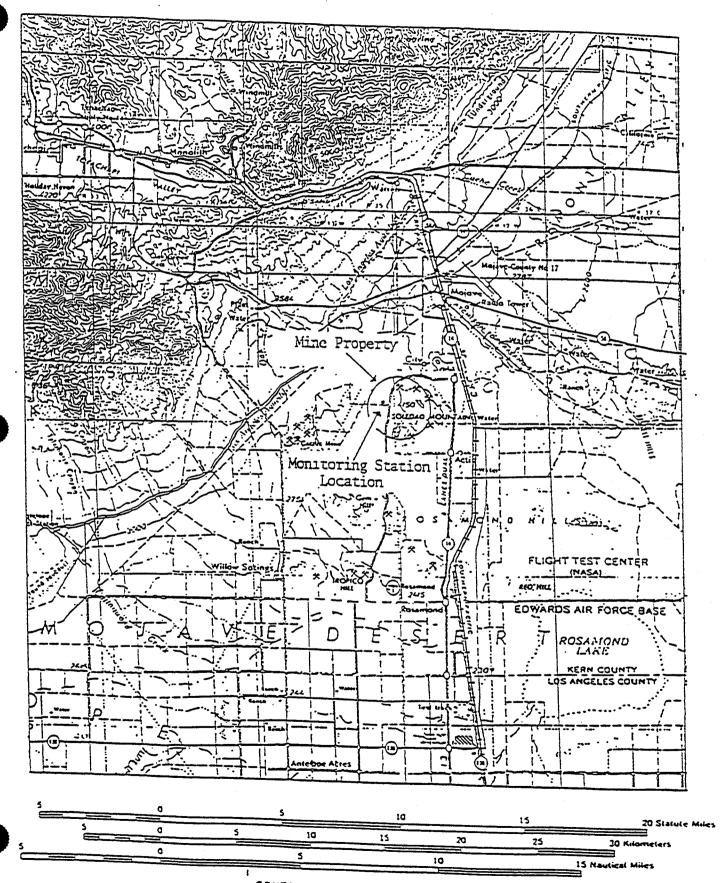
### 1.0 INTRODUCTION

This report summarizes three months of meteorological data collected near Soledad Mountain in the Mojave Desert of Kern County, California for Noranda Mining Corporation. The monitoring station is near a proposed open-pit mining project known as the Soledad Mountain Project. Data for this report were collected from October 1, 1989 through December 31, 1989. This report summarizes the first quarter of the monitoring program which began on September 29, 1989. Monitoring was performed in accordance with "Sampling Protocol, Golden Queen Mine Project, Mojave, California," (Air Sciences Inc., October, 1989). The purpose of the monitoring was to collect dispersion meteorological data to be used in dispersion modeling and to collect climatological data.

### 1.1 Location

The Soledad Mountain monitoring station is located on the plains west of Soledad Mountain in the Mojave Desert of southeastern Kern County, California. The site is approximately 12 miles NW of Rosamond Lake and 5 miles SSW of the town of Mojave. The mine pit, waste dumps and processing are expected to be located on the western side of Soledad Mountain, just east of the Mojave-Tropico Road. The monitoring station is located approximately one-quarter mile west of Mojave-Tropico Road on the desert plain in an area where the meteorological data should define the wind patterns that will carry pollutants toward residential areas. The station will be at an approximate elevation of 2,850° MSL at UTM coordinates 3,871 km north and 389 km east (the southwest quarter of Section 1, T 10 N, R 13 W). Vegetation is sparse in this part of the Mojave Desert Basin and consists of sagebrush and widely scattered Joshua trees. The monitoring location is shown on Figure 1.

# FIGURE 1 GENERAL PROJECT LOCATION



CONTOUR INTERVAL 200 FEET WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

TRANSVERSE MERCATOR PROJECTION

# 1.2 Program Description

The parameters of wind speed, wind direction, direction deviation (sigma theta) and temperature are measured and recorded at the monitoring station. The wind parameters are measured by sensors mounted on top a 10-meter meteorological tower. Temperature is measured by a sensor located in an aspirated shield at the 2-meter level on the tower.

The meteorological data are sampled every 10 seconds by a digital Data Acquisition System (DAS) and processed and stored in 15-minute average format and as 8-hour wind speed maximum and frequency distribution data. The DAS digitally stores sine and cosine of wind direction, wind speed and temperature on a time-averaged basis. The 15-minute and 8-hour data, recorded on a solid-state memory module, are regularly transferred by mail to Air Sciences Inc. (Air Sciences) for processing and archiving. EPA methods are used to process the 15-minute data into hourly averages of wind speed, wind direction, wind direction deviation (sigma theta), and temperature as suggested in "On-Site Meteorological Program Guidance for Regulatory Modeling Applications," (EPA-450/4-87-013, Sections 6.0-6.4). Processing of the 8-hour data is performed by the DAS prior to the recording of the data onto the solid-state memory module.

Calibrations of the monitoring equipment were performed in accordance with the sampling protocol. Equipment calibration, audit and data quality assurance procedures are based on EPA guideline documentation and are fully described in the monitoring plan. Copies of the calibrations performed subsequent to the installation are located in Appendix A.

# 1.3 Data Recovery

Data recovery rates for all parameters are presented in Table 1. Recovery was 100 percent for all meteorological parameters. Data recovery rates for this first quarter of data collection exceeded the minimum EPA recommended annual average rate of recovery for meteorological sampling of 90 percent.

TABLE 1
DATA RECOVERY

Parameter	Percent
Wind Speed	100
Wind Direction	100
Sigma Theta	100
Temperature	100

# 2.0 METEOROLOGICAL DATA SUMMARY

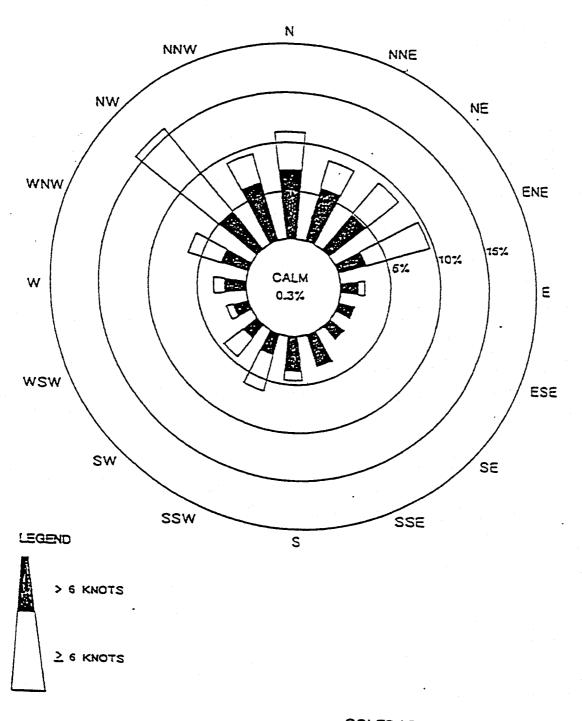
The meteorological parameters were sampled on site every 10 seconds and digitally processed into 15-minute averages. The 15-minute averages were transmitted to Air Sciences for quality assurance checks and to be used as input for the calculation of 1-hour averages. All summary data presented in this section was produced by the processing of hourly averaged data into tables of summary statistics and SAROAD formatted tables. The meteorological values of wind speed, wind direction and temperature, collected during the quarter, are presented as hourly averages in SAROAD format by month for each parameter in Appendix B.

### 2.1 Winds

The wind frequency distribution by direction and speed for all atmospheric stability classes shown as Figure 2 and Table 2, shows that the highest frequency of winds were from the north (NW through ENE). These northerly winds accounted for over 63 percent of the total winds. The highest wind speed was from the northwest at an average of 12.2 knots (14.0 mph). All other winds were much lower in speed as shown by the overall wind speed for all directions of 6.8 knots (7.8 mph). The frequency distributions by direction and speed for stability classes A through F are included in Appendix C.

Appendix D contains one table for each month of data collection and displays wind speed frequency distributions (histograms). Each table contains the average daily percentages of winds in each wind speed category for each day of the month with a maximum wind gust for the day and a record of the time period in which the maximum wind gust occurred. Time period 1 is defined as the hours of midnight to 8 a.m., period 2 is the hours of 8 a.m. to 4 p.m., and period 3 equals the hours of 4 p.m. to midnight. Frequency distributions were recorded for each 8-hour time period from 10-second wind speed data. These 8-hour histograms were processed by Air Sciences into daily average histograms. The maximum wind gust for the quarter occurred on October 25 during time period 3 and was 50.6 mph.

FIGURE 2
WIND FREQUENCY DISTRIBUTION



SOLEDAD MOUNTAIN PROJECT MOJAVE, CALIFORNIA OCTOBER-DECEMBER 1989

> AIR SCIENCES INC. LAKEWOOD, COLORADO

TABLE 2
FREQUENCY OF WINDS BY DIRECTION AND SPEED
SOLEDAD MOUNTAIN PROJECT - MOJAVE, CALIFORNIA
OCTOBER - DECEMBER 1989

		Speed Class Intervals(kts)										
Direction	1,<3	<u>3,&lt;6</u>	<u>6,&lt;10</u>	<u>10,&lt;16</u>	<u>16,&lt;21</u>	<u>&gt;21</u>	All	Mean Speed				
N	3.3	3.9	3.6	0.1	0.0	0.0	11.0	4.8				
NNE	2.4	3.4	2.7	0.1	0.0	0.0	8.7	4.9				
NE .	1.9	2.9	3.7	0.5	0.1	0.0	9.1	5.9				
ENE	1.0	1.9	5.1	1.6	0.0	0.0	9.6	7.2				
Ε	1.0	0.8	0.3	0.3	0.0	0.0	2.4	4.8				
ESE	0.9	0.6	0.1	0.0	0.0	0.0	1.5	3.0				
SE	1.1	0.7	0.0	0.0	0.0	0.0	1.8	3.0				
SSE	1.2	2.3	0.0	0.0	0.0	0.0	3.5	3.3				
S	1.2	2.5	8.0	0.0	0.0	0.0	4.6	4.3				
SSW	1.1	1.3	1.8	1.4	0.5	0.1	6.2	8.3				
sw	0.8	1.1	1.0	1.1	0.4	0.0	4.4	8.4				
wsw	0.8	8.0	0.7	0.1	0.0	0.0	2.3	4.7				
W	1.4	8.0	0.9	0.3	0.0	0.0	3.3	4.9				
WNW	1.8	1.0	1.0	1.6	0.6	0.2	6.3	8.4				
NW	3.4	1.5	1.1	4.1	3.9	1.7	15.7	12.2				
NNW	3.2	3.1	1.8	0.7	0.3	0.1 -	9.3	5.4				
All	26.4	28.6	24.6	12.0	5.9	2.2	99.7	6.8				

Calm (less than one knot) = 0.3% Period mean wind speed = 6.8 knots

TABLE 3
FREQUENCY OF WINDS BY DIRECTION AND STABILITY
SOLEDAD MOUNTAIN PROJECT - MOJAVE, CALIFORNIA
OCTOBER - DECEMBER 1989

Direction	A	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	All
N	0.4	0.2	0.2	2.4	3.6	4.2	11.0
NNE	0.7	0.2	8.0	2.7	1.1	3.2	8.7
NE	1.9	1.2	1.2	2.5	0.4	1.9	9.2
ENE	1.6	2.3	2.5	2.0	0.1	1.2	9.7
Ε	1.0	0.0	0.1	0.4	0.1	0.7	2.4
ESE	0.7	0.0	0.0	0.0	0.0	8.0	1.6
SE	8.0	0.1	0.0	0.0	0.1	0.7	1.8
SSE	1.2	0.3	0.1	0.3	0.2	1.4	3.5
S	1.1	0.3	0.5	0.6	0.6	1.4	4.6
SSW	0.9	0.3	0.5	2.9	0.3	1.3	6.2
SW	0.4	0.0	0.0	2.5	0.0	1.4	4.4
wsw	0.1	0.0	0.0	0.5	0.4	1.3	2.3
W	0.2	0.0	0.0	0.9	0.3	1.8	3.3
WNW	0.1	0.0	0.0	3.2	0.5	2.3	6.2
NW	0.5	0.0	0.1	10.8	0.4	3.8	15.7
NNW	0.3	0.0	0.0	2.9	1.4	4.7	9.3
All	12.1	5.1	6.2	34.8	9.4	32.1	99.7

Table 3 shows the frequency distribution by atmospheric stability categories A through F. Categories A through D occur in the daytime and categories D through F occur at night. Stability class was calculated by the method of Irwin (1980) which uses wind speed, standard deviation of wind direction and local sunrise and sunset times for determining daytime and nighttime periods. A nighttime correction is applied to the stability class determination. The assumed terrain mixing height was 15 centimeters. Table 3 shows that both daytime and nighttime winds were predominately out of the north (NW through ENE).

# 2.2 Temperature

Temperature data summaries are presented in Table 4. Average temperature for the data collection period was 8.9 °C (48.0 °F). The coldest month of the period was January and the warmest was March. The minimum temperature recorded was -7.6 °C (18.3 °F) and the maximum was 28.4 °C (83.1 °F).

TABLE 4
MONTHLY TEMPERATURE MEANS AND EXTREMES (°C)
SOLEDAD MOUNTAIN PROJECT - MOJAVE, CALIFORNIA
JANUARY - MARCH 1990

<u>Month</u>	Average Daily <u>Maximum</u>	Average Daily <u>Minimum</u>	Daily <u>Average</u>	Monthly Maximum	Monthly <u>Minimum</u>
NAL	13.1	0.2	6.3	20.8	-7.6
FEB	13.6	0.7	7.1	23.1	-5.0
MAR	19.5	7.4	12.9	28.4 .	-0.2
QTR	15.4	2.8	8.9	28.4	-7.6

## APPENDIX A AIRS TABLES

AVC 171 171 171 171 171 171 171 171 171 17	
23 111 113 114 115 116 117 118 118 119 119 119 119 119 119	
22 38 81 121 121 136 136 14 15 168 111 168 114 168 173 173 173 173 173 173 173 173	
21	
28 98 98 128 128 138 148 158 168 178 188 188 188 188 188 188 18	
19	
18 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	
114 114 118 119 119 119 119 119 119 119 119 119	
161 122 123 188 1 123 123 134 135 144 15 16 16 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	
15 16 16 16 16 16 16 16 16 16 16 16 16 16	
100 100 100 100 100 100 100 100 100 100	
12 13 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	
11 12 93 99 96 99 26 30 27 17 27 17 27 17 27 17 28 58 29 17 20 21 21 17 22 19 23 33 24 58 89 81 81 41 89 81 80 80 81 80 80 81 80 80 81 80	
2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
1055 105 105 105 105 105 105 105 105 105	
8	
105 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
27 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
24 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	
20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
22 111 111 112 123 132 132 133 133 134 137 137 137 137 137 137 137 137 137 137	
23 11 11 11 11 11 11 11 11 11 11 11 11 11	
23	
12 12 12 12 12 13 14 11 11 12 13 14 11 11 12 13 14 11 12 13 14 14 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	
DAY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

\* Indicates calibration of sensors
\*\* Indicates invalid data

AIR SCIENCES INC. 04/12/98

# HOURLY AVERAGED HIND DIRECTION JANUARY 1990 SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA UNITS ARE DEGREES AZIHUTH

		_																															
23	:	796	316	867	358	226	333	306	=	321	279	175	202	214	191	307	210	344	302	356	355	6	346	326	<b>=</b> ;	245	315	343	335	300	301	383	
22	:	208	319	787	344	<u> </u>	328	389	5	_	=	178	212	199	174	298	288	330	246	358	-	15	303	230	34	263	303	348	357	23	309	314	
21	; 1	217	315	348	191	320	291	315	19	303	358	167	215	201	147	288	344	333	222	320	16	320	250	354	24	238	318	348	345	314	302	Ξ	
28																																	
			322																														
			315																														
			315																														
			7 314																														
			9 317																														
			309																														
			318																														
12	1	207	312	120	78	51	158	323	325	37	42	28	222	214	217	181	232	319	11	39	26	6.9	54	153	65	69	316	53	157	303	239	315	
=	1	211	312	136	68	35	152	7	323	25	36	3	212	212	220	36	231	316	185	36	26	59	40	110	70	99	308	26	186	299	245	320	
10	1	287	313	146	78	37	123	348	315	34	46	21	157	210	217	311	236	305	190	170	48	48	161	163	63	40	303	21	191	296	211	319	
6	1	206	368	93	96	11	111	327	299	33	84	18	148	208	215	298	190	330	143	212	38	41	151	169	51	39	199	54	148	275	276	318	
																																317	
																																313	
																																310 3	
2				~				_						_																		364 3	
. 🕶																							•		• •		•		•	•	•	314 36	
																																3,	
																																307	
																																307	
Œ	•		206	•	120	353	25.	של ה	326	201	36	325	17.	216	283	177	383	3 8	31.	37.	<u>ק</u> ב	35.	; œ	319	289	34	2,75	3 6	3 2	ָרָ מָ מַרָּ	29.5	310	
> 9	•		- ~	. ~	) <del>-</del>	ר ער	י כ	۰ د	- œ		, 5	2 =	: 2	<u> </u>	<u> </u>	<u> </u>	2 4	2 =	- =	2 9	2 %	3 5	; ;	; <del>.</del> .	2 5	بر	3 %	3 5	, a	9 0	ה מ	3 =	
_	-	•																															

Indicates calibration of sensorsIndicates invalid data

# HOURLY AVERNCED TEHPERATURE JANUARY 1990 SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA UNITS ARE TEHTHS OF A DEGREE CELSIUS

	AVG	19	36	=	16	9.9	Ç	70 .	<del>6</del> 71	14	98	35	35	198	£ ;	င် င	χ.	<b>7 6</b>	≃ :	<u>5</u> :	77	<del>2</del> 2	£ :	4.	62	- 5	5 6	2 5	ב א	105	2 6	3 2	) ;	٤	3	
	23																																			
	22																																			
	21																																			
	28																																			
	13																							•												
	18																																			
	11																																			
	<b>16</b>																																			
	15																																			
	14																																			
	13																							_												
	13																																			
	=			_	_																															
	10				_																															
	6																																			
	, <b>c</b>																																			
•	1																																			
							_	_			_																						35			
	S																																			
																																	36			
	٣																																			
																													•				36			•
																																	31			:
																																	45			
				7		•																				24									AVERAGE	

Indicates calibration of sensors
 Indicates invalid data

AIR SCIENCES INC.

	AVC		Ξ	28	22	36	32	28	0	. 4	<del>-</del> -	<u>~</u> ;	9	28	54	æ :	2	33	=	26	72	99	73	28	52	71	18	22	28	77	22		r *
	23		88	7	67	106	23	74	7	5 5	76	= ;	7	29	104	63	21	30	69	43	104	71	38	7	13	<u> </u>	6	71	15	-	6	: =	- -
	22		96	Ξ	4	96	48	7.8	2 5	~ ·	, ç	<b>5</b> (	=	22	75	95	99	=	84	23	191	=	4)	6	13	13	-	36	53	7	5	: :	<del>.</del>
	21	1	140	15	53	97	35	Ç	7 7	2 2	æ 6	<b>x</b> 0	=	<u>~</u>	<del>2</del>	83	92	53	92	48	94	74	21	ထာ	22	8	œ	52	33	=	œ	:	<u>a.</u>
	20	1	151	5	73	9	25	9 9	2 2	₹ ?	ž :	7	_	6	46	83	69	Ξ	84	5	90	19	34	13	113	7	9	71	53	12	6	: 5	76
	19	1	139	10	35	93	7	2	7 0	2 2	<u>e</u> :	$\equiv$	=	9	69	18	69	46	12	54	83	32	33	7	14	ထ	6	15	42	=	10	; ;	£
	18	! !	135	74	40	102	48	, ,	2 6	S 5	£ ;	20	15	13	78	66	65	22	98	29	116	38	34	25	19	7	15	=	40	21	52	! .	န
	11	:	125	14	22	186	. 8	3 5	7 0	<u>و</u> ز	79	24	13	82	40	104	98	23	93	92	110	38	71	14	24	11	18	53	33	45	49	1 1	2
	16	1	136	16	3	128	22	3 6	80	104	6	<b>78</b>	73	52	7	118	88	61	92	84	118	48	52	24	21	25	16	38	20	34	21	; ;	28
	15	1 1	132	23	25	139	3 %	9 6	ລຸ	118	52	74	53	23	88	137	33	22	75	83	110	62	25	31	28	28	71	34	36	30	38	1 :	28
	14	1	131	35	79	138	2 6	ָ ק	င္တ		7	<u></u>	20	13	93	137	105	32	35	9	94	72	27	40	53	3	19	32	22	73	30	† †	26
	13	1	155	39	7	2 2	5 6	הר	<b>?</b> ;	117	74	7	<del>1</del> 8	22	93	113	86	31	110	83	97	88	24	43.	28	35	53	34	73	56	22	-	26
	12	!	178	48	;	- 3	יי ל ל	2 6	?	13	7	7	23	22	66	104	86	33	115	88	52	85	23	38	4	38	7	75	38	35	28	:	22
:	=	1	128	46	. E	7 00	2 5	17	7	129	71	38	33	22	92	93	83	<del>.</del>	169	74	11	36	19	78	7	35	35	35	3	32	30	į	54
	10	1	144	E	3 =	- 6	3 5	2 (	77	128	29	7	34	27	9	97	6,	38	98	69	25	76	<del>.</del> <del></del>	7	38	43	48	: =	3 %	24	31	:	20
•	6	1 1	178	77	. 6	2 5	<b>7</b> ?	7	=	131	70	=	15	7		42	86	43	. <del>.</del>	5	49	79	7	: =	32	2	: =	3 4	26	5 52	3 2	:	43
	æ	!	141	5	5 0	ר ל	្ច ;	<u>c</u> :	=	109	15	7	<u></u>	5	=	3	æ	3 5	95	3 %	2	5	2 2	; <u>~</u>	2 8	11	: 2	1 4	2 5	] =	:=	:	32
5	1		Po	. 6	3 5	- ;	b7	= :	=	103	70	7	1	. 7	: 4	2 %	3 5	<u>ر</u> ج	2.0	7.	3 2	. 7	; =	= =	2 2	, <u>c</u>	~	7	: 2	<u> </u>	, <del>1</del>	:	38
	9	\$ 1 1	y	3 6	5 4	9 6	ς;	7	=	3	13	12	: =	===	2 4	<u> </u>	19 ?		2 2	2 -	= =	185	2 =	2	==	; <del>c</del>	2 0	٦, د	2 2	15	23	:	31
						_	_		_		_																				43		
	4	1	93		<u> </u>	2 :	£ :	<del></del>	2	84	19	: ==	<u> </u>	200	3 5	ין ער ה	3 5	2 %	3 8	ر د د	3 5	167	3 5	<u> </u>	76	2 ~	2 9	<u> </u>	2 =	= 2	21	. !	35
																															2 <del>-</del>		
																															<u>.</u> 8		
	_			2	2 :	=	36	96	7	8	45	? =	- <del>-</del>	<u> </u>	= ;		= :	2,5	07	⊋ ;	3 5	7,101	<u> </u>	<b>=</b> 9	5 7	5 t	2 5	3 5	2 ;	7 5	7 æ	, ;	38
	0	•	: 3	- ;	771	5	48	186	Ξ	78	9	2 5	- 6	<u> </u>	, כ	200	2 2	3 5	77	3 5	200	9 4	5 5	2 ;	7 ;	77	2 9	≃ ?	a ;	2 2	<del>,</del> «	) ; ;	<b>1</b>
	Y	:	! •	- (	7	Ć	❖	S	ف	, (	- œ		, ,	<u> </u>	= ;	7 :	2;	<u> </u>	۲ :	9 ;	- :	2 5	2 2	a ?	٦ (	77	57	<b>5</b> 7	ç, 2	<b>?</b> ?	78	}	AVERAGE

\* Indicates calibration of sensors
\*\* Indicates invalid data

# HOURLY AVERRGED HIND DIRECTION FEBRUARY 1990 SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORHIA UNITS ARE DEGREES AZIHUTH

-

2	3	210	2 5	33.4	517	= 5	72.	923	2.5	70£	3 5	2 6	2 5	71	<u> </u>	5 5	≃ ;	98	<u>2</u>	21	٠ <u>د</u>	9	<del></del>	2	6	· œ	, es	>		176
2		305		717	077	2 5	89 5	<u> </u>	57.5	2 6	7 20	. ה ה	ה ה	הינ		3:	7	7 7	2 2	9	9	2 34	1 32	34		3	3 2	3 6	3,5	166 176
21	; ;	300		- 6 - 6 - 6	2 5	9 9	75.	<u> </u>	97	2 C	; 0	, 4	- אנ	2 6	7 -	ñ ñ	2 9	37 	8	5 31	<del></del>	2 33	<b>~</b>	9	1 26		28	7.7	200	164 166
28	: :	11	2 3		2 4	_	בי בי	7 6	7 c	ה ה	֝֝֜֝֝֜֝֝֜֝֝֝֜֝֝֝֝֝ ֓֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞	2 4	- c	4 č	2 -	יי הר	7 (	97 S	1 21	2		34	35	3	=		767	79.	3 =	164
19	: ;	10	, ,	2 6	5 5	ת ה	ຕິວ	היי	າ ດັ 2 ໘	2 0	` <u>-</u>	, ~	; <del>;</del>	, ~	י י	ט טיני	7 6	97 S	77	35	- 23	35	345	328	27	63	262	315	228	213 10
<u></u>	:	17		י כ י	2 4			7 7	ה ה סעם	, ,		. E	3 6	, 6	3 =	26.	3 6	₹ ?	71	327	<b>588</b>	294	29	25	27	312	222	303	289	207 21
13	:	17	; <u>;</u>	. c	, r v	, ,	, ב ה		2 K	, -	· ~	, e	=	9	, ,	776	2 5	7	7	316	297	299	343	294	335	270	184	382	173	204 2
9	;	36	; c		; ; ;	, כ י	2.5	7 5	֓֞֞֝֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	28	286	7	25.4	38.7	317			707	₽:7	315	283	261	781	134	342	161	194	245	219	212 20
5	:	3.0	14		= ==	7 7	2 5	200	38	187	175	179	386	308	313	3 2	360	CO7	99.7	5	787	199	98	133	29	7	192	203	197	216 2
	¦	3	7	Ξ	= :	12.		5 8	36	156	184	174	313	310	318	358	200	2 6	- :	Ξ;	5	ဋ္ဌ	2	84	29	21	78	88	38	13
•	i	~	=	- 5	-	, 4	2 =	, E	200	2	16.	326	316	308	319	313	3 5	7 7 7	5 5	<u>≈</u> ;	= 3	£ 3	<u>ک</u> ز	26	63	39	42	82	35	88
13	1	310	9	149	39.8	168	25.7	318	205	160	139	112	318	310	317	215	10	2 6	202	<u>-</u> :	<u> </u>	2 2 2 3	۵ <u>.</u>	= :	64	9	34	31 2	17 1	157 18
12	!	310	72	152	793	169	2 6	388	189	33	113	53	313	312	15	<u>=</u>		3 6	֓֞֜֞֜֜֞֜֜֜֓֓֓֓֜֜֜֜֜֜֓֓֓֜֜֜֜֜֓֓֓֓֜֜֜֜֓֓֓֜֜֜֜֡֓֜֜֜֜֜֜	276	7 :	- 2	2 5	2 :	<u> </u>		7	<del>-</del>	6 11	8 15
=	:	307	42	148	292	168	186	313	82	89	19	46	110	=	17	78	15	1 6	7 20	2 6	7 :		2 6	<u>ي</u>			5	7	9	. 5
19	:	309	40	144	302	45	26	Ξ	83	89	34	52	98	98	17 3	1 96	7 2		2 6		-		r		_		4	4	9	4
9	!!	310	346	64	33		89	88	36	65 1	97	21	3	33	9	16 21	5	, ,	- 2	7 6	 		• ·	o •	<b>a</b> (	~ 	č.	~	9	42
œ	:	107	30	39	01 2	05 1	45 · 1	96	6	38	3 2	 æ	9	9	9 31	2 30	7 21	2 2	; 6	֓֞֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֝֓֓֓֜֜֜֜֜֜	2 6	2 4	5 ù	กั <b>จ</b> ั	¥ 8	₹ :	11	32	161	£.
1	!	90	22	22	96 2	29 1	99 1	96	11 49	<del>-</del>	S	ب پ	7 21	1 24	9 32	5	5 21	2	, ×	3 6	7	- 🔾	5 4	** *	2 ;	7	38	5	146	69
9	:	96	2 2	19	7 9	9	8	7 36	2	-	9 34	5 33	3 15	78	Ħ	33	17	7	2	325	נפנ	2 5	קי	770	2 2	50	<u>.</u>	~	=	33
5	i !	5 9	<b>8</b>	5 14	3 22	9	1 23	38	. 2	<u> </u>	79	36	166	314	312	208	189	213	213	326	5 6	35.0	3 4	3 5	217	2 3	20 E	321	134	13
~		4 23	<u>۔</u>		1 27	4	21	3	25	=	192	341	157	248	318	287	205	164	193	2	25.7	330	3 2	3 5	7,7		<u>.</u>	35g	Ξ,	<u>-</u>
<b>е</b>		73	32	32	7		29.	316	37	338	9	344	199	292	312	353	185	154	211	315	39.	32	3.5	זינ	5 5	= 5	300	£7	360	7
	1 :	9	35	348	216	303	354	314	2	338	355	ا ب	229	310	309	354	238	191	242	328	4	3.5	12	: :	7 0	<u> </u>	<b>-</b> 6	9 (	<u></u>	55
	: ;	57	Č	32	19	351	344	312	8	357	313	3	214	300	315	353	245	197	228	321	981	7	. K	2 =	2 2	ວຸບ	ט ל	ደ :	<u> </u>	35
	: 3	97	35	Ë	126	314	~	31	318	354	315	337	193	315	304	25	239	203	200	317	222	287	58	2	3 2	3 5	2 -	=	<b>2</b> (	2
65	: 3	87	318	343	217	319	38	312	321	340	597	346 313	513	315 315	388	2	972	96	=	119	15	54	53		;:	; ;	::	7 (	7 F.A	=
DAY	•			•						4	<del>-</del> .	<b>-</b> ;	- ;	<b>-</b> : ;	<u> </u>	<u></u> ;	2	=	18	19	79	71	22	23	7	; ×	3 %	3 5	700	97

Indicates calibration of sensors
 Indicates invalid data

AVG 422 123 123 123 123 123 123 123 1	139
23 -13 -13 -13 -13 -13 -13 -13 -13 -13 -1	49
22 34 125 125 125 125 136 136 136 136	108
22 22 22 22 22 22 22 22 22 22 23 33 34 22 31 32 31 32 33 34 35 35 36 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37	
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
198 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
118 1163 1163 1163 1163 1163	
171 178 178 178 178 178 178 178 178 178	
11114   15   16   17   17   17   17   17   17   17	
152 122 142 142 143 144 145 146 147 148 148 149 149 149 149 149 149 149 149 149 149	
141 1123 113 113 113 114 114 114 114 114 114 11	
112 112 113 113 113 113 113 113 113 113	
12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
103 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
5   12   13   14   15   15   15   15   15   15   15	
6   12	
2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
6 1 2 4 5 4 5 4 5 4 5 5 6 5 6 5 6 5 6 5 6 5 6	
2 1 2 2 3 2 3 2 3 2 5 3 5 3 5 3 5 3 5 3 5 5 5 5	
4   25,547,55,545,65,65,65,65,65,65,65,65,65,65,65,65,65	
E   4 E 5 E 4 E 6 E 5 E 5 E 5 E 5 E 5 E 5 E 5 E 5 E 5	
2   21245 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
1123 113 113 113 113 113 113 113 113 113	
133 5 - 123 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
DAY 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	27 28 Average

\* Indicates calibration of sensors
\*\* Indicates invalid data

HOURLY AVERACEO HIND SPEED
HARCH 1990
SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA
UNITS ARE TENTHS OF A HETERS PER SECOND

AVG	!	3	3	80	2	=	33	<b>5</b> 6	æ	22	5.	64	<u>=</u> ;	<del>=</del> 3	2 5	₽ ?	ಕ್ಷ :	<b>-</b> 6		<u> </u>	₹ ;	79	5	€ :	<del>د</del> و	<b>8</b> 5	<u>ک</u> ز	5 6	£ 0	<u> </u>	<b>=</b> :	88	! (	59	
23																																			
22																																			
21																																			
70																																			
19																																			
18																																			
11																																			
15 16																																			
																																2 95			
																																12			
																																47			
																																. 39			
																																39			
																																59			
6	1	12	4	94	8	147	26	35	42	: ≊	25	69	98	92	88	36	7	23	23	24	7	33	53	59	71	110	84	83	82	39	45	16	! ! !	55	
<b>&amp;</b>	1	•	55	83	77	135	5	5	36	2 8	14	74	103	52	88	22	44	10	24	12	<b>∞</b>	25	92	78	20	83	95	84	96	63	38	8	:	54	
2	1	1	: 5	3 8	9	3 6	? =	3 4	3,	12	22	42	104	20	98	=	43	œ	16	ç	18	36	8	73	38	97	80	44	93	99	38	16	:	46	
9	1	14	3:	2 2	3 %	2 4	2	; ;	1 = =	=	19	99	80	52	88	23	47	9	27	æ	18	32	88	89	21	3	89	38	96	23	53	75	!	44	
ß	1	,	7	78	2 5	3 6	, Y	3 ~	, ;	7 2	45	49	110	83	85	36	20	ထ	38	12	23	25	99	75	18	99	62	Ξ	6	5	2	11	1	28	
4	1		5.	. E	5	2 2	2.4	5 0	° %	3 4	36	5.0	95	8	28	9	33	2	80	9	3	40	63	99	46	94	63	42	5	7	: 6	38	:	25	
~		-	2 %	3 %	3 %	3 6	3 2	3 4	2 5	= =	. g	3 2	63	28	96	12	13	<u>~</u>	89	ဖ	36	24	69	98	33	96	75	3	3	3.5	? =	: ::		49	
7		: a	2	<u> </u>	5 5	2 0	, z	11	- 2	25	: =	. 89	5	82	86	12	38	<u> </u>	95	=	7	36	46	95	43	12	11	: 23	. 5	3 2	3 =	91		49	
																																		53	
																																		57	
VAO		_	_	_																						*						3 =		AVERAGE	

Indicates calibration of sensors
 Indicates invalid data

AIR SCIENCES INC. 04/12/90

	<b>~</b> :	_	- a	. a	9 0	<b>~</b> -	_ ,	<b>~</b> (	<u> </u>	~	s .	<b>Ω</b> .	o •	<b>.</b>	<b>.</b>	n	<b>-</b>	~ ~	3 6	<b>n</b> c			<b>-</b>			<b>-</b>	-		<b>.</b>				_
	23	7	7 0	ה ה	מר מר	2 5	<del>-</del> '	_ ;	96	= :	S	7 ?	77	<u> </u>	<u>-</u>	200		2 5	7	- 6	ה ה ה	5	, 00	2,5	300	9 6	200	52		= 3	377	7 2	5
	22	07.0	21.6	מיני	000	AC7	715	= ;	201	161	=======================================	577	3.58	25	97f	776	727	141	<u>.</u> כ	700	ر 10 ر 100 ر	241	- 6	300 212	306	ם מפר	204	107	385	314	787 787	21.5	2
	21		717	715	200	2 :	= :	8	257	284	35	777	175	25	<u>3</u> 15	777	25	- T	<u> </u>	140	200	207	202	303 310	5 5	317	- 20	07	279	328	19.7		2
	20		717	200	- C	507	88 ?	33	316	191	23	218	9 ;	918	313	225	975	٧ د	217	2 5	795	200	_ { }	30 <i>1</i>		207	= {	767	249	316	233	202	-
	19		, c2	- 5	25	677	388	307	175	238	867	213	384	321	314	308	25.5	Ç07	200	ر د د	36 33	2 2	215	200	000	797	202	S :	246	315	219	971	=
	18	! (	697	- 12.5	ເລເ	216	30.	305	222	250	280	248	381	316	312	2 2	976	9 6	£ 6	5 6	85 E	= ;	23	5 6	2 2	9 9		/0	.21		28	2. 2. t	· =
	11																																•
	16																																
	15																																
	14	!	220	320	300	245	318	8	211	227	176	315	295	315	311	31	38	9	336	67	208	137	322	318	b67	208	318	305	211	286	312	382	313
IKUT	13	! !	211	312	31	264	310	130	199	214	198	312	286	312	320	312	52	8	193	9	207	2	327	301	761	221	306	319	217	389	303	81	364
S A2	12	:	217	207	318	315	316	168	165	215	181	208	287	307	71	310	72	29	151	22	35	113	327	237	36	170	305	251	290	311	297	96	351
DECRE	=																																
ARE D	16																																
UNITS																															309		
∍																															317		
																															82.		
									-	•	•		•	•		• •			•		• •		` '	•••				•	•		316		• •
	ς.																														313		
	4																														307		
	•																																
																															312		
	7	1	277	29	269	36.	200	167	מ כ	25.4	נים ב	22	285	365	266	316	2,5	358	357	315	22	1	<b>.</b> <del>.</del>	307	308	336	293	1	200	110	3 5	233	319
			221	300	39.5	200		340	160	220	000	345	286	291	32	386	345	33	357	313	5	329	306	306	307	~	299	30.	2000	117	312	156	321
	60	•   	188	366	3 =	21.0	ב ה ה	210	2 5	9.5.t	104	25.2	767 267	717	3 5	38	328	328	158	316		388	308	340	797	=======================================	388	202	200	767	317	155	317
	_																																_

\* Indicates calibration of sensors \*\* Indicates invalid data

# HOURLY AVERACED TEHPERATURE HARCH 1990 SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA UNITS ARE TENTHS OF A DEGREE CELSIUS

AVG	148	143	122	117	2 0	2 5	16	187	135	106	192	48	34	48	ع	118	122	146	179	165	192	200	193	192	781	= :	164	<u> </u>	87   28	<u></u>	53	99	! (	53
23																																		
22																																		
21																																	•	-
20																																		
19																																		
82																																		
11																																		
16																																		
15																																	-	
4																																	•	•
13																																	•	-
12																																	-	
<del></del>																																		
10																																		
6																																		
<b>&amp;</b>																																		
2																																		
																																123 14		
2																																		
ͺ	-																																	
~																																		
																																119		
																																129 11		
																																		100 9
																																	_	
DAY	1		7	~	₹.	S	ع د	-	- œ	9	, 6	=	1:	<u> </u>	1.5	<u> </u>	7 5	2 =	2 =	2 5	) e	2.5	;;	7,7	24	7,	26	2 2	2 6	0,7	3 %	3 =		AVERAGE

\* Indicates calibration of sensors \*\* Indicates invalid data

AIR SCIENCES INC. 84/12/98

#### **APPENDIX B**

## FREQUENCY DISTRIBUTIONS BY DIRECTION AND SPEED

## FREQUENCY OF GINOS BY DIRECTION AND SPEED FOR STABILITY CLASS 'A' SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA JANUARY - HARCH 1990

#### Speed Class Intervals(kts)

								Hean
Direction	1,<3	3,<6	6,<18	10,<16	16,<21	>21	All	Speed
N	8.8	1.0	0.0	0.0	0.9	0.8	1.0	4.7
NNE	1.5	6.8	8.0	8.8	0.0	0.0	7.5	4.8
NE	1.5	12.4	0.0	9.9	0.0	0.8	13.9	4.8
ENE	2.5	10.0	0.0	0.0	0.0	8.8	12.4	4.1
E	1.5	5.8	9.0	0.8	9.8	8.8	6.5	3.8
ESE	2.5	5.0	0.0	8.8	8.8	0.0	7.5	3.8
SE	3.5	6.5	8.0	9.0	0.0	8.8	10.0	3.5
SSE	5.5	11.9	8.8	0.0	8.8	8.8	17.4	3.6
S	2.8	18.4	0.0	9.9	8.8	0.0	12.4	4.1
SSA	1.8	7.8	8.8	0.0	8.8	8.8	8.0	4.6
SR	0.0	1.5	0.8	0.9	9.8	9.0	1.5	4.8
hsh	0.5	0.0	8.8	8.8	8_8	9.8	0.5	1.6
Ħ	8.8	0.5	0.0	0.0	8.9	9.9	. 0.5	5.2
HHH	8.8	0.5	8.8	8.8	8.8	0.0	0.5	5.4
NA	8.0	8.5	8.8	8.8	9.0	8.8	0.5	3.3
RNA	8.8	6.8	8.8	8.8	8.8	0.0	8.8	8.8
All	21.9	78.1	0.0	0.0	8.8	0.0	100.0	3.9

Calm (less than one knot) = 0.0%
Period mean wind speed = 3.9 knots
Percent occurrance for 'A' stability class(es) 9.3%

AIR SCIENCES INC. SBWIND(1.2) 04/12/90

## FREQUENCY OF WINDS BY DIRECTION AND SPEED FOR STABILITY CLASS 'B' SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA JANUARY - HARCH 1990

#### Speed Class Intervals(kts)

								Hean
Direction	1, <3	3,<6	6,<10	18,<16	16,<21	>21	All	Speed
И	8.8	1.1	3.3	8.8	0.6	8.8	4.3	6.7
NNE	0.0	0.0	2.2	9.8	0.0	0.8	2.2	6.1
NE	1.1	6.5	5.4	0.0	0.8	9.8	13.8	5.5
ENE	0.0	6.5	15.2	9.0	8.8	9.0	21.7	6.2
E	8.8	0.0	4.3	9.8	6.8	0.0	4.3	6.7
ESE	8.8	0.0	1.1	9.0	8_8	8.8	1.1	6.8
SE	1.1	4.3	2.2	0.8	8.8	8.8	7.6	4.9
SSE	9.9	2.2	0.0	8.8	0.8	8.8	2.2	4.9
S	1.1	5.4	6.5	8.9	0.0	8.0	13.0	5.7
SSH	0.0	2.2	8.7	0.0	0.0	8.9	10.9	6.7
SH	8.9	0.0	4.3	8.8	0.0	8.8	4.3	6.9
ush	8.8	1.1	6.5	8.8	8.8	8.8	7.6	6.5
Я	0.0	8.8	0.0	8.8	8.8	8.8	. 9.8	8.8
QNQ	9.8	0.0	0.0	0.0	9.9	0.0	8.0	8.0
nh	8.8	9.8	6.5	0.0	6.8	8.8	6.5	6.9
האא	9.8	9.9	1.1	9.8	8.8	8.8	1.1	7_6
all	3.3	29.3	67.4	0.0	8.8	0.0	100.0	6.1

Calm (less than one knot) = 0.0%
Period mean mind speed = 6.1 knots
Percent occurrance for '8' stability class(es) 4.3%

AIR SCIENCES INC. SBRIND(1.2) 04/12/90

# FREQUENCY OF WINDS BY DIRECTION AND SPEED FOR STABILITY CLASS 'C' SOLEDAD HOUNTAIN PROJECT - HOJAYE, CALIFORNIA JANUARY - HARCH 1990

#### Speed Class Intervals(kts)

		•						Kean
Direction	1,<3	3,<6	6,<18	10,<16	16,<21	>21	All	Speed
н	0.8	8.8	8.7	8.8	8.8	8.8	8.7	9.7
n HNE	8.8	3.4	1.4	1.4	9.0	0.0	. 6.1	6.6
	8.8	3.4	15.0	2.8	0.0	8.8	28.4	7.3
NE		8.8	19.8	2.7	0.0	9.8	21.8	8.4
ENE	0.0		2.7	6.8	8.8	0.0	2.7	8.6
E	0.0	8.8	0.9	8.8	8.8	8.8	9.7	4.1
ESE	0.0	8.7			9.8	9.9	8.7	5.2
SE	0.6	8.7	8.9	8.8		9.0	2.8	5.6
322	9.6	1.4	0.7	0.0	9.8		6.8	5.3
S	9.8	6.1	8.7	8.8	9.0	0.8		8.9
SSR	8.8	0.7	2.0			8.9	4.8	
SH	8.8	0.0	5.4			0.0	7.5	8.9
HSH	0.0	8.8	1.4	0.7	9.8	9.9	2.8	9.4
Ħ	0.0	8.8	0.8	4.1	0.0	9.0	4.1	18.8
ÜNQ ÜNQ	9.9	9.8	3.4	4.1	0.0	0.0	. 7.5	9.9
NA	8.8	9.8	4_8		8.8	0.0	8.2	9.7
nn Phr	8.8	0.0	3.4			8.8	4.1	9.3
all	0.0	16.3	60.	5 23.	1 8.8	0.0	199.8	8.2

Calm (less than one knot) = 0.0%

Period mean mind speed = 8.2 knots

Percent occurrance for 'C' stability class(es) 6.8%

AIR SCIENCES INC. SBQIND(1.2) 04/12/90

## FREQUENCY OF WINDS BY DIRECTION AND SPEED FOR STABILITY CLASS 'D' SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA JANUARY - HARCH 1990

#### Speed Class Intervals(kts)

								Hean
Direction	1,<3	3,<6	6,<18	10,<16	16,<21	>21	All	Speed
N N	0.1	8.8	1.8	0.5	0.0	8.8	3.2	7.5
NHE	0.0	0.5	1_8	0.4	0.1	0.0	2.8	7.8
NE	0.0	0.3	1.4	8.4	8.8	8.8	2.1	8.1
ENE	8.8	8.1	8.1	8.8	8.8	8.8	0.2	7.5
E	0.0	8.2	8.1	0_1	9.8	0.0	8.4	8.9
ESE	9.9	0.0	0.9	8.8	0.0	9.9	9.0	0.0
SE	8.8	8.1	0.8	0.0	0.0	0.8	9.1	3.9
SSE	0.0	0.2	8.1	9.0	0.0	0.0	0.3	5.4
S	8.8	8.9	0.6	9.1	8.8	8.8	1.6	6.8
SSR	0.9	8.8	1.8	2.6	1.9	8.3	7.4	12.4
SW	0.8	8.4	2.7	3.8	8.6	8.0	7.4	11.2
ush	0.9	8.2	1.5	1.8	0.2	0.0	2.9	19.2
Q	0.6	8.3	1.6	0.9	0.2	8.8	3.0	9.7
กหต	9.8	0.2	2.6	6.1	2.9	0.5	12.3	13.4
NH	8.1	0.1	2.7	16.4	22.8	8_8	58.9	17.4
HNH	8.1	8.9	1.9	2.2	8.8	8.4	6.2	11.3
All	0.3	6.8	19.9	34.4	29.4	10.0	169.8	14.3

Calm (less than one knot) = 0.0%
Period mean wind speed = 14.3 knots
Percent occurrance for 'D' stability class(es) 49.2%

AIR SCIENCES INC. SBWIND(1.2) 04/12/90

#### FREQUENCY OF WINDS BY DIRECTION AND SPEED FOR STABILITY CLASS 'E' SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA JANUARY - HARCH 1990

#### Speed Class Intervals(kts)

		-						Hean
Direction	1,<3	3,<6	6,<10	10,<16	16,<21	>21	all	Speed
N	6.1	9.9	10.7	8.8	8.8	0.0	26.7	5.1
NNE	8.0	6.9	6.1	0.0	8.8	8.8	13.7	5.8
HE	0.0	8.6	8.8	0.0	0.0	8.0	1.5	5.7
ENE	8.8	8.9	8.8	8.8	8.0	0.0	0.0	8.8
E	0.0	8.8	0.8	8.8	0.8	9.8	8.8	4.1
ESE	0.0	8.8	9.9	8.8	8.8	0.8	8.8	8.8
SE	0.0	1.5	0.0	8.8	8.8	8.8	1.5	4.1
SSE	0.8	4.6	0.0	6.8	9.9	6_8	5.3	3.6
S	1.5	3.8	8.8	8.8	8.8	8.8	6.1	3.6
SSH	0.9	3.8	4.6	8.8	0.0	8_8	8.4	5.9
SR	0.0	3.1	1.5		9.8	0.0	4.6	6.9
ush	9.8	2.3	1.5		8.8	8.8	4.6	5.4
я <b>2</b>	0.0	2.3	2.3			0.0	4.6	5.4
ลหต	8.6	1.5	3.8			8.8	6.1	5.8
HU	3.1	8.8	8.8			8.8	4.6	3.8
nna	2.3		3.8		-	8.8	11.5	5.8
all	16.9	47.3	36.6	6.	8 0.8	8.8	188.9	5.1

Calm (less than one knot) = 0.0%
Period mean wind speed = 5.1 knots
Percent occurrance for 'E' stability class(es) 6.1%

AIR SCIENCES INC. SBUIND(1.2) 04/12/90

#### APPENDIX C

## WIND SPEED FREQUENCY DISTRIBUTIONS

#### AVERAGE FREQUENCY DISTRIBUTION OF WIND SPEEDS SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA JANUARY 1990 (%)

#### Wind Speed Intervals (mph)

Day	< 10	>=10 , < 13	>=13, < 16	>=16, < 19	>=19, < 22	>=22, < 25	>=25, < 28	< 31	>=31		Time Period
1	64.2	6.0	4.4	6.7	9.7	6.6	2.1	0.2	8.0	31.1	2
2	35.3	5.6	7.2	9.5	12.2	12.3	8.3	5.4	4.1	40.2	3
3	97.3	2.2	8.4	0.1	8.8	9.8	0.0	0.0	0.8	16.9	1
4	99.5	0.4	9.0	0.0	9.0	0.9	8.8	0.0	0.0	13.7	2
5	99.6	0.4	8.9	0.0	9.0	0.9	0.0	0.0	8.8	11.6	1 -
6	89.4	1.4	4.3	4.7	0.3	9.8	0.0	0.0	8.8	28.9	3
7	26.7	12.4	8.2	8.5	10.6	13.4	11.1	7.1	2.8	38.8	3
8	16.3	16.5	15.0	13.3	11.8	18.8	7.9	5.1	3.3	39.1	3
9	99.9	8.1	8_8	8.8	8.8	8.8	9.0	8.8	8.8	10.5	2 2 2 2 3
18	100.0	0.0	0.9	8.8	8.8	0.8	9.0	8.0	8.0	10.1	2
11	97.9	2.1	9.8	9.8	9.9	0.0	8.8	8.8	0.0	13.2	2
12	53.7	13.1	16.1	11.7	4.6	0.7	8.8	0.0	0.0	25.7	2
13	40.7	23.1	14.9	12.1	6.6	2.2	0.4	. 0.9	0.0	27.8	3
14	78.6	15.1	18_8	3.8	8.5	0.0	8.8	8.8	8_8	21.4	2
15	59.8	27.8	11.3	1.1	9. <del>9</del>	9.8	0.0	0.0	8.8	22.8	3
16	59.6	12.4	12.1	11.1	4.1	0.6	0.1	0.0	8.8	27.7	3
17	48.3	8.8	12.1	13.9	11.5	4.5	8.8	0.1	8.8	30.3	
18	99.5	0.5	8.8	8.8	9.6	8.8	8.8	8.0	0.0	11.7	2
19	100.0	0.0	9.0	0.8	8.8	6.8	9.8	8_8	0.0	9.8	2
28	92.5	7.5	8.1	8.8	8.8	0.0	9.0	0.0	8.8	13.5	2
21	82.6	13.5	3.4	8.4	8.8	0.0		8.8	0.0	18.2	2
22	100.0	0.0	9.0	9.8	0.0	9.9	0.0	0.0	0.0	9.4	3
23	79.4	5.4	6.8	5.1	3.0	1.8	8.1	9.0	0.0	26.6	3
24	62.9	30.4	5.4	1.2	0.1	0.0	9.9	0.0	9.8	28.5	3
25	99.6	8.4	8.8	0.9	8.8	9.8	8.8	9.0	9.8	11.7	2
26	42.0	3.8	3.6	6.3	7.7	9.0	7.9	6.5	13.3	53.1	3
27=	71.3	16.1	9.1	3.3	0.3	0.0	9.8	8.8	8.9	23.2	1
28=	95.3.	3.6	1.1	0.0	9.0	9.0	8.8	8.8	0.9		3
29*	42.9	15.7	7.9	7.8	6.5	7.6	5.8	4.4	2.2	38.0	2
38=	38.9	11.4	13.6	15.1	12.4	6.1	1.9		0.2	37.3	
31=	. 4.1	5.5	12.8	22.9	24.4	17.2	7.3	3.6	2.3	49.1	1
All*	<b>*</b> 70.0	8.4	5.8	5.1	4.1	3.0	1.7	1.1	0.9	53.1	3

<sup>\*</sup> The time periods for these days are incorrect by about 2.5 hours.

<sup>\*\*</sup> All data on this line are monthly averages of the daily values except for maximum gust and time period which are the maximum gust recorded during the month and the time period of that gust.

## AVERAGE FREQUENCY DISTRIBUTION OF WIND SPEEDS SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA FEBRUARY 1990

(%)

#### Wind Speed Intervals (mph)

Day	< 10	>=10 , < 13	>=13, < 16	>=16, < 19	>=19, < 22	>=22, < 25	>=25, < 28	>=28, < 31	>=31	Max Gust (mph)	Time Period
7=	6.1	4.2	7.1	9.5	8.3	9.4	10.6	12.4	32.4	52.5	2
2*	64.5	9.2	5.9	6.3	5.7	4.0	2.3	1.2	8.8	39.1	1
3*	86.9	7.8	4.5	1.3	8.2	0.0	0.0	0.0	0.0	22.8	3
4*	23.8	5.6	7.4	11.7	16.4	15.1	9.2	5.2	5.6	49.5	3 2
5*	91.1	7.8	1.1	9.0	8.0	0.0	9.0	8.8	0.0	16.8	3
6×	50.9	9.8	14.8	14.8	7.6	2.0	0.1	0.0	0.0	26.6	3
7=	9.5	9.2	10.7	13.3	15.4	15.3	11.8	7.9	6.8	44.8	1.
8	65.9	6.6	9.1	8.5	6.6	3.3	9.8	0.1	8.8	30.5	
9	98.4	1.6	0.0	9.9	8_8	0.0	0.0	8.8	9.0	14.6	3 1 2 2
18	99.2	8.8	0.0	0.0	0.0	9.0	8.8	8.8	8.8	12.5	2
11	100.0	9.8	9.9	0.0	0.0	8.8	9.9	0.0	8.8	10.3	2
12	51_8	7.4	7.3	10.7	10.6	8.1	3.0	8.0	0.2	35.0	3
13	17.8	9.1	9.5	12.9	15.2	13.5	9.6	6.6	6.6	44_3	
14	4.6	10.9	14.9	19.8	21.8	16.9	7.8	2.5	8.8	37.7	1
15	76.7	14.2	6.6	2.3	0.2	8.8	9.0	0.0	0.0	21.8	
16	23.2	12.4	11.5	16.3	17.3	11.8	5.3	2-4	8.5	35.9	. 2
17	32.7	23.5	16.2	14.3	9.4	3.3	0.5	0.0	8.8	28.4	2
18	28.2	14.5	18_8	10.2	11.2	10.3	6.8	5.1	3.6	39.8	3
19	29.6	11.2	14.3	15.8	11_6	7.3	5.1	3.4	2.4	42.1	
28	92.6	4.5	2.8	8_8	0_1	8.8	8.8	9.8	0.0	28.5	3
21	95.6	4.1	0.3	0.8	8.8	8.8	0.0	8.8	0.0	15.8	3 2
22	96.8	3.8	8.2	0.8	0.0	0.0	0.8	0.0	9.9	15.1	2
23	93.1	6.7	0.2	8.8	0.8	0.0	0.8	8.8	8.8	14.8	
24	97.6	2.3	8.8	9.0	8.8	8.8	0.0	0.0	8.8	13.7	2
25	98.2	1.8	0.0	0.0	0.0	8.8	9.0	8.8	0.0	13.0	3
26	98.3	8.5	1.1	0.1	9.0	8.8	8.8	0.0	0.0	16.6	3 3
27	96.7	2.8	8.5	0.0	0.0	8.8	0.0	9.9	8.8	16.2	3
28	89.2	9.3	1.4	0.1	8.8	8.8	8.8	8.8	9.9	17.1	
Allex	64.6	7.5	5.6	6.8	5.6	4.3	2.6	1.7	2.1	52.5	2

<sup>\*</sup> The time periods for these days are incorrect by about 2.5 hours.

<sup>\*\*</sup> All data on this line are monthly averages of the daily values except for maximum gust and time period which are the maximum gust recorded during the month and the time period of that gust.

## AVERAGE FREQUENCY DISTRIBUTION OF WIND SPEEDS SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA HARCH 1990

(%)

#### Wind Speed Intervals (mph)

					·					Hax	
Day	< 10	>=10 , < 13	>=13, < 16	>=16, < 19	>=19, < 22	>=22, < 25	>=25, < 28	>=28, < 31	>=31	Gust (mph) P	
1.	78.5	17.1	7.9	3.3	1.1	8.8	0.0	0.0	0.8	23.9	2
2	29.8	15.1	14.6	17.3	13.8	6.6	2.4	9.4	8.8	30.9	2
3	9.8	6.5	12.2	19.2	21.2	16.8	9.7	3.4	1.2	39.3	- 3
4	16.6	13.9	17.8	21.7	18.2	8.9	2.2	8.6	8.8	32.3	2
5	7.8	6.5	7.3	7.1	7.2	8.7	10.5	13.1	31.8	56.3	2
6	68.3	17.3	10.8	2.8	0.6	8.2	8.8	0.0	0.9	24.1	1
7	82.1	8.2	6.8	2.6	8.2	0.9	9.9	8.8	8.8	20.9	3
8	68.8	17.7	7.5	5.2	1.5	0.1	0.0	0.0	0.0	24.3	3 3 3
9	93.8	5.7	0.5	8.8	8.8	9.0	9.8	9.8	8.8	16.2	3
18	43.0	9.8	13.5	16.1	10.8	5.2	1.2	8.4	0.0	32.5	3
11	23.3	22.8	17.7	16.1	12.8	6.2	2.1	8.5	0.0	32.8	2
12	6.9	. 4.8	4.7	10.3	16.3	28.1	16.7	12.1	9.0	48.7	2
13	18.2	8.5	13.0	21.4	22.3	15.4	6.6		8.3	36.2	
14	1.7	4.3	11.6	22.3	23.6	15.8	8.2	5.9	6.7	50.4	3
15	86.8	9.5	3.9	2.8	1.7	1.3	9.5	0.1	8.1	34.3	1
16	80.3	16.3	2.9	9.4	8.1	0.0	8.8	8_8	0.0	21.9	1
17	61.7	2.9	6.2	13.4	11.3	3.8	0.6	0.0	8.8	28.2	
18	74.0	4.6	1.9	5.3	7.7	4.5	1.6	8.3	8.8	36.4	1
19	63.2	9.3	9.4	12.6	4.9	8.5	9.9	9.9	8.8	28.4	3
20	67.8	7.6	18.3	10.3	3.5	9.5	9.9	9.9	8.8	24.1	3
21	39.5	12.6	9.7	10.8	9.4	9.2	5.9	2.2	9.6	35.2	3
22	23.8	8.2	11.4	17.3	17.8	13.1	7.0	2.5	0.6	35.5	3
23	29.3	7.9	12.6	17.8	17.7	13.6	7_3	3.0	8.7	35.2	3
24	48.5	8.1	8.1	12.3	11.7	7.5	3.1	8.7	8.1	33.9	
25	8.2	5.3	10.5	17.2	20.3	19.2	12.5	5.6			2
26	17.8	16.1	21.7	22.3	14.9	6.2	1.6	0.2	8.8		
27	28.5	16.2	14.9	14.9	13.8	7.5	2.6	1.2	8.3		3
28	2.6	6.2	11.3	21.1	25.4	19.1	9.5	3.8	1.1		د ،
29	24_8	18.4	19.8	17.8	13.2	6.0	1.4	8.1	8.8		2
38	60.8	22.0	12.7	3.9	8.4		0.1	9.8			
31	8.2	8.8	15.6	24.1	22.5	14.2	5.8	1.5	8.1	33.4	د :
All*	40.0	18.8	18.6	12.5	11.1	7.4	3.9	1.9	1.7	56.3	2

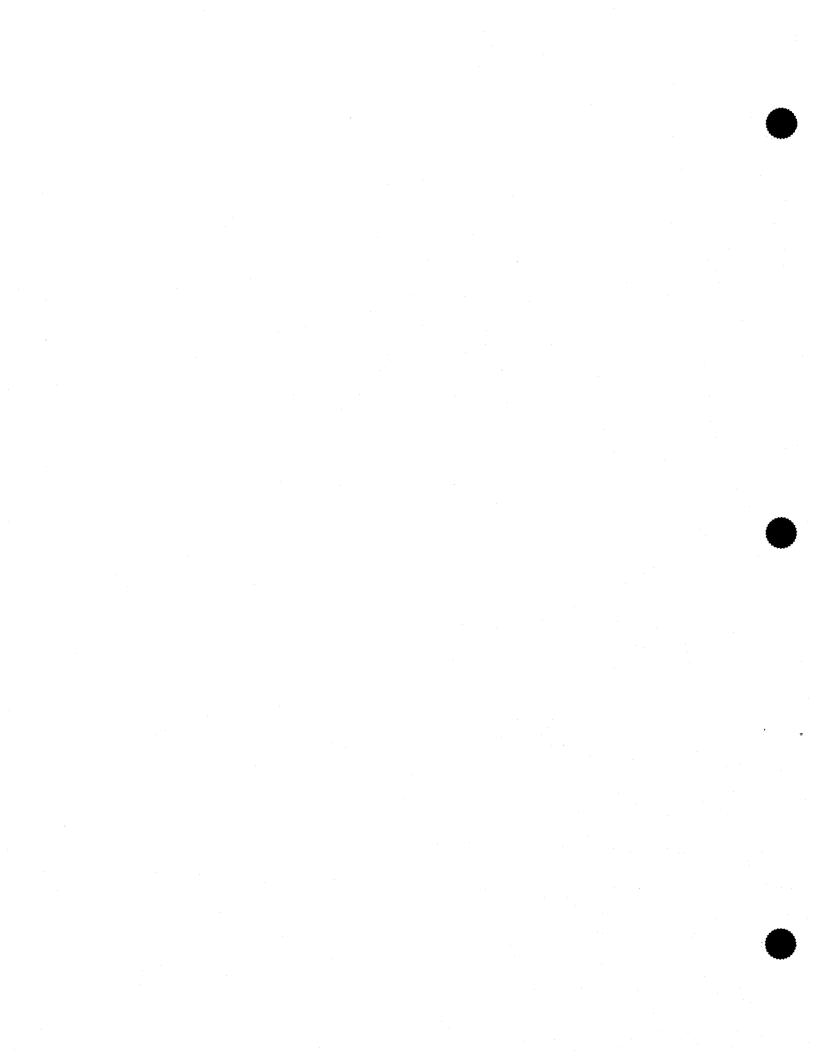
<sup>\*</sup> All data on this line are monthly averages of the daily values except for maximum gust and time period which are the maximum gust recorded during the month and the time period of that gust.

#### METEOROLOGICAL DATA SUMMARY OCTOBER - DECEMBER 1989 SOLEDAD MOUNTAIN PROJECT

for
Noranda Mining Corporation
Lakewood, CO

by
Air Sciences Inc.
Lakewood, CO

Project No. 58-07 January 1990



#### Table of Contents

1.0 INTRODUCTION	 	. 1
1.1 Location	 	. 1
1.2 Program Description	 	. 3
1.3 Data Recovery	 	. 3
2.0 METEOROLOGICAL DATA SUMMARY	 <b></b> .	. 4
2.1 Winds ·	 <b></b> .	. 4
2.2 Temperature	 	8
APPENDIX A		
APPENDIX B		
APPENDIX C		
APPENDIX D		

#### List of Tables

1,	DATA RECOVERY	~
2	FREQUENCY OF WINDS BY DIRECTION AND SPEED	3
3	FREQUENCY OF WINDS BY DIRECTION AND SPEED	6
1	FREQUENCY OF WINDS BY DIRECTION AND STABILITY	6
4	MONTHLY TEMPERATURE MEANS AND EXTREMES	8

#### List of Figures

1	GENERAL PROJECT LOCATION	2
2	WIND FREQUENCY DISTRIBUTION	Ē

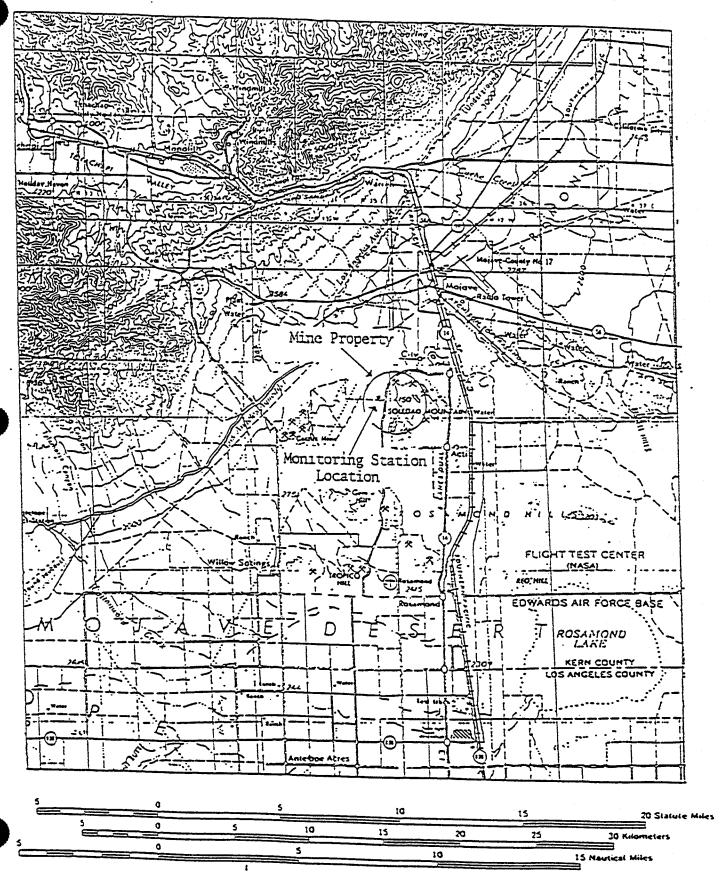
#### 1.0 INTRODUCTION

This report summarizes three months of meteorological data collected near Soledad Mountain in the Mojave Desert of Kern County, California for Noranda Mining Corporation. The monitoring station is near a proposed open-pit mining project known as the Soledad Mountain Project. Data for this report were collected from October 1, 1989 through December 31, 1989. This report summarizes the first quarter of the monitoring program which began on September 29, 1989. Monitoring was performed in accordance with "Sampling Protocol, Golden Queen Mine Project, Mojave, California," (Air Sciences Inc., October, 1989). The purpose of the monitoring was to collect dispersion meteorological data to be used in dispersion modeling and to collect dimatological data.

#### 1.1 Location

The Soledad Mountain monitoring station is located on the plains west of Soledad Mountain in the Mojave Desert of southeastern Kern County, California. The site is approximately 12 miles NW of Rosamond Lake and 5 miles SSW of the town of Mojave. The mine pit, waste dumps and processing are expected to be located on the western side of Soledad Mountain, just east of the Mojave-Tropico Road. The monitoring station is located approximately one-quarter mile west of Mojave-Tropico Road on the desert plain in an area where the meteorological data should define the wind patterns that will carry pollutants toward residential areas. The station will be at an approximate elevation of 2,850' MSL at UTM coordinates 3,871 km north and 389 km east (the southwest quarter of Section 1, T 10 N, R 13 W). Vegetation is sparse in this part of the Mojave Desert Basin and consists of sagebrush and widely scattered Joshua trees. The monitoring location is shown on Figure 1.

## FIGURE 1 GENERAL PROJECT LOCATION



CONTOUR INTERVAL 200 FEET WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

#### 1.2 Program Description

The parameters of wind speed, wind direction, direction deviation (sigma theta) and temperature are measured and recorded at the monitoring station. The wind parameters are measured by sensors mounted on top a 10-meter meteorological tower. Temperature is measured by a sensor located in an aspirated shield at the 2-meter level on the tower.

The meteorological data are sampled every 10 seconds by a digital Data Acquisition System (DAS) and processed and stored in 15-minute average format and as 8-hour wind speed maximum and frequency distribution data. The DAS digitally stores sine and cosine of wind direction, wind speed and temperature on a time-averaged basis. The 15-minute and 8-hour data, recorded on a solid-state memory module, are regularly transferred by mail to Air Sciences Inc. (Air Sciences) for processing and archiving. EPA methods are used to process the 15-minute data into hourly averages of wind speed, wind direction, wind direction deviation (sigma theta), and temperature as suggested in "On-Site Meteorological Program Guidance for Regulatory Modeling Applications," (EPA-450/4-87-013, Sections 6.0-6.4). Processing of the 8-hour data is performed by the DAS prior to the recording of the data onto the solid-state memory module.

Calibrations of the monitoring equipment were performed in accordance with the sampling protocol. Equipment calibration, audit and data quality assurance procedures are based on EPA guideline documentation and are fully described in the monitoring plan. Copies of the calibrations performed subsequent to the installation are located in Appendix A.

#### 1.3 Data Recovery

Data recovery rates for all parameters are presented in Table 1. Recovery was 100 percent for all meteorological parameters. Data recovery rates for this first quarter of data collection exceeded the minimum EPA recommended annual average rate of recovery for meteorological sampling of 90 percent.

TABLE 1
DATA RECOVERY

Parameter	Percent
Wind Speed	100
Wind Direction	100
Sigma Theta	100
Temperature	100

#### 2.0 METEOROLOGICAL DATA SUMMARY

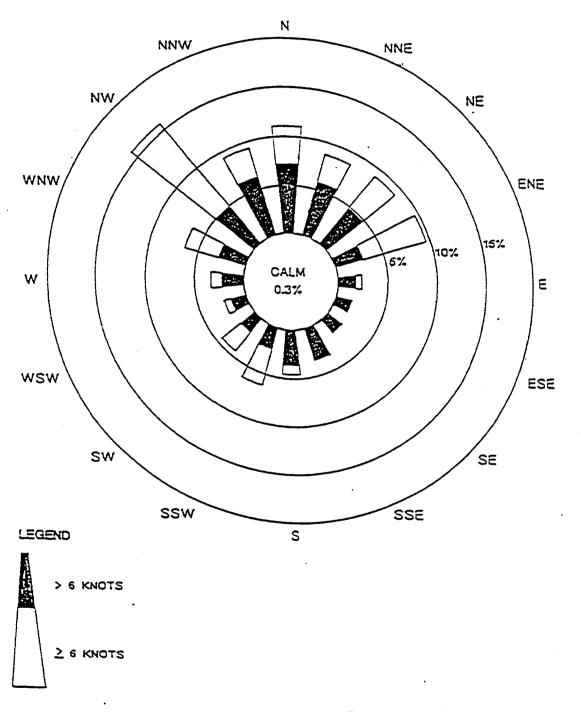
The meteorological parameters were sampled on site every 10 seconds and digitally processed into 15-minute averages. The 15-minute averages were transmitted to Air Sciences for quality assurance checks and to be used as input for the calculation of 1-hour averages. All summary data presented in this section was produced by the processing of hourly averaged data into tables of summary statistics and SAROAD formatted tables. The meteorological values of wind speed, wind direction and temperature, collected during the quarter, are presented as hourly averages in SAROAD format by month for each parameter in Appendix 8.

#### 2.1 Winds

The wind frequency distribution by direction and speed for all atmospheric stability classes shown as Figure 2 and Table 2, shows that the highest frequency of winds were from the north (NW through ENE). These northerly winds accounted for over 63 percent of the total winds. The highest wind speed was from the northwest at an average of 12.2 knots (14.0 mph). All other winds were much lower in speed as shown by the overall wind speed for all directions of 6.8 knots (7.8 mph). The frequency distributions by direction and speed for stability classes A through F are included in Appendix C.

Appendix D contains one table for each month of data collection and displays wind speed frequency distributions (histograms). Each table contains the average daily percentages of winds in each wind speed category for each day of the month with a maximum wind gust for the day and a record of the time period in which the maximum wind gust occurred. Time period 1 is defined as the hours of midnight to 8 a.m., period 2 is the hours of 8 a.m. to 4 p.m., and period 3 equals the hours of 4 p.m. to midnight. Frequency distributions were recorded for each 8-hour time period from 10-second wind speed data. These 8-hour histograms were processed by Air Sciences into daily average histograms. The maximum wind gust for the quarter occurred on October 25 during time period 3 and was 50.6 mph.

FIGURE 2
WIND FREQUENCY DISTRIBUTION



SOLEDAD MOUNTAIN PROJECT MOJAVE, CALIFORNIA OCTOBER-DECEMBER 1989

> AIR SCIENCES INC. LAKEWOOD, COLORADO

TABLE 2
FREQUENCY OF WINDS BY DIRECTION AND SPEED
SOLEDAD MOUNTAIN PROJECT - MOJAVE, CALIFORNIA
OCTOBER - DECEMBER 1989

	Speed Class Intervals (kts)								
								Mean	
Direction	<u>1,&lt;3</u>	<u>3,&lt;6</u>	<u>6,&lt;10</u>	10,<16	<u>16,&lt;21</u>	<u>&gt;21</u>	All	<u>Speed</u>	
N	3.3	3.9	3.6	0.1	0.0	0.0	11.0	4.8	
NNE	2.4	3.4	2.7	0.1	0.0	0.0	8.7	4.9	
NE	1.9	2.9	3.7	0.5	0.1	0.0	9.1	5.9	
ENE	1.0	1.9	5.1	1.6	0.0	0.0	9.6	7.2	
Ε	1.0	8.0	0.3	0.3	0.0	0.0	2.4	4.8	
ESE	0.9	0.6	0.1	0.0	0.0	0.0	1.6	3.0	
SE	1.1	0.7	0.0	0.0	0.0	0.0	1.8	3.0	
SSE	1.2	2.3	0.0	0.0	0.0	0.0	3.5	3.3	
S	1.2	2.5	8.0	0.0	0.0	0.0	4.6	4.3	
SSW	. 1.1	1.3	1.8	1.4	0.5	0.1	6.2	8.3	
SW	8.0	1.1	1.0	1.1	0.4	0.0	4.4	8.4	
wsw	8.0	0.8	0.7	0.1	0.0	0.0	2.3	4.7	
W	1.4	8.0	0.9	0.3	0.0	0.0	3.3	4.9	
WNW	1.8	1.0	1.0	1.6	0.6	0.2	6.3	8.4	
NW	3.4	1.5	1.1	4.1	3.9	1.7	15.7	12.2	
NNW	3.2	3.1	1.8	0.7	0.3	0.1	9.3	5.4	
All	26.4	28.6	24.6	12.0	5.9	2.2	99.7	6.8	

Calm (less than one knot) = 0.3% Period mean wind speed = 6.8 knots

TABLE 3
FREQUENCY OF WINDS BY DIRECTION AND STABILITY
SOLEDAD MOUNTAIN PROJECT - MOJAVE, CALIFORNIA
OCTOBER - DECEMBER 1989

Direction	<u>.</u>	<u>B</u>	<u>C</u>	<u>D</u> .	<u>E</u>	<u>F</u>	All
N	0.4	0.2	0.2	2.4	3.6	4.2	11.0
NNE	0.7	0.2	8.0	2.7	1.1	3.2	8.7
NE	1.9	1.2	1.2	2.5	0.4	1.9	9.2
ENE	1.6	2.3	2.5	2.0	0.1	1.2	9.7
ξ	1.0	0.0	0.1	0.4	0.1	0.7	2.4
ESE	0.7	0.0	0.0	0.0	0.0	8.0	1.6
SE	8.0	0.1	0.0	0.0	0.1	0.7	1.8
SSE	1.2	0.3	0.1	0.3	0.2	1.4	3.5
S	1.1	0.3	0.5	0.6	0.6	1.4	4.6
SSW	0.9	0.3	0.5	2.9	0.3	1.3	6.2
SW	0.4	0.0	0.0	2.5	0.0	1.4	4.4
wsw	0.1	0.0	0.0	0.5	0.4	1.3	2.3
W	0.2	0.0	0.0	0.9	0.3	1.8	3.3
WNW	0.1	0.0	0.0	3.2	0.5	2.3	6.2
NW	0.5	0.0	0.1	10.8	0.4	3.8	15.7
NNW	0.3	0.0	0.0	2.9	1.4	4.7	9.3
All	12.1	5.1	6.2	34.8	9.4	32.1	99.7

Table 3 shows the frequency distribution by atmospheric stability categories A through F. Categories A through D occur in the daytime and categories D through F occur at night. Stability class was calculated by the method of Irwin (1980) which uses wind speed, standard deviation of wind direction and local sunrise and sunset times for determining daytime and nighttime periods. A nighttime correction is applied to the stability class determination. The assumed terrain mixing height was 15 centimeters. Table 3 shows that both daytime and nighttime winds were predominately out of the north (NW through ENE).

#### 2.2 Temperature

Temperature data summaries are presented in Table 4. Average temperature for the data collection period was 12.0 °C (53.6 °F). The coldest month of the period was December and the warmest was October. The minimum temperature recorded was -6.8 °C (19.8 °F) and the maximum was 31.7 °C (89.0 °F).

TABLE 4

MONTHLY TEMPERATURE MEANS AND EXTREMES

SOLEDAD MOUNTAIN PROJECT - MOJAVE, CALIFORNIA

OCTOBER - DECEMBER 1989

(\*C)

Month	Average Daily <u>Maximum</u>	Average Daily <u>Minimum</u>	Daily <u>Average</u>	Monthly <u>Maximum</u>	Monthly Minimum
0ದ	23.2	9.0	16.2	31.7	-2.3
Nov	20.5	4.8	12.4	27.3	-4.8
Dec	16.5	-0.9	7.4	22.7	-6.8
Qtr	20.1	4.3	12.0	31.7	-6.8

### APPENDIX A

Calibration Records

WIND SPEED CALIBRATION
CAMPBELL SCIENTIFIC LOGGER

	.,	Ç	TRID	\	<u> </u>
Sensor Model No			Client : _	: Cooklen	Queen / Salshi
Sensor Serial No	:_ C1136		Job No :	<u> 58</u>	)/
Sensor Height	: 1.5 m	<u> </u>	Site :	.In Hen	30
Logger Ser. No.	: 4813	>	Date :	9-2:5.	89
Name	: > ~ ~	زرع	Time :	5:30 ~	V54-
			•		
I. SYSTEM INSPE	CTION			هبر	
		PASS	FAIL		
	Bearings	No W			
	Cable	<u> </u>			
	Cups		·	·	
U SVSTERALIBUE	A DITT! CI !CC!!				•
II. SYSTEM LINE	ARITY CHECK				•
			•	_	
Input Fre	quency	Target	CRIC	Reading	
(Hz)	<u>)</u>	( molt-		m6/7)	
1. <u>/. 0</u>		2.799	_2	789	•
2. <u>/0.</u> c	)	<u>15.590</u>		17.890	
3. 0.0	Ø	1.0		1.0	•
4.					
5.		· · · · · · · · · · · · · · · · · · ·			•
6.			-	·	
7.	· · · · · · · · · · · · · · · · · · ·	<del></del>			
8.	·	*			•
9.					
<del></del>			•	:	
10	·				
			•		
	$(mph) = (Hz \times$				
Target	$(m/s) = (Hz \times I)$	0.798) + 0.447			
	0			•	
Comments:	used	30 +30	o Ran	Suncho	٨٥٠٠٥
Ac	Matoria				
				, .	
				1/ //	
		Signa	iture /	15/1	$\prec$
		-		AIR SCIE	NCES INC. 2/87
				- 1117	

## WIND DIRECTION CALIBRATION CAMPBELL SCIENTIFIC LOGGER CRIC

Sensor Sensor	r Height : <u>10</u> er Ser. No. : <u>5</u>	24 02-81 1m 392 :00 PST	Client: Cold  Job No: 55  Site: met  Date: 9-7  Name: ):	en Queen/So 8-7 tower 29-89 n King
ı. SYS	STEM INSPECTION			
	Bearings Cable Vane	PASS  V  V	FAIL .	
II. SY	STEM LINEARITY CH	ECK		•
1. 2. 3. 4. 5.	Orientation Vane Tail	Target (degrees) 180.5 360.5 360.5 126.5 221.5 41.5	(degrees) 150 360 35 127 222 40	Difference  - 0.5° - 0.5 - 1.5 0.5 - 1-5
Con	500	lington 15.51 sor slope. Screw =	71498	
		Orance = ±	5°	

#### TEMPERATURE CALIBRATION CAMPBELL SCIENTIFIC TO LOGGER CRID

Client:

ensor Model No:

den Queen Soldie ensor Serial No : Job No : ensor Height Site .ogger Ser. No. Date 4ame Time . SYSTEM INSPECTION PASS FAIL Radiation Shield Cable 1. SYSTEM PSYCHROMETER CHECK Psychrometer ( ) CR10 Reading Measured Corrected (degrees) 73.6 2. 3. 4. 5. 6. 7. 8. 9. 10. Average omments: Signature

## **APPENDIX B**

SAROAD Tables

\* Indicates calibration of sensors

AVG 36 56 56 56 56 57 57 58 58 59 50 50 50 50 50 50 50 50 50 50	
23 24 25 26 27 27 28 27 28 29 29 29 29 29 29 29 29 29 29	
22 32 33 34 35 36 37 36 37 37 38 38 38 38 38 38 38 38 38 38	
13	
20 12 12 13 13 15 15 15 15 15 15 15 15 15 15 15 15 15	
10 10 10 10 10 10 10 10 10 10 10 10 10 1	
136 123 38 123 123 123 123 123 123 123 123 123 123	
11	
168 999 999 999 999 999 999 999 999 999 9	
1105 1105 1105 1105 1105 1105 1105 1105	
14	
11	
12	
11 10 10 10 10 10 10 10 10 10 10 10 10 1	
50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
9 1 1 2 1 2 1 2 1 2 1 3 3 6 5 1 1 1 2 1 2 1 3 3 6 5 1 1 1 2 1 3 3 6 5 1 1 1 2 1 3 3 6 5 1 1 1 2 1 3 3 6 5 1 1 1 2 1 3 3 6 5 1 1 1 2 1 3 3 6 5 1 1 1 2 1 3 3 6 5 1 1 1 2 1 3 3 6 5 1 1 1 2 1 3 3 6 5 1 1 1 2 1 3 3 6 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
4 1 2 2 6 2 8 6 2 3 4 5 7 3 5 6 5 7 3 8 6 7 3 8 7 3 8 6 7 3 8	
25 25 2 1 1 2 1 2 1 2 2 2 3 3 3 5 2 3 3 3 5 3 5 3 5 3 5 3 5	
27 B 1 2 2 2 2 1 2 3 2 2 1 1 1 1 1 1 1 1 1 1	
28 11 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	
20 6 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
11 6 55 59 34 62 2 2 2 2 2 2 3 2 1 2 1 2 2 2 2 2 2 2 2	
2 12 12 12 12 12 12 12 12 12 12 12 12 12	
1 2 2 2 2 2 3 3 4 5 5 6 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6	
35 B B B B C 22 2 2 3 4 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
0 AY 0 A A B B B B B B B B B B B B B B B B B	

# HOURLY AVERAGED HIND DIRECTION OCTOBER 1989 SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORHIA UNITS ARE DEGREES AZIHUTH

2
245 314 314 314 314 314 314 314 314
259 1135 1135 1135 1135 1135 1135 1135 11
273 273 273 273 273 273 273 273 273 273
200 200 300 300 300 300 300 300 300 300
10 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
2262 312 312 312 312 316 316 316 316 317 42 310 42 42
16 231 317 317 317 317 317 317 317 317 317 3
15 202 212 2212 2212 2212 2213 315 315 315 315 316 317 318 318 318 318 318 318 318 318 318 318
2207 2207 2207 2207 2208 2208 2208 2208
2011 1198 1198 1198 1198 1198 1198 1198 1
221 221 1134 1134 1134 1134 1134 1134 11
222 222 222 222 222 222 222 222 222 22
153 153 153 153 153 153 153 153 153 153
11.8 3.11.8 3.12.0 3.12.0 3.12.0 3.14.0 3.15.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3
1148 3168 3179 3179 3179 3179 3179 3179 3179 3179
11.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7
25
1132 1132 1132 1132 1132 1132 1132 1132
250 250 250 250 250 250 250 250 250 250
255 255 255 256 256 256 256 256 256 256
2132 2132 2132 2132 2132 2132 2132 2132
100 100 100 100 100 100 100 100 100 100
2205 2205 2205 2210 2210 2210 2210 2210
DAY 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

<sup>\*</sup> Indicates calibration of sensors

\*\* Indicates invalid data

# HOURLY AVERAGED TEHPERATURE OCTOBER 1989 SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA UNITS ARE TENTHS OF A DEGREE CELSIUS

AVG	100	184 184	139	157	111	201	213	212	213	228	231	223	219	179	176	182	192	187	172	Ξ	B.	56	<b>2</b>	32	85	93	15	=	95	91	93		62	
23																																		
22																																		
21																																		
79																																		
19																																		
18																																		
11																																		
91																																		
15		0	100	5 5	57	63 2	82 2	90 2	02 2	07 2	13 2	04 2	96 2	=	33 1	53 23	11 2	16 21	11 2	5	5 7	8 13		3 E	ے =	4 15	7 12	5 16	1 14	6 15	5 17		7	
14 15	! !	2 3			56 2	72 2	85 2	91 2	32 3	<u>=</u>	17 3	9	10 2	2 1:	<u>8</u>	3 2	9 2	7 2	9 25	15	9 16	2 13	7 19	2	=	7 17	14	5 33	15	16	19		125	
12 13																																		
11 12																																		
11 01																																		
9 10																																		
6																																		
7 8																																		
6 7																																		
																															#			
 .v																																		
~	:	136	7 6	) G	3.5	128	169	100	132	172	179	165	166	107	150	==	122	113	83	93	126	84	134	88	3	36	75	82	99	-20	36	! !	106	-
		140	171	2 6	3 %	160	176	116	138	175	182	191	172	140	152	137	103	113	78	104	126	35	137	96	105	99	79	88	7	-7	52	1	114	•
2	1	<b>E</b> :	<u> </u>	2 5	3 8	168	182	166	136	147	183	170	18	140	154	137	108	=	83	109	126	105	133	8	109	99	82	83	78	11	19	!	118	:
-																																		:
_	_																														22			
					<b>₽</b> * LC																												AVERAGE	

Indicates calibration of sensors
 Indicates invalid data

AIR SCIENCES INC. Sardad(V6.0) 1/16/90

\* Indicates calibration of sensors

	AVG	;	<u>-</u> כ	3 [	<u> </u>	7	£ (	9	72	32	75	20	14	33	75	41	30	13	23	£ 8	a ;	<b>2</b> 5	5 5	ت بر د	55	62	8	42	36	37	= ;	33	•
	23																																
	22		_	_																													
																															=		
																															9		
	_				_			_								_			_												8		_
	_				_	_	_	_									_		_												5 E		_
																															9 15		
•			_		_	_		-						_			_			_	_										19		
																															=	•	
2 2 2	=	T T i	42	32	71	58	92	42		7 8	ם פר	ה ה	֓֞֞֓֓֓֓֓֓֟֓֓֓֟֓֓֓֟֟֓֓֓֟֟֓֓֓֟֓֓֟֟֓֓֟֓֓֟֟ ֓֓	ב ב	2 6	2.5	ה הר	3 2	4	52	37	56	83	5	æ ;	<b>2</b> 6	2 6	72	2 9	45	25	1 6	7¢
C # 3	=======================================	1	46	36	28	37	96	3	2	ξ ¥	ב כ כ	מ מ	בר ער ה	3 5	2 0	9 6	ה ה ה	5 =	7	53	38	13	96	13	92	<b>=</b> 3	9 5	ral o	2 5	46	76		24
A 112	12	!	50	38	25	4	. 67	: 5	) E	7	בי כ ד	2 5	3 2	C7 7	2 6	70	2 5	3 =	7 8	46	7	5	102	11	59	£ 3	<u> </u>	<u> </u>	2 3	<u> </u>	28	1 (	200
<u> </u>	=	1	59	37	32	2	3 5	£ C	3 2	3 5	2 9	<del>2</del> *	<b>=</b> ?	75	9 6	3 6	7 7	- 6	2 5	46	34	12	97	#	23	89	٤ ;	<u>e</u> 5	2 2	3 %	23	1	-
TENTI	10		48	35	٦.	1	= =	7	5 6	2 5	76		7 ;	7 ?	3 8	7.	7 7	£ 5	36	; <del>2</del>	38	22	98	=	78		53	<u>.</u>	2 2	G <b>V</b>	3 8	! !	45
ARE	6	. ! !	3	33	=	; =	7 7	ָר ס	5 6	200	£ ;	= 8	7	<u> </u>	3 3	40	97	2 5	÷ ÷	2 =	42	==	83	æ	13	33	9	8	<del>2</del> 5	96 94	2 =	:	33
JETTS	8	1 ±	74	. e	. E	: =	<u>ר</u>	3 6	2 5	3 2	= :	3	67	<b>=</b> 5	9.7 7.7	£ ;	<b>=</b> ?	2 °		- 4	14	<u> </u>	63	<b></b>	<b></b>	46	<del></del>	62		<del>-</del> -	20	!	35
_	7	. :	CP	3.	3 6	; =	2 5	2 2	2 2	£ .	<u></u>	<b>5</b> 6	=	<b>=</b> :	2 8	<b>E</b> 3	<b>2</b> 2	=======================================	- :	- E		- =	44	9	=	1.5	3	49	28	Ş Ç	5 5	!	32
	9	•	26	? =	- 4	2 7	<u>-</u> -	2 2	<u> </u>	<u>.</u>	<del>4</del> 8	30	2	= ;	=	83	64	77	<u>.</u> :	= 2	7 C	۲, ۲	3	=	13	25	<b>50</b>	102	30	57 5		!	32
	2	ָּי ד	7,	3 =	= =	<u> </u>	3:	<u>~</u>	<b>%</b>	<del>6</del>	Ξ	15	77	<del>-</del>	<u>5</u>	8	<u> </u>	÷.	ب ج	2 2	3 2	. E	2.2	? =	5	46	45	29	32	£ 5	- - -		3
	•	<b>.</b>	-	_	3 0	<b>5</b> 6	= '	<b>C</b> 7	<u>=</u>	65	42	=	36	13	<u>_</u>	75	38	<b>E</b> :	<u> </u>		- 6 7	3 5	: ×	22	Ξ	66	3 <del>4</del>	63	32	23	2 =	· :	3
			•																												<u>ہ</u> =	•	
	,	4	: :	<b>2</b>	2 9	- ;	= ;	7	35	29	=	9	<b>&amp;</b>	9	10	99	11	39	=:	<u> </u>	מי	ני ני ני	7.7 7.7	<u> </u>	. ~	23	54	12	40	<u>۾</u>	<u> </u>		28
	-	-	; ; ;	7 :	7 5	<u> </u>	<u>.</u>	25	28	<b>3</b> 0	o.	6	=																		ر ا		
	<	>	: :	<b>=</b> :	2	5	6	=	<b>8</b> 2	•	_	, <b>5</b>	52	7	9	15	34	33	_	<u> </u>	3 8	⊋ :	2 4	5 K	2 9	2.5	5	<b>8</b>	<b>5</b> 6	30	2 :	; ; =	28
			i `					. ,	. •	~,	,		, •	,		•	_	•	• -		. ~ `	. • •		~ **	**	•		_	. •	. •	•	į	308
		¥	t ·	<del></del> ,	~	~	₹	ഹ	•	-	œ	. 0	19	=	15	=	~	15	16		<b>=</b> :	<u> </u>	0.7 7	3 6	"	2 2	25	<u>26</u>	23	28	52 2	2	AYERAGE

Indicates calibration of sensors
 Indicates invalid data

# HOURLY AVERAGED HIND DIRECTION ROVENBER 1909 SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA UNITS ARE DEGREES AZIHUTH

23	340	9	245	231	135	312	325	13	328	190	293	3	296	356	290	45	21	339	321	=	₹.	159	225	318	202	354	5	355	328	2
. 22	=	33	300	194	125	303	145	350	331	25	155	130	283	16	. 597	98	360	342	269	35	360	270	100	303	215	322	-	348	342	0
21	19	.354	305	166	177	299	8	354	350	331	19	157	280	3	308	220	349	338	9	297	323	254	271	246	220	316	343	J	351	11
20																														
19																														
18																														
11	==	201	358	303	247	316	315	19	302	329	302	308	304	240	354	220	43	112	S.	146	319	240	. 124		91.	==	96	90	31	43 2
16	. 68	69	7	319	261	319	321	99	119	30	99	321	310	79	<del></del>	323	=	83	39		 8=		= :	9 7	15 2	28 3	83	73	7	45 3
15	. 6	19	3	321	300	323	318	15	75	20	69	316	316	70	21	30	49	84	54	72	28	= 2	00	69	18 2	12 3	11	70	72	35
<u>+</u>		2	106	308	309	321	310	99	80	26	51	=	. 926	1	99	69	20	72	74	75 1	23 3	46 1	13 3	33	24 2	35 3	9/	99	5.	9
13	::0	30	65	207	314	99	313	63	16	64	46	69	127	9/	70	59	99	99	74	02 1	13 3	47 1	16 3	37	12 2	36 3	=	89	<u> </u>	5.
12		99	59	174	305	83	315	57	72	65	49	133	124 3	69	89	28	09	64	62	78 2	16 3	9	25 3	35 29	7 = 5	37 36		.5	9	<del>-</del>
=	78	99	10	691	906	67	307	63	28	61	<b>5</b> 6	112 3	29 3	72	64	73	=	9	21	61 1	10 3	28	3	<b>4</b> 3	2 = 2	11 29	88	7	5	ري <u>م</u>
	99																													
<b>æ</b>	38	31	Ξ	123	. 61	60	112 ]	<b>5</b> 6	23	21	21 1	78 1	26 3	25	15	33	10	22	30	9	38 3	5 +	7.	14 20	5 2	5 31	<u>.</u>	9	-	С •
1	. 61	15	5	14	78 2	26 3	14 3	*	S	15	40 1	93 1	24 3	_	_	7	20 2	=	<u>-</u>	9 2	- 23 -	-	7 16	7 28	9 20	5 29	9	9	8	_
	327																													
	9 315																													
	9 (6																													
	293																													
	5 254																													
	292 9																													
. 0	1 =	30	35	27	5	29.	32	ý	297	34	35,	306	316	29B	_	333	S.	~~	354	337	320	356	205	204	326	204	355	21	25	32
DAY	-	7	. —	.~		•	-	<b>~</b>	6	10	=	12	Ξ	7	15	91	13	<del>=</del>	13	70	71	77	23	24	52	97	2.1	28	53	30

# HOURLY AVERAGED TEHPERATURE HOVEHBER 1989 SOLEDAD HOUXTAIK PROJECT - HOJAVE, CALIFORNIA UNITS ARE TENTHS OF A DEGREE CELSIUS

700 100 100 100 100 100 100 100 100 100	
23 50 101 101 102 103 103 103 103 103 103 103 103 103 103	
22 82 110 1114 1116 1119	
21	
26 87 122 122 122 123 113 113 113 113 113 113	
110 100 100 100 100 100 100 100 100 100	
117 117 117 117 117 117 117 117 117 117	
172 113 113 113 113 113 113 113 113 113 11	
179 179 179 179 179 179 179 179 179 179	
152 220 220 220 220 220 220 220 220 220 2	
194 194 195 195 195 195 195 195 195 195 195 195	
192 223 223 223 223 223 223 223 223 223 2	
18 11 11 11 11 11 11 11 11 11 11 11 11 1	
1172 1772 1772 1772 1772 1772 1772 1772	
162 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
151 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
·	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
55 50 50 50 50 50 50 50 50 50 50 50 50 5	
2   12   12   13   14   15   15   15   15   15   15   15	
128 114 10 10 10 10 10 10 10 10 10 10 10 10 10	
123 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
132 123 123 133 133 133 133 133 133 133	
135 1127 1127 1137 1137 1137 1137 1137 1137	
DAY 100 100 100 100 100 100 100 100 100 10	

\* Indicates calibration of sensors
\*\* Indicates invalid data

HOURLY AVERAGED HIND SPEED DECEMBER 1989

SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA UNITS ARE TENTHS OF A HETERS PER SECOND

AVG	10	, ,	3 6	Ξ;	<u>-</u> ;	9	<b>9</b>	13	5	53	=	₽:	7	<u> </u>	9	=	6	73	58 78	≅ :	<del>-</del> :	€ ;	<b>7</b>	<u>6</u> :	ء ج	57	ء ج	<b>9</b> :	69	æ :	9	<del>2</del>	; ;	07
23																																		
22																																		
21																																		
20																																		
19																																		
18																	•	•																
11																																		
																																16		
																																E		
																																32 3		
																																jê J		
																																25 3		
																																29 2		
																																21 2		
																																	-	
																																2		
																																. E		
9	,	~	<b>~</b>	_	. ~	. ~	د														_		_										·	
Z,		_				_																										. –		
																																? =	٠	
																																9		
																																	•	
					_																											. <del>.</del>		
																																	•	
9	1	œ	13		יר ר	9 ;	2 ;	771	7	<u>.</u>	2 \$	7 7		2	, <del>1</del>	ב ע	ב כ	-	= =	; <del>;</del>	2 =	2	<u> </u>	°	2 5	14	= =	<u> </u>	ט כ	17	2 7	==	1	
YAU	: :		۰ ،	۷ ر	<b>-</b>	<del>-</del> ,	.c. \	<b>.</b>	- (	<del></del>	<u>ئ</u> د	2 :	= ;	7 (	2 7	= 4	ב זי	2 ;	<u> </u>	<u> </u>	<u> </u>	3 [	17	<b>77</b>	7,7	, K	3 7	3 5	17	97	£ 7	3 =	;	AVERAGE

• Indicates calibration of sensors
•• Indicates invalid data

AIR SCIENCES INC. Saroro(v6.0) 1/16/90

# HOURLY AVERAGED HIND DIRECTION DECEMBER 1989 SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA UNITS ARE DEGREES RZINUTH

			_							_																							
	23	125	334	= ;	5	316	235	258	238	25	eac Tage	T .	<u> </u>		= :	<del></del>	336	150	236	98	359	282	148	323	350	350	339	242	323	12	309	348	
	22	42	323	314	= ;	310	312	261	513	340	345	ָ כ	2 :	151	323	268	340	167	<u>5</u>	342		299	325	<b>-</b> ;	154	348	340	216	318	45	313	56	
	21	343	သ	297	349	316	313	360	248	329	88 c	75	342	<b>=</b> ;	321	298	313	172	159	7	201	343	7	343	34.7	354	204	204	309	338	335	383	
	20																																
	61																														•		
	#																																
	11																																
																												•		•			
	5 16																																
	15																																
II.	14																																
AZII	13	3	46	28	169	301	64	42	150	100	5	29	69	49	152	187	79	247	204	54	139	39	25	3	65	55	57	193	308	38	47	113	
REES	12	73	46	64	152	185	106	32	158	=	52	63	64	53	¥	193	9	218	209	41	136	5	99	65	68	61	=	193	300	22	112	160	
)     	=	5.	55	53	132	103	28	35	39	111	54	99	=	52	32	188	40	216	213	104	193	59	43	44	49	20	30	111	314	15	191	165	
TS AR	10	33	99	46	110	183	53	7	28	168	54	99	38	~	172	174	34	206	198	40	8	186	Ξ	35	83	28	211	131	303	128	105	187	
E S		36																															
		· ·																															
		717																											-		-		
																									-				_	-			
																		-							٠		•	• •	•	•	•	• •	
		: •	16.	הליל הליל		֚֓֞֝֟֓֓֓֓֓֓֟֟֓֓֓֓֓֓֟֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֟֓֓֓֓֓֓	2 6	75.	186	73	34	25	3	38		150	2 4	75.	163	200	14		282	115	3 8	101	3 5	ייי	ארר ארר	ב ב	76	282	
		1 6	֓֞֟֟֟֟֟֟֟֟֟ ֓֟	376	ברר ברר	316	246	טרנ סרנ	מננ	בי על	360	2	15,	20.5	200	375	25	ננ	155	700	797	ני ני	24.9	2 2	27.5	203	201	מל ל	מרץ	117	200	` =	
	0	; ;	2 :	191	76.4	ייי כי	010	376	20¢	281	33	35	249	בי	100	2 5	מאַר פּ	מחר כ	15.0	100		אר פר	34)	: 5	נענ	3 5	<u>-</u>		296	C 72	נכנ	336	
	DAY		ہ ضم	7	7 -	7" 1	a 4	o :	~ @	3 0	, 5	= =	= \$	3 C	2	- 4	<u>.</u>	2 5	_ 0	2 5	2 5	) I	33	, r	7 6	<b>.</b> 7	C Y	9 8	17	97	6 <i>7</i>	3 =	

Indicates calibration of sensors
 Indicates invalid data

# NOURLY AVERAGED TENPERATURE DECENBER 1989 SOLEDAD NOUNTAIN PROJECT - NOJAVE, CALIFORNIA UNITS ARE TENTUS OF A DEGREE CELSIUS

11	
11	
22 111 110 110 110 110 110 110 110 110 1	
21 21 22 22 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	
28 132 132 132 132 132 132 132 132 133 133	
13	
18 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
172 18 18 18 18 18 18 18 18 18 18 18 18 18	
143 156 156 156 157 156 156 156 156 156 156 156 156 156 156	
150 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
142 173 163 163 163 163 163 163 163 163 163 16	
136 196 196 197 197 197 197 197 197 197 197 197 197	
159 159 159 159 159 159 159 159 159 159	•
144 155 156 166 167 175 175 175 175 175 175 175 175 175 17	
120 1120 1120 1120 1130 1130 1130 1130 1	
1139 1139 1139 1139 1139 1139 1139 1139	
78 1117 1117 1117 1117 1117 1117 1117 1	
21 14 15 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17	
6 125 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
22 - 23 - 23 - 23 - 23 - 23 - 23 - 23 -	
22 - 25 - 25 - 25 - 25 - 25 - 25 - 25 -	
22 - 25 - 25 - 25 - 25 - 25 - 25 - 25 -	
25 25 25 25 25 25 25 25 25 25 25 25 25 2	
11 19 19 19 19 19 19 19 19 19 19 19 19 1	
113 113 113 113 113 113 113 113 113 113	
DAY 111111111111111111111111111111111111	

\* Indicates calibration of sensors

AIR SCIENCES INC. SAROAD(V6.0) 1/16/90

## APPENDIX C

Frequency Distribution by Direction and Speed

## FREQUENCY OF WINDS BY DIRECTION AND SPEED FOR STABILITY CLASS 'A' SOLEDAD MOUNTAIN PROJECT - MOJAVE, CALIFORNIA OCTOBER - DECEMBER 1989

#### Speed Class Intervals(kts)

rustion	1,<3	3,<6	6,<10	10,<16	16,<21	>21	All	Mean Speed
NNE	2.3	0.8	0.0	0.0	0.0	0.0	3.0	2.6
	2.3	3.0	0.8	0.0	0.0	0.0	5.0	3.6
NE	3.0	10.5	2.3	0.0	0.0	0.0	15.8	4.6
- ENE	1.1	6.0	6.0	0.0	0.0	0.0	13.2	5.6
3	2.6	4.9	0.8	0.0	0.0	0.0	8.3	4.0
£SE	2.3	3.8	0.0	0.0	0.0	0.0	6.0	3.3
_SE	4.1	2.6	0.0	0.0	0.0	0.0	6.8	
3SE	3.0	6.8	0.4	0.0	0.0	0.0		2.9
3	2.3	6.0	1.1	0.0	0.0	0.0	10.2	3.3
SSW	2.6	2.6	2.6	0.0	0.0		9.4	4.0
3W	0.8	1.5	1.1	9.0		0.0	7.9	4.7
1SW	0.0	0.0	0.8		0.0	0.0	3.4	4.6
ผ	0.8	0.0		0.0	0.0	0.0	0.8	8.7
- WNW	0.4		0.8	0.4	0.0	0.0	1.9	6.4
1W		0.0	0.4	0.4	0.0	0.0	1.1	7.4
	1.9	0.4	1.1	0.8	0.0	0.0	4.1	5.5
MNE	1.1	0.8	0.4	0.0	0.0	0.0	2.3	3.4
*11	30.5	49.6	18.4	1.5	0.0	0.0	100.0	4.3

Calm (less than one knot) = 0.0%
Period mean wind speed = 4.3 knots
Percent occurrance for 'A' stability class(es) 12.0%

AIR SCIENCES INC. SBWIND(1.2) 1/10/90

## FREQUENCY OF WINDS BY DIRECTION AND SPEED FOR STABILITY CLASS 'C' SOLEDAD MOUNTAIN PROJECT - MOJAVE, CALIFORNIA OCTOBER - DECEMBER 1989

#### Speed Class Intervals(kts)

Direction	1,<3	3,<6	6,<10	10,<16	16,<21	>21	All	Mean Speed
N	0.0	2.9	0.7	0.0	0.0	0.0	3.7	5.0
NNE	0.0	7.4	4.4	0.7	0.0	0.0 -	12.5	5.9
NE	0.7	2.2	15.4	1.5	0.0	0.0	19.9	7.3
ENE	0.0	0.7	32.4	6.6	0.0	0.0	39.7	8.2
E	0.0	0.7	1.5	0.0	0.0	0.0	2.2	6.3
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.7	0.0	0.0	0.0	0.0	0.0	0.7	
SSE	0.7	0.7	0.0	0.0	0.0	0.0	1.5	1.9
S	0.0	3.7	3.7	0.0	0.0	0.0		4.2
SSW	0.0	2.9	2.9	2.2	0.0	0.0	7.4	5.9
SW	0.0	0.0	0.7	0.0	0.0	0.0	8.1	7.8
wsw	0.7	0.0	0.0	0.0	0.0	0.0	9.7	9.5
W	0.0	0.0	0.7	9.0	9.8		0.7	2.1
WNW	0.0	0.0	0.0			0.0	0.7	8.6
NW	0.7	0.0		0.0	0.0	0.0	0.0	0.0
WNN	0.0		1.5	0.0	0.0	0.0	2.2	6.7
		0.0	0.0	0.0	0.0	0.0	0.0	0.0
All	3.7	21.3	64.0	11.0	0.0	0.0	100.0	7.2

Calm (less than one knot) = 0.0%
Period mean wind speed = 7.2 knots
Percent occurrance for 'C' stability class(es) 6.2%

AIR SCIENCES INC. SEWIND(1.2) 1/10/90

## FREQUENCY OF WINDS BY DIRECTION AND SPEED FOR STABILITY CLASS 'D' SOLEDAD MOUNTAIN PROJECT - MOJAVE, CALIFORNIA OCTOBER - DECEMBER 1989

#### Speed Class Intervals(kts)

Direction	1,<3	3,<6	5,<10	10,<16	16,<21	>21	All	Mean Speed
N	0.1	3.7	2.7	0.4	0.0	0.0	6.9	6.3
NNE	0.0	2.3	5.1	0.1	0.0	0.1	7.7	7.1
NE	0.0	1.2	4.8	0.9	0.3	0.1	7.3	8.4
ENE	0.0	1.0	1.7	3.1	0.0	0.0	5.9	9.9
E	0.0	0.0	0.4	0.8	0.0	0.0	1.2	10.7
ESE	0.0	0.0	0.1	0.0	0.0	0.0	0.1	6.2
SE	0.0	0.1	0.0	0.0	0.0	0.0	0.1	5.4
SSE	0.0	0.8	0.0	0.0	0.0	0.0	0.8	4.0
S	0.0	0.8	1.0	0.0	0.0	0.0	1.8	6.7
SSW	0.1	0.1	2.6	3.7	1.6	0.3	8.4	12.3
SW	0.0	0.4	2.3	3.3	1.2	0.0	7.2	12.2
wsw	0.0	0.1	1.0	9.1	0.0	0.0	1.3	7.7
W	0.0	0.1	2.0	0.7	0.0	0.0	2.7	8.5
WNW	0.0	0.4	1.8	4.6	1.8	0.7	9.3	13.2
NW	0.5	0.4	2.5	11.5	11.4	4.8	31.1	16.3
NNW	0.1	1.8	3.0	2.1	0.9	0.3	8.2	10.3
All	0.9	13.3	31.2	31.2	17.1	6.3	100.0	11.8

Calm (less than one knot) = 0.0%
Period mean wind speed = 11.8 knots
Percent occurrance for 'D' stability class(es) 34.7%

AIR SCIENCES INC. SEWIND(1.2) 1/10/90

## FREQUENCY OF WINDS BY DIRECTION AND SPEED FOR STABILITY CLASS 'E' SOLEDAD MOUNTAIN PROJECT - MOJAVE, CALIFORNIA OCTOBER - DECEMBER 1989

#### Speed Class Intervals(kts)

N 2.9 7.7 27.4 0.0 0.0 0.0 38.0 5.3 NNE 1.9 3.4 5.8 0.0 0.0 0.0 11.1 5.7 NE 0.5 2.9 0.5 0.0 0.0 0.0 1.0 5.0 ENE 0.0 1.0 0.0 0.0 0.0 0.0 1.0 5.8 ESE 0.0 0.0 0.0 0.0 0.0 1.0 5.8 SE 0.5 0.5 0.0 0.0 0.0 0.0 0.0 1.0 5.8 SE 0.5 0.5 0.0 0.0 0.0 0.0 0.0 1.0 2.8 SSE 0.0 1.9 0.0 0.0 0.0 0.0 0.0 1.9 4.4 S 1.0 5.3 0.5 0.0 0.0 0.0 0.0 1.9 4.4 S 1.0 5.3 0.5 0.0 0.0 0.0 0.0 1.9 4.4 S 1.0 5.3 0.5 0.0 0.0 0.0 0.0 1.9 4.4 S 1.0 5.3 0.5 0.0 0.0 0.0 0.0 1.9 4.4 S 1.0 5.3 0.5 0.0 0.0 0.0 0.0 1.9 5.2 SW 0.0 1.4 1.4 0.0 0.0 0.0 0.0 2.9 5.2 SW 0.0 0.0 0.0 0.0 0.0 0.0 0.5 6.2 WSW 0.5 1.0 2.4 0.0 0.0 0.0 0.0 3.8 6.0 W 0.5 2.4 0.5 0.0 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 0.0 14.9 5.4 NNW 2.4 1.9 0.0 0.0 0.0 0.0 14.9 5.4 NNW 1.4 5.8 7.7 0.0 0.0 0.0 0.0 14.9 5.4 All 13.5 37.0 49.5 0.0 0.0 0.0 0.0 100.0 5.5	Dir	ection	1,<3	3,<6	6,<10	10,<16	16,<21	>21	A11	mean Speed
NNE 1.9 3.4 5.8 0.0 0.0 0.0 11.1 5.7 NE 0.5 2.9 0.5 0.0 0.0 0.0 3.8 4.2 ENE 0.0 1.0 0.0 0.0 0.0 0.0 1.0 5.0 E 0.0 0.0 0.0 0.0 0.0 0.0 1.0 5.8 ESE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 6.4 SE 0.5 0.5 0.0 0.0 0.0 0.0 0.0 1.0 2.8 SSE 0.0 1.9 0.0 0.0 0.0 0.0 0.0 1.9 4.4 S 1.0 5.3 0.5 0.0 0.0 0.0 0.0 1.9 4.4 S 1.0 5.3 0.5 0.0 0.0 0.0 0.0 6.7 4.2 SSW 0.0 1.4 1.4 0.0 0.0 0.0 0.0 2.9 5.2 SW 0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.0 0.5 6.2 WSW 0.5 1.0 2.4 0.0 0.0 0.0 0.0 3.8 6.0 W 0.5 2.4 0.5 0.0 0.0 0.0 0.0 3.8 6.0 W 0.5 2.4 0.5 0.0 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 0.0 5.3 4.7 NW 2.4 1.9 0.0 0.0 0.0 0.0 0.0 14.9 5.4		N	2.9	7.7	27.4	0.0	9.0	9.8	38 A	5 3
NE 0.5 2.9 0.5 0.0 0.0 0.0 3.8 4.2 ENE 0.0 1.0 0.0 0.0 0.0 0.0 1.0 5.0 E 0.0 1.0 0.0 0.0 0.0 0.0 1.0 5.8 ESE 0.0 0.0 0.5 0.0 0.0 0.0 0.0 0.5 6.4 SE 0.5 0.5 0.0 0.0 0.0 0.0 1.0 2.8 SSE 0.0 1.9 0.0 0.0 0.0 0.0 1.9 4.4 S 1.0 5.3 0.5 0.0 0.0 0.0 0.0 1.9 4.4 S 1.0 5.3 0.5 0.0 0.0 0.0 0.0 2.9 5.2 SW 0.0 1.4 1.4 0.0 0.0 0.0 0.0 2.9 5.2 SW 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 6.2 WSW 0.5 1.0 2.4 0.0 0.0 0.0 0.0 3.8 6.0 W 0.5 2.4 0.5 0.0 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 0.0 5.3 4.7 NW 2.4 1.9 0.0 0.0 0.0 0.0 0.0 14.9 5.4		NNE								
ENE 0.0 1.0 0.0 0.0 0.0 0.0 1.0 5.0 E 0.0 1.0 0.0 0.0 0.0 0.0 0.0 1.0 5.8 ESE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 6.4 SE 0.5 0.5 0.0 0.0 0.0 0.0 0.0 1.0 2.8 SSE 0.0 1.9 0.0 0.0 0.0 0.0 0.0 1.9 4.4 S 1.0 5.3 0.5 0.0 0.0 0.0 0.0 6.7 4.2 SSW 0.0 1.4 1.4 0.0 0.0 0.0 0.0 2.9 5.2 SW 0.0 0.0 0.0 0.0 0.0 0.0 0.5 6.2 WSW 0.5 1.0 2.4 0.0 0.0 0.0 0.0 3.8 6.0 W 0.5 2.4 0.5 0.0 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 0.0 5.3 4.7 NW 2.4 1.9 0.0 0.0 0.0 0.0 0.0 14.9 5.4		NE	0.5	2.9	0.5					
E 0.0 1.0 0.0 0.0 0.0 0.0 1.0 5.8 ESE 0.0 0.0 0.0 0.0 0.0 0.0 0.5 6.4 SE 0.5 0.5 0.0 0.0 0.0 0.0 0.0 1.0 2.8 SSE 0.0 1.9 0.0 0.0 0.0 0.0 0.0 1.9 4.4 S 1.0 5.3 0.5 0.0 0.0 0.0 0.0 5.7 4.2 SSW 0.0 1.4 1.4 0.0 0.0 0.0 0.0 2.9 5.2 SW 0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.5 6.2 WSW 0.5 1.0 2.4 0.0 0.0 0.0 0.0 3.8 6.0 W 0.5 2.4 0.5 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 0.0 5.3 4.7 NW 2.4 1.9 0.0 0.0 0.0 0.0 0.0 14.9 5.4		ENE	0.0	1.0	0.0	0.0				
ESE 0.0 0.0 0.5 0.0 0.0 0.0 0.5 6.4 SE 0.5 0.5 0.0 0.0 0.0 0.0 1.0 2.8 SSE 0.0 1.9 0.0 0.0 0.0 0.0 1.9 4.4 S 1.0 5.3 0.5 0.0 0.0 0.0 0.0 6.7 4.2 SSW 0.0 1.4 1.4 0.0 0.0 0.0 0.0 2.9 5.2 SW 0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.5 6.2 WSW 0.5 1.0 2.4 0.0 0.0 0.0 0.0 3.8 6.0 W 0.5 2.4 0.5 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 0.0 5.3 4.7 NW 2.4 1.9 0.0 0.0 0.0 0.0 0.0 14.9 5.4		E	0.0	1.0	0.0	0.0	0.0			
SE       0.5       0.5       0.0       0.0       0.0       0.0       1.0       2.8         SSE       0.0       1.9       0.0       0.0       0.0       0.0       1.9       4.4         S       1.0       5.3       0.5       0.0       0.0       0.0       6.7       4.2         SSW       0.0       1.4       1.4       0.0       0.0       0.0       2.9       5.2         SW       0.0       0.0       0.0       0.0       0.0       0.0       0.5       6.2         WSW       0.5       1.0       2.4       0.0       0.0       0.0       3.8       6.0         W       0.5       2.4       0.5       0.0       0.0       0.0       3.4       4.2         WNW       1.9       1.0       2.4       0.0       0.0       0.0       3.4       4.2         WNW       1.9       1.0       2.4       0.0       0.0       0.0       3.4       4.2         WNW       1.9       1.0       2.4       0.0       0.0       0.0       4.3       3.5         NNW       1.4       5.8       7.7       0.0       0.0       0.0 <td></td> <td></td> <td>0.0</td> <td>0.0</td> <td>0.5</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td></td> <td></td>			0.0	0.0	0.5	0.0	0.0	0.0		
SSE 0.0 1.9 0.0 0.0 0.0 0.0 1.9 4.4 S 1.0 5.3 0.5 0.0 0.0 0.0 6.7 4.2 SSW 0.0 1.4 1.4 0.0 0.0 0.0 0.0 2.9 5.2 SW 0.0 0.0 0.5 0.0 0.0 0.0 0.5 6.2 WSW 0.5 1.0 2.4 0.0 0.0 0.0 3.8 6.0 W 0.5 2.4 0.5 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 5.3 4.7 NW 2.4 1.9 0.0 0.0 0.0 0.0 5.3 4.7 NW 1.4 5.8 7.7 0.0 0.0 0.0 0.0 14.9 5.4		SE	0.5	0.5	0.0	0.0	0.0	0.0		
S 1.0 5.3 0.5 0.0 0.0 0.0 6.7 4.2 SSW 0.0 1.4 1.4 0.0 0.0 0.0 0.0 2.9 5.2 SW 0.0 0.0 0.0 0.0 0.0 0.0 0.5 6.2 WSW 0.5 1.0 2.4 0.0 0.0 0.0 3.8 6.0 W 0.5 2.4 0.5 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 5.3 4.7 NW 2.4 1.9 0.0 0.0 0.0 0.0 5.3 3.5 NNW 1.4 5.8 7.7 0.0 0.0 0.0 0.0 14.9 5.4		SSE	0.0	1.9	0.0	0.0	0.0	0.0	1.9	
SSW 0.0 1.4 1.4 0.0 0.0 0.0 2.9 5.2 SW 0.0 0.0 0.0 0.0 0.0 0.5 6.2 WSW 0.5 1.0 2.4 0.0 0.0 0.0 0.0 3.8 6.0 W 0.5 2.4 0.5 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 0.0 5.3 4.7 NW 2.4 1.9 0.0 0.0 0.0 0.0 5.3 4.7 NW 1.4 5.8 7.7 0.0 0.0 0.0 0.0 14.9 5.4				5.3	0.5	0.0	0.0	0.0	6.7	
WSW 0.5 1.0 2.4 0.0 0.0 0.0 3.8 6.0 W 0.5 2.4 0.5 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 5.3 4.7 NW 2.4 1.9 0.0 0.0 0.0 0.0 5.3 4.7 NNW 1.4 5.8 7.7 0.0 0.0 0.0 14.9 5.4		SSW		1.4	1.4	0.0	0.0	0.0	2.9	
W 0.5 2.4 0.5 0.0 0.0 0.0 3.4 4.2 WNW 1.9 1.0 2.4 0.0 0.0 0.0 5.3 4.7 NW 2.4 1.9 0.0 0.0 0.0 0.0 4.3 3.5 NNW 1.4 5.8 7.7 0.0 0.0 0.0 14.9 5.4				0.0	0.5	0.0	0.0	0.0	0.5	6.2
WNW 1.9 1.0 2.4 0.0 0.0 0.0 5.3 4.7 NW 2.4 1.9 0.0 0.0 0.0 0.0 4.3 3.5 NNW 1.4 5.8 7.7 0.0 0.0 0.0 14.9 5.4				1.0	2.4	0.0	0.0	0.0	3.8	6.0
NW 2.4 1.9 0.0 0.0 0.0 0.0 4.3 3.5 NNW 1.4 5.8 7.7 0.0 0.0 0.0 14.9 5.4				2.4		0.0	0.0	0.0	3.4	4.2
NNW 1.4 5.8 7.7 0.0 0.0 0.0 14.9 5.4				1.0	2.4	0.0	0.0	0.0	5.3	4.7
1			2.4			9.0	0.0	0.0	4.3	3.5
All 13.5 37.0 49.5 0.0 0.0 0.0 100.0 . 5.5						0.0	0.0	0.0	14.9	5.4
		All	13.5	37.0	49.5	0.0	0.0	0.0	100.0	. 5.5

Calm (less than one knot) = 0.0%
Period mean wind speed = 5.5 knots
Percent occurrance for 'E' stability class(es) 9.4%

AIR SCIENCES INC. SBWIND(1.2) 1/10/90

# FREQUENCY OF WINDS BY DIRECTION AND SPEED FOR STABILITY CLASS 'F' SOLEDAD MOUNTAIN PROJECT - MOJAVE, CALIFORNIA OCTOBER - DECEMBER 1989

#### Speed Class Intervals(kts)

Direc	ction	1,<3	3,<6	6,<10	10,<16	16,<21	>21	All	Mean Speed
	N NNE	8.3 5.4	4.6 4.5	0.0	0.0	0.0 0.0	0.0	12.9	2.8
F	ne Ene	4.6 2.6	1.4 1.1	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	6.0 3.8	2.9
I	ese Ese	2.1 1.9	0.1 0.4	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	2.2	2.6
5	SE SSE	1.4	0.7 2.2	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	2.1	2.3 2.8 3.0
S	S SSW	2.4	1.9	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	4.3	3.0 2.9
¥	nsw Nsw	2.1	1.9	0.0	0.0	0.0 0.0	0.0 0.0	4.3	2.8
F	1M 1UM 1UM	3.9 4.9 8.2	1.5	0.0 0.0	0.0	0.0 0.0	0.0 0.0	5.4 7.2	2.7
N	NW All	8.9 63.3	3.6 5.6 35.9	0.0 0.0	0.0	0.0	0.0	11.8 14.5	2.7 2.8
•		70.0	JJ. J	0.0	0.0	0.0	0.0	99.2	2.8

Calm (less than one knot) = 0.8%
Period mean wind speed = 2.7 knots
Percent occurrance for 'F' stability class(es) 32.6%

AIR SCIENCES INC. SBWIND(1.2) 1/10/90

## APPENDIX D

Wind Speed Frequency Distributions

## AVERAGE FREQUENCY DISTRIBUTION OF WIND SPEEDS SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA OCTOBER 1989

(%)

#### Wind Speed Intervals (mph)

		. 10				·				Нах	
Day	< 10	>=10 , < 13	>=13, < 16	>=16, < 19	>=19, < 22	>=22, < 25	>=25, < 28	>=28, < 31	74		Time
									>=31	(mph)	Period
1	71.1	10.7	11.4	6.8	8.9	0.0	0.0	0.0	0.0	22.3	1
2	33.1	10.7	7.9	12.3	14.6	12.5	6.9	1.9	0.0	32.7	
3	48.6	16.3	12.5	10.6	7.7	3.6	0.7	0.1	0.0	29.1	2 3 2 3 2 3 2 2 2 3 1 2 2 2 2 2 2
4	82.8	14.2	2.8	0.2	0.0	0.0	0.0	0.0	6.0	17.8	ວ າ
5	90.2	9.3	0.5	0.0	0.0	0.0	0.0	0.0	8.8	15.1	3
6	55.9	16.4	17.1	8.6	1.9	0.1	0.0	0.0	8.8	23.9	3
7	61.5	19.2	12.5	5.8	8.9	0.1	0.0	0.0	0.0	23.2	2
8	81.7	10.3	5.5	2.3	0.2	0.0	0.0	0.0	8.8	20.9	2
9	97.3	2.6	0.1	0.0	0.8	0.0	0.0	0.0	9.9	14.2	2
10	71.1	10.3	11.8	5.8	1.0	0.0	9.0	0.0	9.0	22.3	3
11	83.6	11.8	4.1	0.5	0.0	0.0	0.0	0.0	0.0	20.0	2
12	84.5	10.6	4.4	0.5	9.0	0.0	0.0	0.0	0.0	18.7	2
13	85.8	9.2	4.4	0.5	8.8	0.0	0.8	0.0	0.0	18.0	2
14	34.0	6.9	6.8	6.9	9.5	11.2	10.3	8.2	7.0	47.0	3
15	10.7	3.4	5.7	9.3	13.9	18.0	17.5	12.7	8.8	41.1	1
16	97.7	1.8	0.4	0.1	0.0	0.0	0.0	0.0	0.0	18.9	2
17	66.0	25.6	6.9	1.5	8.0	0.0	0.0	0.0	0.0	20.0	2
18	90.0	9.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	15.1	2
19	91.7	6.8	1.4	0.1	0.0	0.0	0.0	0.0	0.0	17.6	2
20	46.0	10.6	11.6	11.3	9.5	6.5	3.0	1.4	0.2	34.1	2
21	29.8	28.7	16.1	16.0	11.7	5.1	0.5	0.8	0.0	28.7	2
22	98.7	1.2	8.1	0.0	8.8	0.0	0.0	0.0	0.0	14.4	7
23	50.1	14.7	12.7	14.1	6.8	1.5	0.1	0.0	0.0	27.3	3 2
24	66.4	9.2	9.3	8.3	4.4	1.8	0.6	0.1	0.0	28.9	2
25 26	9.2	8.3	12.3	15.5	17.6	13.1	8.4	6.9	8.6	50.6	3
26	65.6	8.6	8.8	8.5	5.4	2.7	0.5	0.0	0.0	28.6	1
27	11.8	7.8	13.8	17.8	14.6	12.1	8.7	7.7	7.2	42.5	3
28	69.1	17.2	5.8	1.3	1.1	1.6	1.7	1.6	1.5	40.7	1
29	35.8	29.7	21.3	10.8	2.8	<b>0.</b> 5	0.1	0.8	9.8	26.0	2
30	91.0	7.7	1.2	8.8	0.0	0.0	0.0	0.0	9.0	16.0	2
31	98.4	1.6	8.8	0.0	8.6	8.8	0.0	0.0	0.0	13.5	2
All*	64.8	11.0	7.4	5.6	4.0	2.9	1.9	1.3	1.1	50.6	3

<sup>\*</sup> All data on this line are monthly averages of the daily values except for maximum gust and time period which are the maximum gust recorded during the month and the time period of that gust.

## AVERAGE FREQUENCY DISTRIBUTION OF WIND SPEEDS SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA NOVEHBER 1989 (%)

Wind Speed Intervals (mph)

		>=10	>=13,	>=16,	>=19,	>=22,	>=25,	>=28,		Max Gust	Time
Day	< 10	< 13	< 16	< 19	< 22	< 25	< 28	< 31	>=31		Period
1	82.2	12.8	4.5	0.5	9.8	9.8	0.0	8.8-	0.0	18.4	2
2	96.0	3.9	0.1	6.6	8.8	0.0	0.0	0.0	0_8	13.9	2
3	99.3	8.7	0.0	0.0	0.0	0.0	0.8	0.0	0.0	12.1	2
4 5 6	82.2	6.8	5.3	4.1	1.4	0.2	0.0	9.0	0.0	24.8	2 3 2 3 1
5	68.7	10.2	5.3	5.9	5.0	3.6	1.0	0.3	0.0	32.3	2
	32.8	9.6	7.6	14.2	16.5	11.3	4.5	1.8	1.8	40.9	. 3
7 8	19.3	6.8	13.4	21.6	21.6	13.1	3.6	0.7	0.0	33.7	1
	84.3	13.8	1.7	0.2	0.0	0_0	0.0	8.8	9.0	18.0	
9	96.3	3.7	8.8	8.8	0.0	0.0	0.0	0.9	0.0	14.8	2
10	99.3	0.7	0.0	0.0	0.8	0.0	0.0	0.0	0.0	12.3	2
11	99.9	0.1	0.0	9.9	0.0	8.0	0.0	9.9	0.0	18.5	2
12	74.0	6.5	7.3	7.8	3.8	8.6	0.0	8.8	9.0	26.8	3
13	9.3	13.5	17.9	23.9	21.3	11.2	2.7	8.2	0.0	30.2	
14	68.4	9.1	7.1	7.1	4.7	2.5	8.8	0.2	0.0	31.1	• 1
15	93.3	6.3	0.4	8.0	8.8	0.0	0.0	0.0	8.8	15.8	2
16	97.5	2.3	0.2	0.0	0.0	8.8	0.0	0.0	9.8	15.7	2
17	92.0	7.2	8.0	0.0	0.0	8.8	0.0	0.0	0.0	16.6	3
18	78.2	17.0	4.1	0.6	0.0	0.8	0.0	0.0	0.0	20.0	2
19	92.7	7.2	0.1	0.0	8.0	0.0	0.8	6.8	0.8	14.2	2
20	99.2	8.8	0.0	0.0	8.8	0.0	0.0	0.0	0.0	11.9	3
21	27.4	9.7	11.9	15.0	16.6	13.1	5.1	1.2	0.1	32.3	3
22	100.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	8_8	8.5	3
23	67.6	7.9	9.9	8.1	3.9	1.8	0.6	8.1	0.0	30.7	
24	44.9	9.4	11.2	13.0	10.8	6.9	2.7	1.0	0.2	33.2	2
25	24.8	14.8	24.1	22.1	9.6	3.9	1.3	0.3	0.0	33.6	2
26	10.1	9.9	16.0	19.8	17.0	12.8	7.6	4.1	2.7	39.8	3
27	62.6	13.7	11.9	7.6	3.3	8.8	0.2	8.8	8.8	27.7	2
28	65.7	15.5	12.8	5.1	0.9	0.0	0.0	0.0	8.8	23.5	2
29	76.0	22.8	1.2	8.8	9.8	0.0	0.0	0.0	8.8	17.3	
30	98.0	2.8	9.9	8.8	0.0	0.0	0.0	9.9	0.0	13.0	2
All*	71.4	8.2	5.6	5.9	4.5	2.7	1.0	6.3	6.2	40.9	3

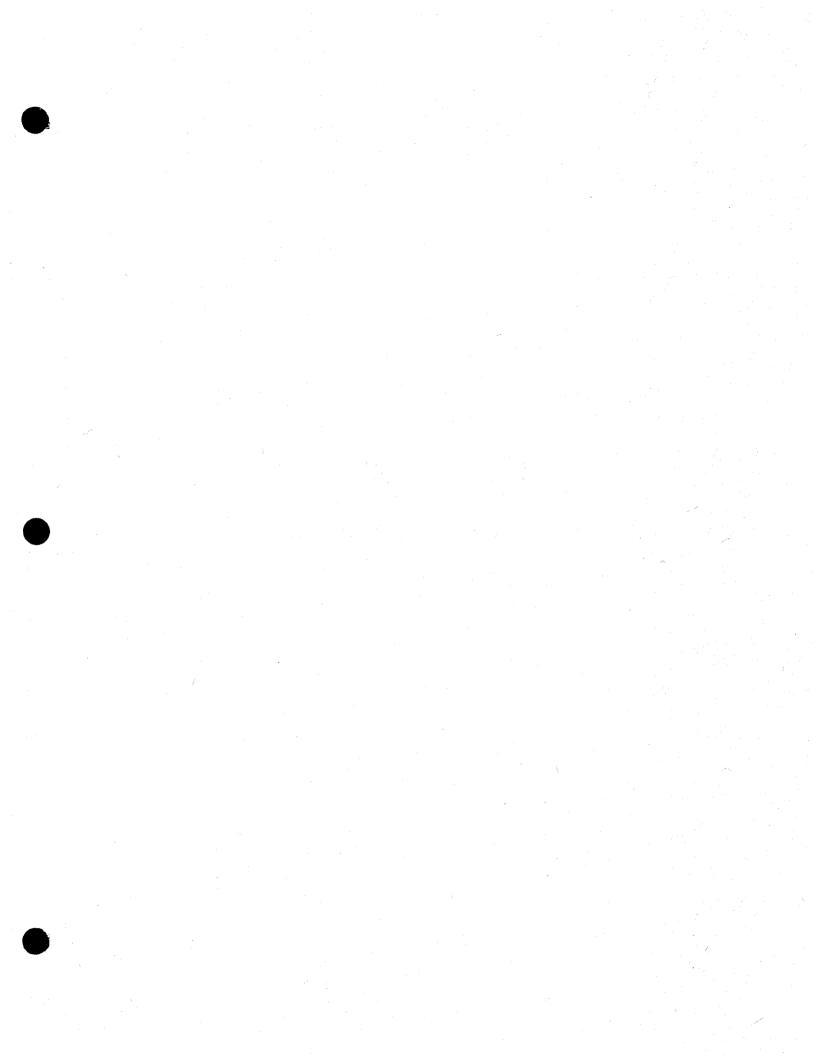
<sup>\*</sup> All data on this line are monthly averages of the daily values except for maximum gust and time period which are the maximum gust recorded during the month and the time period of that gust.

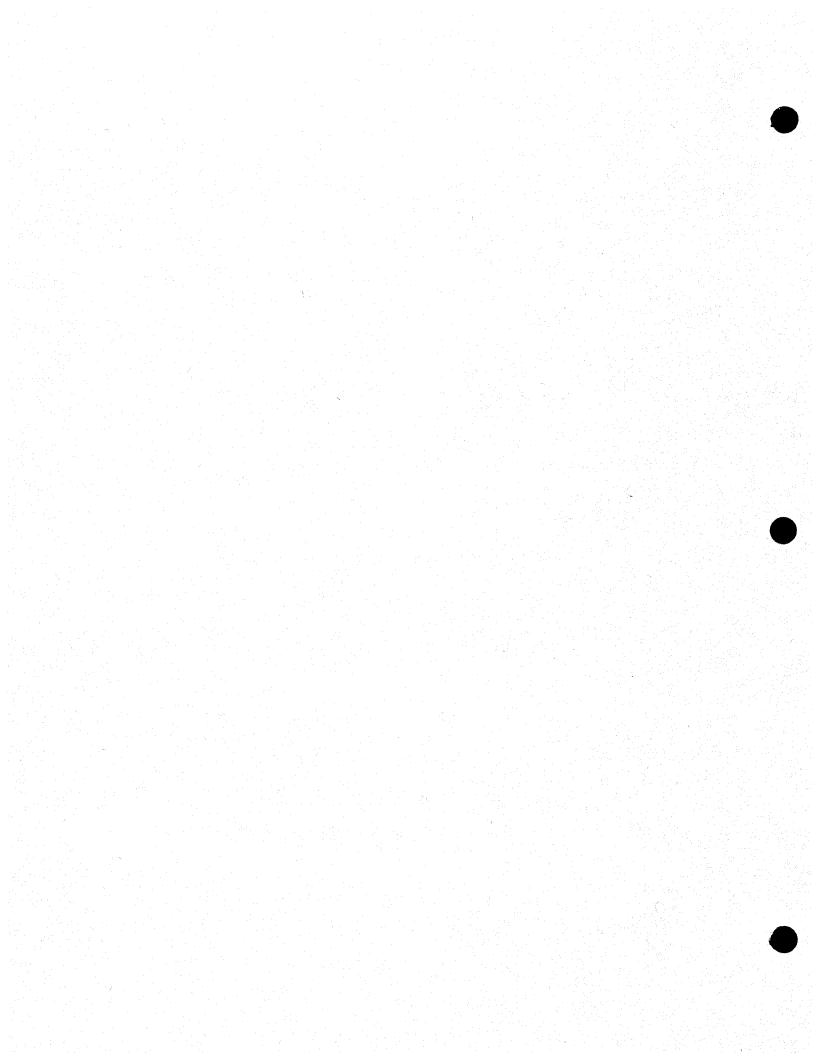
# AVERAGE FREQUENCY DISTRIBUTION OF WIND SPEEDS SOLEDAD HOUNTAIN PROJECT - HOJAVE, CALIFORNIA DECEMBER 1989 (%)

Wind Speed Intervals (mph)

	Indicate (mpii)										
Day	< 10	< 13 ———		>=16, < 19	>=19, < 22	>=22, < 25	>=25, < 28	>=28, < 31		Max Gust (mph)	Time Period
1 2	97.5 97.5	2.5	8.8	0.0	9.0		0.0	8.8	9.0	12.5	2
2 3	75.3	2.5	0.0	0.0	0.0	9.0	0.0	0.0	0.0	12.5	
4		22.7	2.0	0.0	0.0	0.0	9.0		0.0	15.5	
7 E	100.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	8.8		
5	55.1	2.9	4.1	5.8	6.1	4.1	3.2	4.1		8.9	2
0	77.3	5.4	2.8	2.7	2.1	2.2	2.3	2.1	14.6	48.9	
7	98.1	1.9	0.0	8.6	0.0	0.0	0.0	8.0	3.0	45.5	1
8	100.0	0.0	8.0	0.0	8.8	0.0	6.0		0.0	12.3	2
9	78.7	7.9	6.7	4.6	1.8	8.2	0.8	9_9	0.0	9.6	2
-	· 64.0	18.7	8.1	5.8	2.4	0.8		0.0	0.0	28.0	3
11	54.8	17.1	12.3	9.9	4.6	1.1	6.2	0.0	8.0	28.7	2
12	98.7		0.0	0.0	6.0		0.2	0.0	8.8	27.7	2
13	99.5		0.0	0.0	0.0	9.0	0.0	0.0	0.0	13.2	2
14	99.9		0.0	0.0	0.0	0.0	0.0	0:0	0.0	12.1	2
15	99.0	1.0	0.0	0.0		0.0	0.8	0.0	8.8	10.8	2
16	98.0		0.1	9.0	0.0	0.0	0.0	0.0	0.0	13.7	1 2 2 3 2 2 2 2 2 2 3 1
17	79.7	7.3	5.8	4.4	9.9		0.0	0.0	0.0	13.7	1
18	81.5	11.0	5.8	1.7	2.2	9.5	0.0	8.8	0. <del>0</del>	26.4	ż
19	99.9	8.1	8.8		0.0	8.8	0.0	0.0	8.8	29.8	2 2 2 2 2 2 2 2 2 2
20	100.0	8.8	0.0	0.0	0.0	0.8	0.0	8.0	8.8	11.8	2
21	99.8	8.2	8.8	0.0	0.0	<b>8.8</b>			0.0	8.9	7
22	96.3	3.7		0.0	0.0	0.8	0.0	0.0	0.0	11.2	2
23	98.3	1.7	8.0	0.0	0.0	0_0	0.0	0.0	0.0	12.8	2
24	98.9	1.7	0.0	0.0	8.8	0.0	0.0	0.0	0.0	12.5	2
25	97.1		0.1	0.0	0.0	<b>0_8</b>	0.0	0.0	8.8		2
26	99.8	2.9	0.0	0.0	0.0	0.0	8.8	0.0	8.8	12.6	2
27	74.2	8.1	0.0	0.0	9.0	0.0	8.8	0.0	9.0	13.5	
28		17.4	6.1	1.8	8.5	8.8	0.8	0.0	0.0	21.9	4
28 29	26.4	15.1	10.7	12.2	15.3	12.3	5.4	2.2			4
	55.3	13.5	9.1	5.4	4.5	3.9	3.4	2.7	0.4	34.8	2 2 2 2 2
38	100.0	0.0		0.0	0.0	6.8	0.0	0.0	2.3	41.8	Z
31	99.8	1.8	8.8	0.8	0.0		6.8	6.6	0.0	16.7	2 3
All*	87.1	5.2	2.4	1_8	1.3	0.8	1.0	0.3	0.2	14.1 48.9	3

<sup>\*</sup> All data on this line are monthly averages of the daily values except for maximum gust and time period which are the maximum gust recorded during the month and the time period of that gust.





#### SAMPLING PROTOCOL AIR MONITORING PROGRAM GOLDEN QUEEN MINE PROJECT

Prepared for Envirocon, Inc. Missoula, MT

Prepared by
Air Sciences Inc.
Lakewood, CO

Project 58-07 October 1989

#### Table of Contents

LUINTRODUCTION	1
2.0 SITING OF THE MONITORING STATION	2
3.0 SYSTEM DESIGN AND SPECIFICATIONS	4
2.1 Calan Davisa Communication	
3.2 Data Acquisition System	
3.3 Wind Speed	
3.4 Wind Direction	6
3.5 Sigma Theta	6
3.6 Temperature	
3.7 Meteorological Tower	
4.0 INSTALLATION, OPERATION, MAINTENANCE AND CALIBRATION	
4.1 Routine Operations and Maintenance	7
4.2 Calibration Procedures	8
4.2.1 Wind Speed	8
4.2.2 Wind Direction	
4.2.3 Temperature	8
4.4 Standards Control Procedures	9
4.5 Emergency Repair Procedures	9
E O DATA DDO CECCING	10
5.1 Meteorological Data	10
E 2 Postonic Markon in Dick	11
6.0 DATA REPORTING	12

## List of Figures

I	PROJECT LOCATION	
2	SITE CHECK FORM	3
3	WIND DIRECTION CALIBRATION FORM	13
4	AALLAD DIRECTION CALIBRATION FORM	
5	TEMPERATURE CALIBRATION FORM  STORAGE MODULE TRANSMISSION TO THE PROPERTY OF T	15
6	STORAGE MODULE TRANSMISSION FORM	16
7	STORAGE MODULE RECEIPT FORM	17
		18

#### 1.0 INTRODUCTION

Dispersion meteorological data are to be collected at the Golden Queen Mine Project site for Golden Queen Mining Company (GQMC). The purpose of the monitoring is primarily to define dispersion meteorology and secondarily to measure climatological values for the site.

This document presents information on the site selection for the meteorological monitoring station, equipment specifications, calibration and quality control procedures, record keeping and reporting procedures. All figures are located at the end of this report.

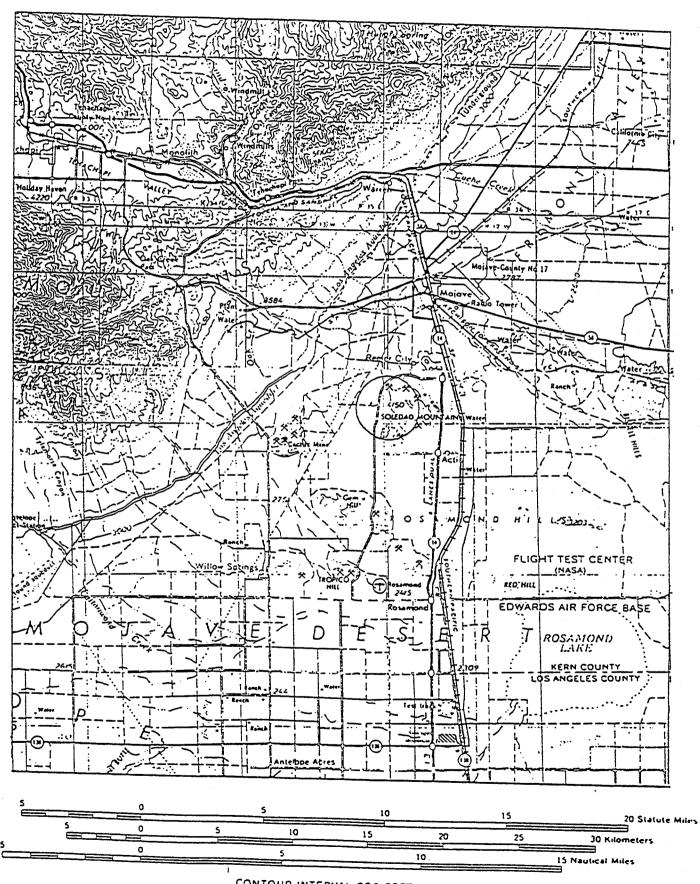
The parameters to be monitored are wind speed, wind direction, direction deviation (sigma theta) and temperature. There will be a 30-foot meteorological tower installed and operated near the project area. The parameters of wind speed, wind direction and direction deviation will be measured at 30 feet, and temperature will be measured at the two-meter level. All meteorological data will be recorded by a digital data acquisition system (DAS) equipped with a solid-state storage device for data recording.

Air Sciences will design and install the monitoring system. Site personnel trained by Air Sciences will be responsible for the routine changing of data recording modules and checks of the condition of the monitoring equipment. The meteorological data will be reported to GQMC on a quarterly schedule. The meteorological equipment will be calibrated on a semiannual schedule.

### 2.0 SITING OF THE MONITORING STATION

The Golden Queen Mine monitoring station will be located on the plains just west of Solidad Mountain in the Mojave Desert of Kern County, California. The site is approximately 12 miles northwest of Rosamond Lake and five miles south-southwest of the town of Mojave. The mine pit will be located on Solidad Mountain. Proposed heap leach pads or tailings piles and mill facilities are expected to be located west of the Mojave-Tropico Road. There are several locations where particulates will be emitted from the slopes of Solidad Mountain, from the pit which will be near the mountain top, down to the plain and the winds will be different at different elevations on the mountain. The station will be located on the plain and will define the wind patterns that will carry any pollutants toward residential areas. The station will be at an approximate elevation of 2,845° MSL about one quarter mile west of Mojave-Tropico Road and at UTM coordinates 3,871.5 km north and 389.2 km east (the southwest quarter of Section 1, T 10 N, R 13 W). Vegetation is sparse in this part of the Mojave Desert Basin and consists of sagebrush and widely scattered Joshua trees. The monitoring location is shown on Figure 1.

## FIGURE 1 GENERAL PROJECT LOCATION



CONTOUR INTERVAL 200 FEET WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

TRANSVERSE MERCATOR PROJECTION

#### 3.0 SYSTEM DESIGN AND SPECIFICATIONS

This section describes the meteorological instrumentation that will be used for the Golden Queen monitoring program. The meteorological instrumentation has been selected to be compatible with the EPA standard reference methods and will provide high quality, reliable data.

#### 3.1 Solar Power Supply System

Power to the meteorological instrumentation will be supplied by a Solarex Model MSX-10 solar power cell mounted on the meteorological tower. This system includes the solar power cell, a 6.5 amp-hour sealed gell-cell battery for power storage and a Bobier Model B-1 charging regulator. The system will provide, on a 24-hour basis, uninterrupted 12 Volt (nominal) output at 10 watts of power suitable for the current needs of the meteorological sensors and digital data acquisition system.

#### 3.2 Data Acquisition System

The Campbell Scientific, Inc. Model 21X data logger will be used as the data acquisition system (DAS) on this project. The Model 21X will sample the analog data every 10 seconds, compute 15 minute averages of sine and cosine of wind direction, scalar wind speed and temperature and store the averages in its own internal memory. The following parameters are to be recorded by the logger every 15 minutes:

<u>Parameter</u>	<u>Units</u>
Output Table Flag	-
Julian Day	days
Time (PST)	hours:minutes
Scalar Wind Speed	mph
Temperature	deg C
Sine of Wind Direction	-
Cosine of Wind Direction	•

The data logger will also calculate the average battery voltage, wind speed distribution and maximum instantaneous (10 second) wind speed value over each 8-hour period of the day. The following parameters are recorded by the logger every 8-hours:

Parameter	<u>Units</u>
Output Table Flag Julian Day Time (PST) Average Battery Voltage Wind Speed Histogram (1 mph - < 10 mph) Wind Speed Histogram (> = 10 mph - < 13 mph) Wind Speed Histogram (> = 13 mph - < 16 mph) Wind Speed Histogram (> = 16 mph - < 19 mph) Wind Speed Histogram (> = 19 mph - < 22 mph) Wind Speed Histogram (> = 22 mph - < 25 mph) Wind Speed Histogram (> = 25 mph - < 31 mph) Wind Speed Histogram (> = 28 mph - < 31 mph) Wind Speed Histogram (> = 31 mph) Maximum (instantaneous) Wind Speed	- Days Hours: Minutes VDC % % % % % % % % % % % % % M

A solid-state storage device will be interfaced to the logger. The data values will be written to the logger's internal memory and to the external device. The external storage device will be changed on a three-week schedule to allow for data transfer and processing. The logger has the capability to store approximately four weeks of data in its internal memory before data write-over occurs.

#### 3.3 Wind Speed

Wind speed will be measured continuously using a MetOne, Inc. Model 014 sensor interfaced directly to the DAS. The Model 014 is a three-cup anemometer which generates a square-wave frequency proportional to the wind speed by the use of a magnetic-read switch. Power for the sensor is supplied by the DAS. Starting threshold for the 014 sensor is less than 1.0 mph. The Model 014 has an accuracy of +/- 1.5 percent or 0.15 m/s, whichever is greater.

# 3.4 Wind Direction

Wind direction will be measured continuously using a MetOne, Inc Model 024 sensor interfaced directly to the DAS. The 024 sensor provides a 0-360 degree format through the use of a precision potentiometer powered by the DAS. The potentiometer outputs a varying voltage proportional to the wind direction. The sensor has an accuracy of +/- 5 degrees with a distance constant of less than three meters. Sensor alignment is to true north with a magnetic declination of 15.5 degrees east. The damping ratio of the sensor is 0.25. As with the 014 sensor, the starting threshold of the 024 sensor is less than 1.0 mph. The wind direction is recorded in an intermediate form as average sine and cosine of wind direction on a 15 minute basis.

# 3.5 Sigma Theta

The variation in the wind direction, or sigma theta, will be calculated on Air Sciences' engineering computer using the four 15-minute average sine and cosine values of wind direction. The instantaneous (10-second) wind direction sensor values in degrees are converted to sine and cosine values and averaged every 15 minutes by the DAS. These scalar values are later used to calculate sigma theta based on the Yamartino algorithm as recommended in the EPA-450/4-87-013 Meteorological Monitoring Guidelines, (equation 6.1.7). The Yamartino approximation is more precise at high deviation angles than the previously widely employed single pass small-angle approximation.

# 3.6 Temperature

The Model 107 temperature probe will be exposed at a height of 2 meters above ground level. The probe, a linear thermistor system, will be housed inside an aspirated radiation shield to protect the sensor from the influence of direct sunlight. Temperature is measured by the DAS as a varying resistance proportional to the ambient temperature. Accuracy of the temperature sensor is  $\pm$  0.2 degree with a linearization error of less than 0.1 °C over the temperature range of -33 to  $\pm$  48 °C.

# 3.7 Meteorological Tower

A Rohn 25G 30 foot Zone C meteorological tower will be installed at the monitoring location. The tower will be instrumented at the 10 meter level with the wind speed and direction sensors. The temperature sensor will be installed in a passive aspirated shield at the two-meter level. The tower will be grounded and lightning protection will be installed on all signal lines.

# 4.0 INSTALLATION, OPERATION, MAINTENANCE AND CALIBRATION

The meteorological monitoring systems will be installed by Air Sciences personnel. These personnel are experienced instrumentation technicians, trained in the operation of all of the monitoring system components. Routine operations such as data module changing will be carried out by a local resident. Calibrations will be performed by Air Sciences technicians.

# 4.1 Routine Operations and Maintenance

After the installation and initial calibration are complete, Air Sciences personnel will train local site personnel in the routine operation of the monitoring system.

Routine site checks of the meteorological monitoring system will be performed at least once per week. Results of the site check are documented on a standardized form, Figure 2. The person responsible for these duties will be the site technician. He will report directly to the Project Manager. Site check duties consists of the following activities:

- comparing instantaneous estimates of local weather conditions with the instantaneous data acquisition system measured values,
- changing and shipping data storage modules,
- maintaining checklist of operations,
- performing maintenance as specified,
- performing housekeeping of tower and grounds, and
- reporting problems to the Project Manager.

The site operator responsible for the above duties will be thoroughly trained and supervised prior to operation of the system. The site operator will have access to instrumentation and computer specialists at Air Sciences if their assistance should become necessary.

Every three weeks, the site operator will change the storage device at the meteorological station. The storage device, and all completed site documentation, will be forwarded to Air Sciences in Denver via certified or registered mail. Operational and maintenance activities will be documented on the site check form (see figure 2).

# 4.2 Calibration Procedures

# 4.2.1 Wind Speed

Calibrations of the wind speed system will be performed semiannually. Field calibrations consist of inputting known frequencies to the signal conditioning electronics, recording the outputs and comparing these to the calculated targets. The calibrations include an inspection of the cup and cable integrity and an evaluation of the sensor bearings by "experienced touch". Tolerance for the calibration is +/- 1.0 mph. Exceedance of the tolerance will result in identification and repair of the defective component and recalibration until the tolerance is obtained. Calibration data will be recorded on form Figure 3.

# 4.2.2 Wind Direction

Calibrations of the wind direction system will be performed semiannually. The calibration consists of orienting the sensor vane to a series of compass located targets. The targets, nominally a total of six, are selected to cover the operating range of the system. A Suunto precision magnetic compass, accurate to within one degree is used to survey the targets. The target readings are adjusted for magnetic declination of 15.5 degrees east. Checking the vane at six compass points shows possible discrepancies in orientation and linearity. Tolerance for the wind direction calibrations will be +/- 5 degrees for the calibration points. If this tolerance is not met, the sensor will be reoriented and recalibrated, or the potentiometer replaced. As with the wind speed calibration, the direction calibration will include a visual inspection of the vane, cable and bearings. Calibration data will be recorded on form Figure 4.

## 4.2.3 Temperature

The ambient temperature probe will be calibrated semiannually in place by comparison with a certified thermometer. The response of the probe is checked at a minimum of three distinct points. Tolerance for the temperature calibration is a +I-1 °C for all points. Exceedance of this tolerance will result in the reprogramming of the DAS slope and intercept so that the calculated linear regression of reference temperature versus probe temperature shows a correlation coefficient of 0.995 of greater. The calibration will include an inspection of the shield and cable integrity. Calibration data will be recorded on form Figure 5.

# 4.4 Standards Control Procedures

The thermal and electronic standards used on this project are traceable to NBS standards. The precision mercury in glass thermometer is provided with a certification. The electronic equipment used on the project is annually certified traceable to NBS standards.

# 4.5 Emergency Repair Procedures

Air Sciences maintains a stock of the most common failure items for the meteorological sensors, storage devices and data loggers. If a system should fail, the site operator may be able to identify the problem and repair the malfunction. If the repair is beyond the capabilities of the site operator, the Project Manager will dispatch the appropriate personnel to the field to make the necessary repairs.

# 5.0 DATA PROCESSING

Air Sciences will receive the meteorological data storage modules and site check forms every three weeks. These data and records are registered as they are received. A data receipt form or a transmission form, Figures 6 and 7, are filled out for all modules received from or transmitted to the site. Following registration, all received information or data are reviewed by the Project Manager or his assistant to identify any instrumentation problems or data corrections required.

# 5.1 Meteorological Data

Air Sciences will receive data from the digital data acquisition system every three weeks via certified or registered mail. Each storage device will be logged in with the date received, site and data period recorded on a form, Figure 7. After registration, the digital data will be transferred from the storage device to Air Sciences' engineering computer. The digital data is composed of 15-minute averaged data, 8-hour wind speed histograms and 8-hour maximum gust data. Data modules returned to the site will be logged on a Storage Module and Filter Transmission Form, Figure 6.

Processing of the meteorological data is performed as it is received. The raw data files containing the 15-minute averages recorded by the data logger will be processed into hourly averages. The processing programs employed for this project will calculate the following hourly averages:

Wind Speed Arithmetic average of the four 15-minute averages of scalar wind speed.

Wind Direction Unit vector average of the four 15-minute sine and cosine averages.

Sigma Theta Root mean square average of four 15-minute unit vector average sigma thetas calculated by Yamartino algorithm (EPA-450/4-87-013, eq. 6.1.7) from sine and cosine of wind direction.

Temperature Arithmetic average of the four 15-minute averages of temperature

The hourly sigma theta data are used to calculate an hourly stability class using the modified sigma theta method (EPA-450/4-87-013, section 6.4.4.3). A surface roughness length of 15 cm will be used.

The hourly average processing programs check for the correct number of 15-minute averages in the hour. Valid hourly averages will be comprised of a minimum of 30 minutes of consecutive valid data. The processing programs will check for wind speeds less than 0.5 or greater than 50 m/s, directions less than one or greater than 360 degrees and temperatures less than -45 °C or greater than 40 °C. Following the hourly averaging, the data are checked for unusual conditions such as extended periods of time (over three hours) with constant values. When the data quality assurance checking is complete, the data are ready to be summarized in data reports.

The raw data files containing the 8-hour wind speed histograms tabulated from instantaneous (10-second) data logger interrogations and the maximum wind gust in each 8-hour period from instantaneous data logger values will be separated from the raw 15-minute averaged data and stored in different files on Air Sciences' engineering computer.

The meteorological data files are written to magnetic tape on a twice weekly schedule to provide a back up file in the event of a computer hardware problem.

# 5.2 Battery Voltage Data

Every three weeks, the data storage modules are received by Air Sciences. Along with the meteorologic data contained on the storage module is an 8-hour average battery voltage. This voltage is the average voltage (Vdc) of the storage cell connected to the solar power system. This data is examined to determine existing or possible future problems with the power system which may affect the quality of the meteorologic data collected by the Data Acquisition System.

# 6.0 DATA REPORTING

Air Sciences will submit quarterly summary data reports to GQMC at the conclusion of each quarter of the monitoring program. This report will contain:

- all valid meteorological data collected during period in a standard SAROAD format,
- joint frequency distributions of wind speed and direction by stability class for the period,
- tabulation by 8-hour periods, the high wind frequency distribution and maximum gust,
- a calculation of the percentage of valid data collected, with an explanation of any instrument malfunction for each parameter, and
- a copy of any calibrations performed during the period.

# Figure 2 GOLDEN QUEEN MINE PROJECT PROJECT NO. 58-07 SITE CHECK FORM

Date:		Time:	Oper.	ator:	
Yes No **  1. The tower is intact and upright. Guy wires secure.  2. The anemometer cups and wind direction vane are turning freely.  3. The sensor crossarm is oriented properly.  4. The temperature shield is intact.  5. The data logger is reading the correct time and day.  6. The storage module is connected to the 21X Serial I/O port.  7. Each day, estimate the wind speed, wind direction and temperature. Document these readings below.  8. Record the corresponding logger readings below (*6 Mode) and include battery voltage reading.  9. The solar panel appears to be clean.  10. The meteorological system storage module has been changed according to the schedule (every third week).  11. Site check forms and storage modules have been sent to Air Sciences in via certified mail.			nclude		
:	Parameter	Estimated	Logger	Audit	
	Speed (mph)				-
	Direction *(deg)				-
	Temperature (°F/°C)				
	Battery Voltage (V)				
	Time (MST)				1
	Date				1
*Direction wind i	s from nusual Occurences c	А	Audit Date udit Initials		
		Signature	•		

# Figure 3 WIND SPEED CALIBRATION CAMPBELL SCIENTIFIC 21X LOGGER

Sensor Model No :		Client :	
Sensor Serial No :		Job No :	
Sensor Height :		Site :	
Logger Ser. No. :		_ Date :	
Name :		_	
		- 'mie	
I. SYSTEM INSPECTION			
•	PASS	FAIL	
Bearings			
Cable			
Cups		·	
•	-		
II. SYSTEM LINEARITY CHECK			
Input Frequency	Target	217 0	
(Hz)	()	21X Readi	_
1.	<u> </u>	_()_	•
2.	<del></del>		·
3.		· · · · · · · · · · · · · · · · · · ·	•
4.			<del></del>
5.		<del></del>	
6.	-		
7			<del>_</del> .
8.		<del></del>	
9.			
10.			
10.		-	
Target (mah) (liberate	700)		
Target (mph) = $(Hz \times 1)$			
Target (m/s) = $(Hz \times 0.$	/98) + 0.447		
Comments			
Comments:			
	·		
	Signatur	·e	

# Figure 4 WIND DIRECTION CALIBRATION CAMPBELL SCIENTIFIC 21X LOGGER

_	or Model No :_			Client	:	
	or Serial No :_			_ Job No	<u> </u>	
	or Height :_			Site	•	
	ger Ser. No.    :			Date		
Time	:			Name	:	,
۱. S۲	YSTEM INSPECT	ION			. "	
			PASS	FAIL		
	Веа	arings			_	
	Cat	ole			_	
	Var	ne			_	
II. S	YSTEM LINEARI	TY CHECK				
		<b>C</b>	<b>6</b>			
	Oriontation	Compass	Declination		Direction	21X Reading
1.	<u>Orientation</u> Vane	(degrees)	(degree	<u>s)</u> (c	legrees)	<u>(degrees)</u>
••	Tail				···	***************************************
2.	Vane			<del></del>		
	Tail					
3.	Vane				· · · · · · · · · · · · · · · · · · ·	
	Tail					
						<del></del>
4.	Vane	· · · · · · · · · · · · · · · · · · ·				
4.	Vane Tail					
	Tail Vane					
5.	Tail Vane Tail					
5.	Tail Vane Tail Vane					
5.	Tail Vane Tail					
5. 6.	Tail Vane Tail Vane Tail					
5.	Tail Vane Tail Vane Tail If site has an ea	st declination, ac			_	
5. 6.	Tail Vane Tail Vane Tail If site has an ea	st declination, ac			_	
*	Tail Vane Tail Vane Tail If site has an ea				_	

# Figure 5 TEMPERATURE CALIBRATION CAMPBELL SCIENTIFIC 21X LOGGER

Sensor Model No :	Client :
Sensor Serial No :	Job No :
Sensor Height :	Site :
Logger Ser. No. :	Date :
Name :	Time :
I. SYSTEM INSPECTION	
PASS	FAIL
Radiation Shield	
Cable	
II. SYSTEM LINEARITY CHECK	
	21X Reading
Measured Corrected	(degrees)
1.	
2.	
3.	
4. 5.	
6.	
7.	
8.	**************************************
9.	<del></del>
10.	-
Average	
Comments:	
Sign	ature

# Figure 6 GOLDEN QUEEN MINE PROJECT STORAGE MODULE TRANSMISSION FORM

JOB NO:	_	
CLIENT :	PAGE	OF

ltem	Via .	. `Sent Date	Ву
			·
			·
			·
			·

Figy 1
GOLDEN QUEEN wine PROJECT
STORAGE MODULE RECEIPT FORM

SITE

JOB NO.

CLIENT							PAGE	. OF
	Rec	Received	Pro	Processed	Data	Data Period		
	Date	By	Date	Ву	From	To	FIIE Name	Comments
						·		

# GOLDEN QUEEN MINING COMPANY SOLEDAD MOUNTAIN PROJECT ESTIMATED PM<sub>10</sub> AND AIR TOXICS EMISSIONS AND IMPACTS ASSESSMENT

December 1996 Revised: February 1997

# Prepared for:

Golden Queen Mining Company Post Office Box 878 Rosamond, California 93560-0878

# Prepared by:

WZI Inc. 4700 Stockdale Highway, Suite 120 Bakersfield, California 93309

# **TABLE OF CONTENTS**

	<u>га</u>	ge
EXEC	UTIVE SUMMARY	- 1
I.	INTRODUCTION	4
11.	FACILITY DESCRIPTION	5
III.	MODEL SELECTION	7
IV.	MODEL PARAMETERS  Meteorological Data  Emission Points  Emission Summary  Multipathway Analysis	10 11 11
V.	EMISSIONS CHARACTERIZATION	13
VI.	DISCUSSION Hazard Assessment Exposure Assessment Adjustments Mixing Height Applicable Degree of Accuracy Project Life Evaluation of Results PM <sub>10</sub> Impacts Class I Area Impact Analysis Carcinogens Acute Health Effects Chronic Health Effects Worker Exposure Output Results	14 15 16 16 16 17 17 18 19 20 21
VII.	ALTERNATIVES ASSESSMENT  No Action Alternative Increased Mining and Processing Rates Decreased Mining and Processing Rates Reduced Project Size	22 23 25
VIII.	REFERENCES	. 28

# **TABLES**

Table 1	Frequency Distribution of Wind Speed and Direction
Table 2	Emission Sources
Table 3	Emissions Quantities for PM <sub>10</sub> Analysis
Table 4	Emissions Quantities for TSP Analysis
Table 5	Receptor Risk by Pathway
Table 6	PM <sub>10</sub> Monitoring Results
Table 7	70-Year Lifetime Potential Cancer Risk by Pollutant for Peak Receptor -
	TSP
Table 8	70-Year Lifetime Potential Cancer Risk by Source for Peak Receptor -
	TSP
Table 9	Acute Hazard Index Peak Receptor
Table 10	Chronic Hazard Index Peak Receptor
Table 11	Alternatives Evaluation

# **EXHIBITS**

Exhibit 1	Regional Location Map - Proposed Project
Exhibit 2	Property Map
Exhibit 3	Proposed Project Source Locations
Exhibit 4	Location of Fence Line and Specific Receptor Locations
Exhibit 5	Location of Gridded Receptor Locations
Exhibit 6	Monitoring Station Location Map
Exhibit 7	10/89 -9/90 Wind Rose
Exhibit 8	9/90 - 8/91 Wind Rose
Exhibit 9	PM <sub>10</sub> Average Background Concentration
Exhibit 10	PM <sub>10</sub> Average Concentrations at Mojave
Exhibit 11	10 <sup>-6</sup> Isopleth for Proposed Project

# **APPENDICES**

Appendix A Modeling Protocol Approval

Appendix B ISC3 Input Data - PM<sub>10</sub> Analysis

Appendix C ISC3 Input Data - Toxic Analysis

Appendix D Laboratory Analyses

Appendix E Emissions Estimates

Appendix F 24-Hour PM<sub>10</sub> Concentration Model Summary

Appendix G ISC3 Output for Class 1 Analysis

Appendix H Visual Screening Results

Appendix I ACE2588 Output PM<sub>10</sub> Analysis

Appendix J ACE2588 Output TSP Analysis

## **TABLE OF ABBREVIATIONS**

AAQS Ambient Air Quality Standard

ADA Applicable Degree of Accuracy

AEL Acceptable Exposure Level

BLM Bureau of Land Management

BTEIR Biennial Toxic Emission Inventory Report

CAPCOA California Air Pollution Control Officers Association

CARB California Air Resources Board

CEQA California Environmental Quality Act

CUP Conditional Use Permit

EIR/EIS Environmental Impact Report/Environmental Impact Statement

EPA U.S. Environmental Protection Agency

HRA Health Risk Assessment

KCAPCD Kern County Air Pollution Control District

MECR Maximum Excess Cancer Risk

NEPA National Environmental Policy Act

OEHHA California State Office of Environmental Health Hazard Assessment

PAH Polycyclic Aromatic Hydrocarbon

PM<sub>10</sub> Particulate Matter Less than 10 Microns

POM Polycyclic Organic Matter

PSD Prevention of Significant Deterioration

SMARA Surface Mining and Reclamation Act

URF Unit Risk Factor

UTM Universal Transverse Mercator

## **EXECUTIVE SUMMARY**

Golden Queen Mining Company (Golden Queen) proposes to install an open pit mine and heap leach gold processing operation on Soledad Mountain, in the Southeast Desert portion of Kern County, near the town of Mojave (Exhibit 1). This mining and processing facility's principal products will be gold and silver. This document presents an estimation of air toxics emissions, an analysis of ambient air quality impacts, a visibility analysis for neighboring Class I areas, and an analysis of the associated health-related impacts of the proposed project. Golden Queen will apply for a Conditional Use Permit (CUP) with Kern County to allow a Surface Mining and Reclamation Plan in accordance with the Surface Mining Reclamation Act (SMARA) of 1975. Application for a CUP will require compliance with the California Environmental Quality Act (CEQA). Golden Queen will also apply to the Bureau of Land Management (BLM) for a Plan of Operations in compliance with the National Environmental Policy Act (NEPA).

The California Air Resources Board document "Risk Management Guidelines for New and Modified Sources of Toxic Air Pollutants" was used as the primary guidance for this assessment of air toxics and impacts. Golden Queen emission estimates use the methodologies of development previously utilized for quantification of air toxics from similar mining operations. Estimated particulate matter emissions were used in an air dispersion model to estimate project-associated impacts on ambient air quality. Estimated emissions of toxic air contaminants were used in an air dispersion model and post processor to calculate ambient air concentrations. These calculated concentrations were used to arrive at health conservative estimates of increased individual carcinogenic risk that might occur as a result of continuous exposure over a 15 year project lifetime. In a similar fashion, calculated concentrations of compounds with non-carcinogenic adverse health effects were used to calculate hazard indices (ratio of expected ambient air concentrations to acceptable exposure levels). The multi-pathway air toxic analysis includes determination of the effects of toxins entering the body through six pathways in addition to the inhalation pathway.

07330010.235

To assess whether the proposed project emissions of particulate matter with an aerodynamic diameter less than 10 microns (PM<sub>10</sub>) would cause or contribute to an exceedance of the national or California ambient air quality standards (NAAQS or CAAQS), results of a dispersion model were added to actual background concentrations derived from approximately one year of onsite PM<sub>10</sub> monitoring data. When added to the average background PM<sub>10</sub> concentration of 18.8  $\mu$ g/m³, the maximum estimated 24-hour average PM<sub>10</sub> concentration during normal operations is 45.62  $\mu$ g/m³. The NAAQS and CAAQS are 150  $\mu$ g/m³ and 50  $\mu$ g/m³, respectively. Therefore, the proposed project will not cause or contribute to an exceedance of the NAAQS or CAAQS.

Although this project is not subject to federal Prevention of Significant Deterioration (PSD) regulations, two analyses were performed to determine whether the proposed project would adversely impact the ambient air quality or visibility of any Class I wilderness areas located within 100 kilometers (km) of the project site. First, a dispersion model was run to ensure that the project would not cause an increase equal to or greater than the PSD Class I increment for PM<sub>10</sub> of 5  $\mu$ g/m³ (annual average). Results of that modeling indicate that the proposed project will only contribute about 0.21  $\mu$ g/m³ of PM<sub>10</sub> to the ambient air quality of a Class I area within 100 km of the project site. Secondly, a visibility analysis was conducted. The proposed project did not exceed the screening criteria, so visibility is not expected to degrade in any of the Class I areas within 100 km of the project.

Carcinogenic risk and hazard indices for the proposed project were calculated at certain specific locations near the property in addition to a grid of locations surrounding the property. The maximum estimated excess cancer risk (MECR) from project emissions at any point off the property is 4.989 x 10<sup>-6</sup>, located at UTM coordinates 391,445 E by 3,870,519 N. Estimated risk values are based on the ground level concentration of emissions at the specific locations. The health conservative nature of the assumptions inherent in the risk assessment procedures imply that the risk to actual residents living near the proposed facility will, in all likelihood, be less than the values indicated. Kern County Air Pollution Control District has established that a level of ten in one million excess cancer risk is considered significant.

The maximum estimated acute hazard index based on project emissions is 0.0137 located at UTM coordinates 390,904 E by 3,872,902 N. The maximum estimated chronic hazard index based on proposed project emissions is 0.0516 located at UTM coordinates 390,039 E by 3,871,272 N. The hazard index is a measure of the predicted concentration compared to the acceptable exposure level. Neither acute nor chronic exposure is significant because they are both below 1.0.

The methods of calculating carcinogenic risk, hazard indices and cancer burden are based on a "worst-plausible" situation and are health conservative in nature. They predict the upper limits of risk based upon the given emission rates. That is to say, the real risks are not likely to be higher than the predicted numbers and may well be significantly less. This health conservative approach to assessing risk is the one chosen by the United States Environmental Protection Agency (EPA), the California Office of Environmental Health Hazards Assessment (OEHHA), and the California Air Resources Board (CARB), and is used here for consistency with the concepts and basic assumptions utilized by the reviewing agencies.

This comparison of estimated toxic emissions assumes continuous exposure to the maximum concentration of emissions for the entire life of the project. This method ignores the reduction in exposure realized by periods of time spent away from the residence on vacation, at work, or indoors. Each phase of a risk assessment development contains some level of uncertainty as a result of bias, variability, or uncertain information. This air toxics and potential health impacts assessment is designed to estimate environmental impacts, human exposure, and the potential for adverse effects, which in many cases cannot be directly measured or have not yet occurred. When actual measurements cannot be made, conservative assumptions are required to complete the calculations.

07330010.235

#### I. INTRODUCTION

As part of the CUP and Plan of Operation applications for the proposed project, this document provides a calculation of PM<sub>10</sub> emissions and air toxics emissions, and presents the potential additional health risk resulting from the proposed project along the property boundary and at specific locations located near the Golden Queen property, in addition to a grid of locations extending out from the property. The specific locations were placed to represent existing residences or groups of residences.

A modeling protocol was submitted to the Kern County Air Pollution Control District (KCAPCD) on February 10, 1995. Subject to conditions contained in a letter from KCAPCD dated June 1, 1995 (Appendix A), the protocol was approved. These conditions have been incorporated into this analysis. Since the protocol was approved, the dispersion model ISC3 has been officially revised by EPA. The updated version of the model (ISC3) is used for the PM<sub>10</sub> analysis relative to the ambient air quality standard as well as providing input for the air toxics analysis.

The California Air Resources Board document "Risk Management Guidelines for New and Modified Sources of Toxic Air Pollutants" was used as the primary guidance for this assessment of air toxics and impacts assessment.

Approximately two years of pre-project onsite meteorological data was gathered and has been used in the dispersion modeling analysis and one year of PM<sub>10</sub> data was collected to determine background levels of fine particulate matter.

## II. FACILITY DESCRIPTION

Golden Queen proposes to operate an open pit gold mining operation near the town of Mojave, California. Operations at this site, like all mining operations, will have a finite production life. Golden Queen anticipates that there will be a number of open pit mining areas within the ultimate mining limit on the property. When the operation begins, drilling and blasting in the pits will occur. After the material is blasted, it is loaded into large off-road mining trucks and transported to either an overburden pile or the ore processing area. The ore will be crushed to the proper size, agglomerated, and then conveyed to the heap leach pad. The heap leach pad will have dilute cyanide solution circulating through the ore to dissolve precious metals and carry them to the collection area which, in this project, will be in the toe of the heap to minimize the exposed surface area and evaporative losses of the solution.

The project is located in a rural setting having a low population density within the surrounding five kilometers. The project area occupies most of the higher elevations of Soledad Mountain, with only a limited area of the mountain at or above the release point of the mine operations not under control of Golden Queen. Exhibit 1 is a regional location map showing the facility relative to surrounding communities and Exhibit 2 shows the property outline on a topographic map of Soledad Mountain.

A review of estimated emissions from the property indicates this will not be considered a major source of air contaminant emissions as defined under the Prevention of Significant Deterioration (PSD) guidelines.

Sources of emissions relating to open pit mining include fugitive dust emissions from drilling, blasting, truck loading and unloading, hauling, dozing, and wind erosion. In addition, combustion sources, a baghouse, and process equipment are emission points relating to the processing area. Exhibit 3 shows the location of all point and area sources for the proposed project.

For risk analysis and risk management of toxic compounds, it is necessary to evaluate the known sources of toxic air emissions and their potential health impacts including fugitive sources which are not currently quantified for purposes of determining criteria pollutant emissions from a facility. Golden Queen has a number of sources which are considered fugitive sources, including blasting, loading and unloading, transport, and wind erosion. All emission sources have been quantified using EPA AP-42 factors.

## III. MODEL SELECTION

The EPA approved model ISC3 has recently been approved for use in regulatory settings and replaces the older version ISC2. ISC3 has been used to quantify PM<sub>10</sub> concentrations at 367 of the receptor locations examined in the toxics analysis.

## ISC3

ISC3 is the latest update to the Industrial Source Complex model and it now provides handling of different terrain elevations as well as rectangular and rotated area sources. Simple, intermediate, and complex terrain elevations relative to the sources are all supported by ISC3. This model has been used to evaluate the effects of the 24-hour average PM<sub>10</sub> concentrations at 367 of the locations analyzed in the air toxics analysis. ISC3 input data for the PM<sub>10</sub> analysis is contained in Appendix B.

The estimated ambient air concentrations of PM<sub>10</sub> and chemicals emitted during operations at the facility were modeled at selected locations using the EPA approved model ISC3 coupled with site-specific sequential, short-term meteorological data. ISC3 is a steady-state Gaussian plume dispersion model designed to assess pollutant concentrations from a wide variety of sources including point, area, and volume sources. ISC3 is appropriate for industrial source complexes, rural or urban areas, flat or rolling terrain, transport distances less than 50 kilometers, and 1-hour to annual averaging times. ISC3 is also appropriate for receptors located below the top of the stack. The model options that have been used for this assessment follow the guidelines specified by EPA and CARB. Specific model setup options that have been used to model the proposed project emissions are indicated in the model input in Appendix C.

The facility is located on Soledad Mountain at elevations ranging from 2900 feet to 4000 feet. Parts of the mountain itself are not under control of Golden Queen and are located at or above some of the proposed sources of emissions. The topography around the facility is generally located below the facility in all directions beyond the mountain. The majority of significant

sources at the Golden Queen facility are fugitives which occur at ground level. The fugitive sources are treated as area or volume sources. These types of sources are basically terrain following (i.e. low stack heights with low stack velocities).

ISC3 output yields total concentrations and source contributions of multiple sources at designated coordinates, using the coordinates, stack parameters, and emission rates associated with each source, combined with the meteorology. For purposes of this evaluation, ISC3 has been utilized with unit emission rates (1.0 gm/sec for point sources and 1.0 gm/sec/m² for area sources). Concentrations from ISC3 are scaled by a post processing program which relates emission rates of toxic constituents from each individual source to a total concentration and a maximum expected excess risk.

ISC3 output is passed to a post-processor (ACE2588) which analyzes each source contribution for each toxic compound to calculate the potential excess cancer risk and the potential acute and chronic hazard indices from each toxic compound at each receptor location.

For the evaluation of project concentration levels, 20 specific receptor locations were set at selected residences near the property. In addition, a grid was utilized for analysis of the estimated excess risk including 70 locations on the property boundary spaced 250 meters apart, and a grid of 100 meter, 250 meter, and 500 meter spaced locations. The property boundary is irregular in shape with "windows" of uncontrolled land surrounded by land under Golden Queen's control. After the peak offsite location was determined using the 250 and 500 meter spaced grid, a grid of 100 meter (100M) spaced locations was established around the peak. The peak offsite location is on the property boundary, and is topographically high up on the mountain. Exhibit 4 shows fence line and specific receptor locations and Exhibit 5 shows the gridded receptor locations used in ISC3 and ACE2588 relative to the property.

## **ACE2588**

The post-processor (ACE2588) has been widely used in California for compliance with California Code of Regulations Title 17, 93300-93347. CCR17 requires facilities to quantify air toxic emissions and to prepare health risk assessments if certain thresholds are exceeded. Input to ACE2588 includes the concentrations calculated by the air dispersion model ISC3, air toxic emissions by source, unit risk factors of each toxic compound, and information relating to multiple pathway effects related to health risk.

The multi-pathway analysis is based on assumptions provided by the California Air Pollution Control Officers Association (CAPCOA) and listed in the Risk Assessment Guidelines dated January 1992. No modifications to these assumptions were made for this facility. The assumptions include a settling velocity of 2 cm/sec for controlled sources and 5 cm/sec for uncontrolled sources. Other assumptions are that only respirable particulate affects the inhalation pathway while concentrations of toxic compounds in total suspended particulate (TSP) are used for all other pathways.

Output from ACE2588 includes the concentration of each toxic compound in  $\mu g/m^3$  for both maximum hourly and annual concentration, receptor estimated total excess cancer risk, source and pollutant contributions to total cancer risk at specified receptor locations, receptor maximum acute exposure, and receptor maximum chronic exposure. In addition, graphical representations of the excess risk and relationship to the acute and chronic exposure levels are possible using the output from ACE2588.

#### IV. MODEL PARAMETERS

## Meteorological Data

Golden Queen contracted for the operation of a meteorological data gathering station on its property starting in 1989 with operations continuing for approximately two years. Exhibit 6 shows the location of the monitoring station in relationship to the Golden Queen property. Air Sciences, Inc. gathered and checked the data from this station. This meteorological data was collected in accordance with United States Environmental Protection Agency guidelines and has been verified for completeness. Upper air soundings from Winnemucca, Nevada were used with the surface data to create two annual datasets for model input. The first is for the period September 1, 1989 through August 31, 1990 (1990). Exhibit 7 is a windrose for 1990. The second is for the period August 20, 1990 through August 19, 1991 (1991). Exhibit 8 is a windrose for 1991. Table 1 shows the frequency distribution of the wind speed and wind direction for 1991 data.

The onsite meteorological data was processed using the EPA program PCRAMMET to include calculated urban and rural mixing heights based on Holzworth using the upper air data gathered from Winnemucca, Nevada. (The Winnemucca station is the nearest representative station with data processed and available to the public.) The calculation method results in some abnormally low morning mixing heights. The morning rural mixing heights were adjusted to be no lower than the lowest calculated value above 50 meters on any given day. Modification of the early morning mixing heights is reported to have been allowed by EPA on other occasions involving primarily fugitive dust sources.

Based on analysis using the peak receptor locations and the proposed sources, the 1991 meteorological data provides the highest estimated excess risk at the peak receptor location and is utilized in this evaluation.

## **Emission Points**

Emission sources have been divided into 46 sources for analysis of the air toxics. For the  $PM_{10}$  analysis, only 40 sources were used (the remaining six do not contribute to  $PM_{10}$  emissions. Table 2 shows how the sources were separated for use as modeling input. This was necessary for more accurate representation of area sources. Exhibit 3 shows source locations for the proposed project.

# **Emission Summary**

All toxic air contaminants from fugitive dust sources are quantified on the basis of their fraction in total suspended particulate (TSP). This is a new project and only limited analysis of onsite materials has been performed. Analysis of raw materials from nearby mines has been used to quantify the estimated concentrations of toxic contaminants in the various fugitive dust sources. The analysis results and a qualitative discussion of which sample may be more representative of the project are included in Appendix D.

PM<sub>10</sub> quantification is based primarily on AP-42 emission factors and is used for the ambient air quality analysis as well as the toxics analysis.

For risk assessment purposes, two sets of modeled quantities are required. Risk associated with the inhalation pathway is based on particulate matter less than 10 microns ( $PM_{10}$ ); all other pathways are analyzed based on the toxic fraction in TSP. These two analyses are combined to determine the estimated increase in maximum excess cancer risk from the facility. The AB2588 regulation specifies an applicable degree of accuracy (ADA) in pounds per year for each substance. The regulation does not require facilities to quantify emissions of substances if the calculated annual emissions of that substance are less than the ADA. The following substances are likely present but are estimated to be emitted at less than the ADA and are therefore not included in the analysis; acetaldehyde, acrolein, benzene, formaldehyde, naphthalene, PAH, propylene, selenium, toluene, and xylene.

Golden Queen has estimated that the activity level will be 6.0 million tons per year of ore and 24.0 million tons per year of overburden. The ACE2588 model has been run twice at this activity level, once with the PM<sub>10</sub> portion of emissions to determine excess cancer risk from inhalation pathways and once with TSP emissions to determine the excess cancer risk from all other pathways. Table 3 contains emissions estimates for the proposed project PM<sub>10</sub> emissions. Table 4 contains estimated emissions for the proposed project TSP case. Backup data and emissions estimates for the various emissions sources are contained in Appendix E.

# **Multipathway Analysis**

There are only six chemicals in the Golden Queen inventory which are identified in the CAPCOA guidelines as having multipathway effects. They are arsenic, beryllium, cadmium, lead, mercury and polycyclic aromatic hydrocarbons. The impact of these chemicals on the alternate pathways has been analyzed using the ACE2588 post-processing program. The alternate pathways are dermal, soil, water, plants, animal, and mother's milk. For the Golden Queen project, water, animal and mother's milk pathways do not contribute to the total risk, because, there are no open water sources which can be affected, there is no commercial grazing land, and the multipathway chemicals in this project are not currently considered to affect the mother's milk pathway.

# V. EMISSIONS CHARACTERIZATION

Estimates for the proposed project emissions have been based upon production plans provided by Golden Queen using emission factors approved by EPA, CARB, and KCAPCD and source tests. These methods can be conservative because of uncertainty surrounding site-specific input parameters.

The primary sources of toxic air contaminants are fugitive dust emissions resulting from the drilling, blasting, and materials handling of the ore and the overburden. Naturally contained in the fugitive dust are certain elements which are classified as toxic air contaminants. Golden Queen has analyzed samples of ore material and overburden from the property to determine toxic concentrations in the dust. These samples were analyzed by a third party laboratory to determine the quantity of each of the elements considered to be toxic air contaminants. In addition, samples from two nearby gold mining operations were also reviewed. Results of these samples were used in calculating the toxic fraction of  $PM_{10}$  estimated to be emitted into the air from each distinct operation. Raw material analyses are included in Appendix D. Emissions from the combustion sources were based on either relevant source tests or Ventura County Air Pollution Control District factors.

Other emission factors used are from EPA AP-42 or have been determined from actual source testing at similar facilities. Reference to the specific emission factors used is also contained in the backup calculations spreadsheets. Appendix E contains the calculation spreadsheets used in determining the quantity of proposed project emissions.

The unit risk factors which are the basis for carcinogenic risk calculations are based upon a 70-year exposure to the toxic chemicals. Golden Queen has not yet begun operating on the property except for exploratory analyses. The maximum estimated life of the project is approximately 15 years.

#### VI. DISCUSSION

## **Hazard Assessment**

OEHHA evaluates chemical substances for cancer health effects, for chronic, non-cancer health effects that may appear years after exposure, and for acute, non-cancer health effects that appear almost immediately after exposure. In some cases, a substance causes more than one type of health effect, and is regulated accordingly. As an example of one of these substances, lead is regulated as a carcinogen, as causing chronic, non-cancer health effects, and as causing acute, non-cancer health effects.

For purposes of this analysis, Golden Queen has determined that the following toxic air contaminants, as identified by CAPCOA, are being emitted, or could be emitted in the future, from the facility:

Acetaldehyde

Lead

Acrolein

Manganese

Arsenic

Mercury

Arsine

Naphthalene

Benzene

Nickel

Beryllium

PAHs

•

Selenium

Cadmium Copper

Toluene

Formaldehyde

Zinc

Hydrogen Cyanide

Contaminants resulting from mining operations include arsenic, beryllium, cadmium, copper, lead, manganese, mercury, nickel, selenium, and zinc.

Appendix E contains a listing of all regulated air toxics which are expected to be emitted and the emission source. The emission rates (lbs per year and lbs per hour) used for modeling each different production scenario are also included.

# **Exposure Assessment**

The multi-pathway air toxic analysis includes determination of the effects of toxins entering the body through six pathways in addition to the inhalation pathway. They are dermal, soil, water, plants, animal, and mother's milk. For the proposed project, the water and animal pathways are not considered because there are no open sources of water and no commercial cattle or poultry is raised nearby. In addition, the mother's milk pathway is not considered because it is affected only by toxins not present in the Golden Queen emissions. The conservative assumptions made by CARB are used in the analysis of each of the remaining pathways. The soil pathway is the ingestion of dust which is deposited on food eaten by the individual. Assumptions in the soil pathway analysis include a mixing depth of only 1 centimeter in the soil and 110 mg/day of soil consumption. The plant pathway analyzes the effect of toxins taken into the plants grown in the backyard of the residences. In reality, it is unlikely that the residents of arid desert communities such as those near the Golden Queen property are consuming two-thirds of a pound per day of homegrown fruits and vegetables.

Human exposure was estimated for a hypothetical individual residing continuously at the point of maximum impact. This approach assumes that the individual is always in the same location, exposed to the calculated ambient concentration, which would seldom, if ever, occur. Periods spent away from the residence due to vacation or work would result in lower exposures and lower estimated excess cancer risk to the individual.

Exposure was estimated using the procedures and assumptions presented in the CAPCOA AB2588 guidelines. In several ingestion pathways, the CAPCOA guidelines give a mechanism for incorporating site-specific information. For purposes of this analysis, the defaults included in the guidelines were used.

Acceptable exposure levels (AELs) are used as indicators of potential adverse, non-carcinogenic, health effects. They are generally set by agencies based on the most sensitive adverse health effect reported in literature. AELs are designed with a margin of safety to protect the most sensitive individuals. A hazard index of 1 represents the acceptable

exposure for an individual substance. Different substances may affect different target organs and exposure to two or more substances which may affect the same target organ are assumed to be additive. However, exposures above the acceptable exposure levels (i.e. a total hazard index greater than one) do not necessarily equate to significant health risks because of the margin of safety included in the AEL. AELs have been established for various substances for both maximum short-term (one-hour) exposure levels and maximum long-term exposure levels.

# **Adjustments**

Mixing Height - When the onsite meteorological data sets (1990 and 1991) were processed with Winnemucca upper air data to include mixing heights, they contained some early morning mixing heights which were extremely low. These low mixing heights resulted in area source emissions with low stacks and low exit velocities bouncing emissions between the ground and the mixing height for long distances. Early morning mixing heights below 50 meters were modified to set morning values to no lower than the lowest value above 50 meters as the lowest mixing height on any given day throughout the year.

Applicable Degree of Accuracy - After estimation of the total quantity of each toxic chemical emitted, a determination was made as to whether the total exceeded the applicable degree of accuracy (ADA) for reporting emissions for the particular chemical under AB2588. If the total was less than one-half the respective ADA, the chemical was not included in the impacts assessment. Estimated emissions of the following chemicals from the proposed project are below one-half the ADA; acetaldehyde, acrolein, benzene, formaldehyde, naphthalene, PAH, selenium, toluene, and xylenes.

<u>Project Life</u> - The unit risk factors (URF) assigned to each carcinogenic chemical are based in part on the assumption of a 70-year exposure to the chemical. The estimated excess risk associated with potential emissions from the Golden Queen facility should be based upon the facility life. Golden Queen has estimated that the Proposed Project will be completed in less than ten years.

This analysis assumes that the Proposed Project will be completed in fifteen years to allow for possible changes in operating rate or finding additional reserves. The estimated excess cancer risk from the facility based on project emissions has therefore been reduced using a factor of 15/70 to reflect potential excess risk based upon only fifteen years at the projected emissions rate. Table 5 shows the total estimated cancer risk at seventy (70) years and at fifteen (15) years for each of the evaluated locations. Golden Queen proposes to have a condition limiting operations to a maximum of fifteen (15) years on its permits. This will allow Golden Queen and reviewing agencies to review the operations at that time to determine if operations may continue. Factoring the estimated excess cancer risk was discussed with KCAPCD and verbally approved provided the estimated project life is realistic and conservative and is included as a permit condition.

### **Evaluation of Results**

PM<sub>10</sub> Impacts - Based on analysis of the emission sources, the majority of emissions are not considered quantifiable for purposes of determining Prevention of Significant Deterioration (PSD) status. Golden Queen is not required to obtain a PSD permit. However, in accordance with KCAPCD requirements (as outlined in the letter dated June 1, 1995, Appendix A), an analysis of the maximum 24-hour average PM<sub>10</sub> concentration has been prepared for comparison with the State and National Ambient Air Quality Standards.

Golden Queen obtained results from  $PM_{10}$  monitoring during 1990 and 1991 for the purposes of determining background levels of  $PM_{10}$ . Two samplers were set up to gather dual 24-hour samples approximately every three days. Exhibit 9 is a representation of the average of the 24-hour results over time. Table 6 shows the actual sampling results as well as the arithmetic and geometric mean for the year. The maximum 24-hour average concentration was 51  $\mu g/m^3$ . The annual geometric mean for  $PM_{10}$  was 18.8  $\mu g/m^3$ . One day exceeded the California Ambient Air Quality Standard (CAAQS) of 50  $\mu g/m^3$ . No days exceeded the federal NAAQS of 150  $\mu g/m^3$ . The background exceedance of the CAAQS occurred on May 30, 1991. It should be noted that regionally  $PM_{10}$  concentrations have been declining at the CARB station located in Mojave. Exhibit 10 shows the first and second high and the annual

geometric and arithmetic mean  $PM_{10}$  concentrations for the period 1988 through 1994. From 1990 to 1994, the annual geometric mean declined 34 percent from 24.4  $\mu$ g/m³ to 16.1  $\mu$ g/m³. An assessment of the potential  $PM_{10}$  impacts of the proposed project was prepared using ISC3 for multiple receptor locations including 20 certain nearby residential receptors, 70 locations along the proposed fenceline approximately 250 meters apart, and 277 receptors in 250 and 500 meter grid spacing.

The maximum estimated 24-hour average  $PM_{10}$  concentration from the proposed project is 26.82  $\mu g/m^3$ . When added to the annual average background concentration of 18.8  $\mu g/m^3$ , the total concentration is 45.62  $\mu g/m^3$ . This is less than the California AAQS of 50  $\mu g/m^3$ . Appendix F contains a summary of the results of the 24-hour  $PM_{10}$  concentration analysis.

Class I Area Impact Analysis - Telephone contact with EPA Region IX in San Francisco revealed that sources of fugitive emissions which are not covered by local permits and regulations are also not included in the total emissions used to classify a stationary source as a major source. Using this criteria, the Proposed Project is not considered a major source and is not subject to Prevention of Significant Deterioration (PSD) requirements.

Even though the Proposed Project is not considered a major source, an analysis of the effect of estimated PM<sub>10</sub> emissions on Class I Wilderness areas within 100 kilometers was performed. This analysis is required of major sources to determine whether or not a PSD source increases pollutant concentrations by 1  $\mu$ g/m³ or more (24-hour average) in a Class I area. The Class I areas within 100 kilometers of the Proposed Project are Dome Wilderness to the north, and San Gabriel Wilderness to the south. This analysis shows an estimated maximum increase in 24-hour average PM<sub>10</sub> concentration of only 0.12  $\mu$ g/m³ at Dome and 0.22  $\mu$ g/m³ at San Gabriel. Appendix G contains the ISC3 output for the Class 1 wilderness areas.

An analysis of the impact on visibility at the Class I areas was also performed using the visual effects screening model VISCREEN. Using the conservative assumption that all emissions of particulate matter from the project come from the same source, the maximum visual impacts

screening criteria are not exceeded. Appendix H contains the results of the visibility screening analysis.

The significance levels for increases in  $PM_{10}$  concentrations at the Class I areas are not exceeded and the visibility screening criteria are not exceeded, therefore, no significant impact is expected to occur at the nearest Class I areas.

Carcinogens - The highest estimated maximum risk observed offsite is  $4.989 \times 10^{-6}$  and is located at UTM coordinates 391,445 E by 3,870,519 N which is on the southern fence line. KCAPCD has established that a level of ten in one million excess cancer risk is considered significant. Therefore, the excess carcinogenic risk from this project is not considered significant. Only one of the twenty specific receptor locations has an excess risk greater than one in one million  $(1.152 \times 10^{-6})$  and all are located at least 1 1/2 miles from the point of maximum impact.

Table 5 shows the risk by pathway for the proposed project for all receptors. Supporting data for these calculations is contained in Appendix E. Appendix I contains the ACE2588 output from the proposed project  $PM_{10}$  case and Appendix J contains the ACE2588 output from the proposed project TSP case. All input and output files have also been provided on disk. Emissions of arsenic and beryllium are the primary cause of the excess cancer risk associated with the proposed project. Table 7 shows the breakdown of the cancer risk by pollutant from the ACE2588 output for the proposed project TSP case. 88.1 percent of the estimated excess risk at the point of maximum impact comes from exposure to arsenic compounds which are contained in the fugitive dust emissions relating to the normal activities of the facility. 7.02 percent of the estimated excess risk comes from exposure to beryllium. While the proportions of risk by pollutant will change at different locations, arsenic and beryllium will be the predominant pollutants at all locations.

Arsenic is reported in the EPA Toxic Substances Control Act Inventory. Arsenic and its compounds are on the Community Right-To-Know List. For purposes of the impacts assessment, all arsenic (all sources and all forms) is reported as elemental arsenic. Arsenic

is classified as a human carcinogen based on evidence from lung cancer mortality rates in populations exposed primarily through inhalation (smelter workers) and increased skin cancer incidence in several populations consuming drinking water high in arsenic concentration (Taiwan, Chile, Argentina and Mexico). No excess skin cancer incidence has been observed in United States residents consuming relatively high levels of arsenic in drinking water. Additionally, there has not been consistent demonstration of arsenic carcinogenicity in test animals for various chemical forms of arsenic administered by different routes to several species.

Unloading (sources 26 through 30) accounts for 46.62 percent of the estimated excess risk at the location of the maximum excess cancer risk. Loading, (sources 13 through 18) hauling, (sources 19 through 24) and wind erosion (sources 36 through 40) account for 24.06 percent, 9.77 percent, and 9.47 percent, respectively. Table 8 shows the estimated 70-year lifetime cancer risk by source for proposed project emissions at the peak location from the TSP analysis.

Exhibit 11 shows the isopleth of the one in one million excess cancer risk from the proposed project.

Acute Health Effects - Analysis of the proposed project shows that exposure to air toxics which may have acute effects on the central nervous system (the maximally exposed toxicological endpoint) have estimated hazard indices less than 1.0. Copper, nickel and hydrogen cyanide are the only substances emitted in sufficient amounts to quantify and the maximum total acute hazard index is 0.0137 from exposure to hydrogen cyanide. Exposure from the proposed project is less than the AEL defined for each of the listed chemicals individually. Table 9 shows the acute hazard index by pollutant and by toxicological endpoint for the peak receptor from the proposed project. Thus, no significant health effects are anticipated to occur from acute exposure to any air toxics.

<u>Chronic Health Effects</u> - Analysis of the proposed project shows that exposure to air toxics which may have chronic effects on the central nervous system (the maximally exposed

toxicological endpoint) have estimated hazard indices less than 1.0. Arsenic, hydrogen cyanide, lead, and manganese all may have chronic effects on the central nervous system. Exposure from the proposed project is less than the AEL defined for each of these chemicals individually and presents an estimated hazard index of only 0.05163 combined. Table 10 shows the chronic hazard index by pollutant and toxicological endpoint for the peak receptor from the proposed project.

All estimated exposures are individually and collectively less than the AEL. No significant health effects are anticipated to occur from chronic exposure to any air toxics.

<u>Worker Exposure</u> - Toxic air contaminants projected to be emitted from the site were evaluated to determine the exposure to workers on the site. 136 discrete receptors were placed throughout the project area. Presumably, no worker would be exposed to the highest peak concentration on the project site due to the mobility of the working areas. Under worst case conditions, the maximum excess cancer risk at the 136 receptors was used with exposure of 2000 hours per year and a 15 year project life to determine maximum exposure to onsite workers. The highest estimated maximum risk to a worker is 1.83 x 10<sup>-6</sup> (1.83 in one million).

Output Results - Model input and output is available on diskette and will be supplied to the Kern County Air Pollution Control District and will be available to others on request. Please contact Greg McNeish, WZI Inc., 4700 Stockdale Highway, Suite #120, Bakersfield, CA 93309.

NOTE: The intermediate file used for processing the toxics information is extremely large (~750 megabytes).

### VII. ALTERNATIVES ASSESSMENT

Impacts on air quality vary with the rate of mining and processing of ore from the project area. For example, increasing the processing rate will result in an increase in maximum 24-hour  $PM_{10}$  concentration compared to the Proposed Action. Discussion of the various alternatives presented and the impact on air quality including ambient air concentrations of  $PM_{10}$  and the incremental excess cancer risk are presented below.

#### **No Action Alternative**

### Air Quality

The project is located on a mountain in the Kern County portion of the southeast desert air basin. As such the weather conditions are hot and dry leading to potential for erosion emissions from existing disturbed surfaces. There are approximately 215 acres of existing disturbed areas relating to past underground mining operations including a large tailings pile on the northern flank of the mountain, which are subject to wind erosion emissions. The surface of the tailings pile consists of more finely textured soil than will be exposed at the heap leach pads or the overburden piles proposed for this project. The current sources of air pollution would continue to exist if the proposed project is not enacted.

Under the Proposed Action, previously disturbed areas located within the project area will be removed as potential sources of air pollution either through reclamation or elimination by mining activity. The tailings pile is located where heap leach pad #1 will be built and is proposed as base material for the heap. This tailings pile is a large emissions generator when the wind speed exceeds the threshold velocity. On the same basis used to calculate emissions from the proposed project, it is estimated that the disturbed acreage has annual emissions of 136,000 pounds of PM<sub>10</sub> per year. If the project is not developed these emissions may continue because there are no required reclamation plans for these past disturbances.

The net long term effect (from the end of the project and beyond) is that annual emissions from the project area would be decreased by 126,100 pounds of  $PM_{10}$  per year resulting in long term beneficial impact to the air basin. Thus the long term effect of the no action alternative is detrimental even though it may be considered Less Than Significant.

# Health Hazards/Public Safety

Under the no action alternative, the toxic air contaminants projected to be released from the proposed project will not be emitted. However, the toxic portions of PM<sub>10</sub> which are in the tailings pile will still be emitted. In addition, open mine shafts on the mountain will also remain so some risk to public health and safety which was not quantified, will remain. Thus, the long term effect of the no action alternative may be detrimental even though it may be considered Less Than Significant.

# Increased Mining and Processing Rates

# Air Quality

Under this scenario, mining and processing rates would increase by 20% resulting in higher  $PM_{10}$  emissions for a shorter time period than in the Proposed Action. A review of the  $PM_{10}$  emissions sources was made to determine which sources would increase and which would remain the same as in the Proposed Action. For calculation of the 24-hour  $PM_{10}$  concentration, the blasting and wind erosion sources will remain the same as in the Proposed Action. Blasting only occurs once per day but on more days than in the Proposed Action. Wind erosion is based on the surface area of exposed overburden piles which would be similar to the Proposed Action. Emissions from all other sources would increase by approximately 20% from the increased activity.

For the dispersion model prepared for the Proposed Action, the individual sources are evaluated for their contribution to the maximum impact. A sensitivity analysis was conducted by scaling the appropriate variable sources by 20% and keeping the unaffected sources

23

07330010.235

unchanged to estimate the impact of the increase in production rate on the maximum calculated  $PM_{10}$  concentration. The estimated 24-hour  $PM_{10}$  concentration resulting from the increased processing is a maximum of 50.13  $\mu$ g/m³. Table 11 shows expected changes from the higher processing rates.

The PM<sub>10</sub> emission calculations assume the use of Best Available Control Technology for all sources having BACT determinations including roads and equipment, similar to the Proposed Action. The increased rate alternative may be able to apply currently unknown controls or use other mitigation measures to limit the impact on PM<sub>10</sub> emissions resulting from the project to below the California 24-hour standard of 50  $\mu$ g/m³.

As part of the Proposed Action, meteorological and PM<sub>10</sub> monitoring will be established to show compliance with ambient air quality standards. It may be possible, through onsite data collection, to show that the dispersion modeling overestimates the maximum concentration, thus allowing an increased rate. The environmental impact to existing air quality of this alternative may be **Significant** but could be either avoided or mitigated prior to full implementation.

### Health Hazards/Public Safety

A sensitivity analysis was conducted on the incremental excess health risk from toxic air contaminants from the proposed action to evaluate any changes resulting from the increased mining and processing rate alternative. The increased mining and processing rate is not designed for a larger project, just a project completed in a shorter time period. The incremental health risk is based on the project life as well as the amount of emissions. For all sources except wind erosion, the total emissions from the project will not change in the accelerated rate scenario, thus the incremental risk from these sources will be the same as in the Proposed Action. Wind erosion emissions are based on the surface area of the overburden piles exposed for a certain time period. Since the increased processing rate alternative will have a 17% shorter life, wind erosion emissions and their contribution to the total risk will be reduced by approximately 17%. Wind erosion emissions represent

approximately 9.8% of the risk at the maximum exposed location. Reducing the project life by 17% will reduce the overall health risk from the project by about 1.7% to  $4.9 \times 10^{-6}$  from 5.0  $\times 10^{-6}$  for the Proposed Action. These results are essentially the same within the accuracy of the emissions estimates and the air dispersion model. Thus, the environmental impact to health hazards and public safety of this alternative is **Less Than Significant**.

# **Decreased Mining and Processing Rates**

# Air Quality

Under this scenario, mining and processing rates would decrease by 20% resulting in lower  $PM_{10}$  emissions for a longer time period than in the Proposed Action. A review of the  $PM_{10}$  emissions sources was made to determine which sources would decrease and which would remain the same as in the Proposed Action. For calculation of the 24-hour  $PM_{10}$  concentration, the blasting and wind erosion sources will remain the same as in the Proposed Action. Blasting only occurs once per day but on fewer days than in the Proposed Action. Wind erosion is based on the surface area of exposed overburden piles which would be similar to the Proposed Action. Emissions from all other sources would decrease by approximately 20% from the decreased activity.

For the dispersion model prepared for the Proposed Action, the individual sources are evaluated for their contribution to the maximum impact. A sensitivity analysis was conducted by scaling the appropriate variable sources by 20% and keeping the unaffected sources unchanged, to estimate the impact of the decrease in production rate on the maximum calculated PM<sub>10</sub> concentration. The estimated 24-hour PM<sub>10</sub> concentration resulting from the increased processing is a maximum of 41.12  $\mu$ g/m³. Table 11 shows expected changes from the lower processing rates. This is below the California 24-hour standard of 50  $\mu$ g/m³, and slightly less than the estimated PM<sub>10</sub> concentration of 45.62  $\mu$ g/m³ for the Proposed Action. Thus, the long term effect of the no action alternative is **Less Than Significant**.

# Health Hazards/Public Safety

A sensitivity analysis was also conducted on the incremental excess health risk from toxic air contaminants from the proposed action to evaluate any changes resulting from the decreased mining and processing rate alternative. The decreased mining and processing rate is not designed for a smaller project, just a project completed in a longer period of time. The incremental risk is based on the project life as well as the amount of emissions. For all sources except wind erosion, the total emissions from the project will not change in an decreased rate scenario, thus the incremental risk from these sources will be the same as in the Proposed Action. Wind erosion emissions are based on the surface area of the overburden piles exposed for a certain time period. Since the decreased processing rate alternative will have a 20% longer life, wind erosion emissions and their contribution to the total risk will be increased by approximately 20%. Wind erosion emissions represent approximately 9.8% of the risk at the maximum exposed location. Increasing the project life by 20% will increase the overall risk from the project by about 2% to 5.1  $\times$  10<sup>-6</sup> from 5.0  $\times$  10<sup>-6</sup> for the Proposed Action. These results are essentially the same within the accuracy of the emissions estimates and the air dispersion model. Thus, the environmental impact to health hazards and public safety of this alternative is Less Than Significant.

# **Reduced Project Size**

# Air Quality

Under this scenario, the total size of the project will be reduced by approximately 70%, but the daily and annual processing rates would be approximately the same as the Proposed Action. For calculation of the 24-hour  $PM_{10}$  concentration, all emission sources will remain the same as in the Proposed Action. Therefore no change is expected in the maximum estimated 24-hour  $PM_{10}$  concentration of 45.62  $\mu g/m^3$ . Thus, the long term effect of the no action alternative is **Less Than Significant**.

07330010.235 26

# Health Hazards/Public Safety

A sensitivity analysis was conducted on the incremental excess risk from the proposed action to evaluate any changes resulting from the reduced project size alternative. The incremental risk is based on the project life as well as the amount of emissions. A 70% reduction in project size and a 70% reduction in project life will result in a 70% reduction in maximum excess cancer risk compared to the Proposed Action. Therefore, the maximum expected excess cancer risk from this alternative is  $1.5 \times 10^{-6}$  compared to the risk of  $5.0 \times 10^{-6}$  from the Proposed Action. Thus, the environmental impact to health hazards and public safety of this alternative is **Less Than Significant**.

### VIII. REFERENCES

- CARB, 1992. Amendments to the "Hot Spots" Emissions Inventory Criteria and Guidelines Regulation, California Air Resources Board, March.
- CARB, 1993. Risk Management Guidelines for New and Modified Sources of Toxic Air Pollutants, California Air Resources Board, July.
- CAPCOA, 1992. CAPCOA Air Toxics "Hot Spots" Program Risk Assessment Guidelines, Prepared by the AB2588 Risk Assessment Committee of the California Air Pollution Control Officers Association (CAPCOA), January.
- U.S. Environmental Protection Agency, 1986. Guidelines on Air Quality Models. EPA-450/2-78-027R. U.S. EPA, Research Triangle Park, NC.
- U.S. Environmental Protection Agency, 1995. Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources. AP-42 Fifth Edition, U.S. EPA, Research Triangle Park, NC.

**TABLES** 

### TABLE 1

STATION NUMBER: 98765 Soledad Mountain Onsite Met YEAR 1991

#### FREQUENCY DISTRIBUTION (JAN-DEC)

#### WIND SPEED (METERS/SECOND)

DIRECTION *	< 1.5	< 2.6	< 3.8	< 5.0	> OR = 5.0	TOTAL
1	42 52 33 23 22 19 9	102 93 88 68 70 57 43 28 21 18 22 32 59 68 115 106 53 44 33 36 69 88 77 77	54 52 57 57 57 51 52 25 117 126 13 110 117 26 49 54 48 32 31 33 31 33 27 29 24 29 24 29	25 25 29 43 42 49	8 13 35 42 38 25 24 12 6 8 34 38 24 0	231 235 242 233 221 174 81 65 57 100 87 105 168 16 192 266 343 303 185 127 137 171 187 385 169 1098 861 227 197
2	52	93	52	25	13	235
3	33	88	57	29	35	242
2	23	68	5/	43	94	233
ž	22	/0	67	44	30	233
9	19	27	/1	49	43 24	174
,	y •	40 10	34	11	12	21
9	3	20	23	11 7 8	12	45
10	10	19	15	á	14	57
11	13	28	16	7	Ä	72
12	16	25	18	í	34	97
13	8 10 13 16 9	29	16	8	38	100
14	ģ	32	13	ĭ	24	79
īš		59	10	2	à	87
16	16	68	17	2 3 2 13 30 44	1	105
17	20	115	26	3	4 .	168
18	2	10	2	2	0	16
19	25	76	49	13	29	192
20	14	53	54	30	29 115 201 172 82 50 38 32 47 92 254 630 959 694	266
21	6	44	48	44	201	. 343
22	15	34	42	40	172	303
23	10	33	32	28	82	185
24	18	36	37	18	50	1.59
25	10	27	31	21	38	127
· 26	16	34	33	22	32	137
27	37	33	27	27	47	171
28	14	28	26	27	92	187
29	28	31	29	43	254	385
30	35	38	24	42	630	769
31	49	36	25	29	323	1078
32	39	60	29	37	136	904
10 112 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 31 33 34 33 36	16 16 20 2 25 14 6 15 10 18 10 18 10 14 28 35 49 35 49 39 52 42 38 52	97	26 41 45 40	40 28 18 21 22 27 27 43 42 29 39 23 13 19	136 43 18 9	200
34 35	4 <u>4</u>	90 77	44	10	18	107
35 35	30 52	77	7.0	19	70	197
30	34	"	40	¥3	<b>3</b> .	±37
TOTAL	840	1914	1248	820	3933	

TOTAL NUMBER OF OBSERVATIONS = 8760

TOTAL NUMBER OF CALMS = 5

\* NOTE - DIRECTION FROM WHICH THE WIND IS BLOWING 1STATION NUMBER: 98765 Soledad Mountain Onsite Met YEAR 1991

#### FREQUENCY DISTRIBUTION (JAN-DEC)

### WIND SPEED (METERS/SECOND)

DIRECTION *	< 1.5	< 2.6	< 3.8	< 5.0	> OR = 5.0	TOTAL
1	.004795	.011644	.006164	.002854	.000913	0.026370
2	.005936	.010616	.005936	.002854	.001484	0.026826
3	.003767	.010046	.006507	.003311	.003995	0.027626
4	.002626	.007763	.006507	.004909	.004795	0.026598
5	.002511	.007991	.006963	.004795	.004338	0.026598
6	.002169	.006507	.008105	.005594	.002854	0.025228
7	.001027	.004909	.005936	.005251	.002740	0.019863
8	.000571	.003196	.002854	.001256	.001370	0.009247
9	.000913	.002397	.001941	.000799	.001370	0.007420
10	.001142	.002055	.001712	.000913	.000685	0.006507
11	.001484	.003196	.001826	.000799	.000913	0.008219
12	.001826	.002854	.002055	.000457	.003881	0.011073
13	.001027	.003311	.001826	.000913	.004338	0.011416
14	.001027	.003653	.001484	.000114	.002740	0.009018
15	.001826	.006735	.001142	.000228	.000000	0.009932
16	.001826	.007763	.001941	.000342	.000114	0.011986
17	.002283	.013128	.002968	.000342	.000457	0.019178
18	.000228	.001142	.000228	.000228	.000000	0.001826
19	.002854	.008676	.005594	.001484	.003311	0.021918
20	.001598	.006050	.006164	003425	.013128	0.030365
21	.000685	.005023	.005479	.005023	.022945	0.039155
	.001712	.003881	.004795	.004566	.019635	0.034589
22 23	.001142	.003767	.003653	.003196	.009361	0.021119
24	.002055	.004110	.004224	.002055	.005708	0.018151
25	.001142	.003082	.003539	.002397	.004338	0.014498
26	.001826	.003881	.003767	.002511	.003653	0.015639
27	.004224	.003767	.003082	.003082	.005365	0.019521

# TABLE 1 (continued)

28	.001598	.003196	.002968	.003082	.010502	0.021347
29	.003196	.003539	.003311	.004909	.028995	0.043950
30	.003995	.004338	.002740	.004795	.071918	0.087785
31	.005594	.004110	.002854	.003311	.109475	0.125342
32	.004452	.006849	.003311	.004452	.079224	0.098288
33	.005936	.007877	.002968	.002626	.015525	0.034932
34	.004795	.010046	.004680	.001484	.004909	0.025913
35	.004338	.008790	.005137	.002169	.002055	0.022489
TOTAL	0.095890	.008790 0.218493	.004566 0.142466	.002169	0.448973	0.022489

PERCENTAGE OF CALMS = 0.057078

PERCENTAGE OF MISSING = 0.000000

\* NOTE - DIRECTION FROM WHICH THE WIND IS BLOWING INPUT SUMMARY

STATION NUMBER YEAR NUMBER OF RECORDS 98765 91 8760
STATION NUMBER: 98765 Soledad Mountain Onsite Met

#### WINDROSE

Direction	Frequency	Mean wind speed
n nne ne ene ese sse ssw ssw www wnw wnw	5.92 6.27 5.14 1.78 1.75 2.63 2.26 2.24 8.54 7.29 3.74 8.41 27.50 7.23	2.7 3.5 3.6 3.0 4.7 2.2 4.1 5.2 4.1 5.8 7.7 4.6
Total	99.94	

Average wind speed: 5.0 m/s

Percent calms:

TABLE 2
Golden Queen Mining Company
Emission Sources & PM10 Emissions

MIU en	nissions	Ore Production, MMTPY	6.0		Blasting Sq Ft.	77400			
		Waste Removal, MMTPY	24.0			-			
	Area	Source	g/s hr	g/s/m2	g/s yr	g/s/m2	lb/hr	lb/yr	lb/yr/source
. 1	100000	DRILLING_PIT1	3.017E-03	3.017E-08	2.535E-03	2.535E-08	0.02	176.28	2400
2	100000	DRILLING_PIT2	3.017E-03	3.017E-08	2.535E-03	2.535E-08	0.02	176.28	
3	385000	DRILLING_PIT3	1.162E-02	3.017E-08	9.762E-03	2.535E-08	0.09	678.66	
4	472500	DRILLING_PIT4	1.426E-02	3.017E-08	1.198E-02	2.535E-08	0.11	832.90	
5	152000	DRILLING_PIT5	4.586E-03	3.017E-08	3.854E-03	2.535E-08	0.04	267.94	
6	152000	DRILLING_PIT6	4.586E-03	3.017E-08	3.854E-03	2.535E-08	0.04	267.94	
7		BLASTING_PIT1	1.978E+01	1.978E+01	4.356E-02	4.356E-02	157.00	3028.28	41230
8		BLASTING_PIT2	1.978E+01	1.978E+01	4.356E-02	4.356E-02	0.00	3028.28	
9	1	BLASTING_PIT3	1.978E+01	1.978E+01	1.677E-01	1.677E-01	0.00	11658.87	
10	1	BLASTING_PIT4	1.978E+01	1.978E+01	2.058E-01	2.058E-01	0.00	14308.61	
11	1	BLASTING_PIT5	1.978E+01	1.978E+01	6.621 E-02	6.621 E-02	0.00	4602.98	
12	1	BLASTING_PIT6	1.978E+01	1.978E+01	6.621 E-02	6.621 E-02	0.00	4602.98	
13	100000	TRKLOAD_PIT1	4.914E-02	4.914E-07	3.737E-02	3.737E-07	0.39	2598.16	35374
14	100000	TRKLOAD_PIT2	4.914E-02	4.914E-07	3.737E-02	3.737E-07	0.39	2598.16	
15	385000	TRKLOAD_PIT3	1.892E-01	4.914E-07	1.439E-01	3.737E-07	1.50	10002.93	
16	472500	TRKLOAD_PIT4	2.322E-01	4.914E-07	1.766E-01	3.737E-07	1.84	12276.32	
17		TRKLOAD_PIT5	7.469E-02	4.914E-07	5.680E-02	3.737E-07	0.59	3949.21	
18		TRKLOAD_PIT6	7.469E-02	4.914E-07	5.680E-02	3.737E-07	0.59	3949.21	
19	25000	HAUL_1	2.919E-02	1.168E-06	1.688E-02	6.751 E-07	0.23	1173.34	15975
20		HAUL_2	2.919E-02	1.168E-06	1.688E-02	6.751 E-07	0.23	1173.34	
21		HAUL_3	1.124E-01	1.168E-06	6.498E-02	6.751 E-07	0.89	4517.35	
22		HAUL_4	1,379E-01	1.168E-06	7.974E-02	6.751E-07	1.09	5544.02	
23		HAUL_5	4.438E-02			6.751 E-07	0.35	1783.47	
24		HAUL_6	4.438E-02			6.751E-07	0.35	1783.47	
25		BAGHOUSE_1	1.805E-01	1.805E-01	1.374E-01	1.374E-01	1.43	9551.00	
26		TRU-WST_1	5.181E-02	2.403E-07	5.674E-02	2.631E-07	0.41	3944.84	28299
27		TRU-WST_2	1.041E-01	2.403E-07	1.140E-01	2.631E-07	0.83	7923.98	
28		TRU-WST 3	3.294E-02			2.631 E-07	0.26	2508.23	}
29		TRU-WST_4	6.172E-02			2.631E-07	0.49	4699.04	ļ
30		TRU-WST_5	1.211E-01		1.327E-01	2.631 E-07	0.96	9222.91	
31		DOZING_WASTE_1	3.316E-02			1.755E-08	0.26	263.15	188
32		DOZING_WASTE_2	6.660E-02			1.755E-08	0.53	528.59	}
33		DOZING_WASTE_3	2.108E-02			1.755E-08	0.17	167.32	
34		DOZING_WASTE_4	3.950E-02			1.755E-08	0.31	313.46	
35		DOZING_WASTE_5	7.752E-02			1.755E-08	0.62	615.24	
36		WIND EROSION1	1.651E-02			7.904E-08	0.13	1184.89	
37		5 WIND_EROSION2	3.316E-02				0.26	2380.08	
38		WIND_EROSION3	1.050E-02				0.08	753.38	
39		WIND_EROSION4	1.967E-02				0.16	1411.42	
40		5 WIND_EROSION5	3.860E-02				0.31	2770.2	
41		O ORE_PAD1	0.000E+00				0.00	0.00	
42		O ORE_PAD2	0.000E+00				0.00	0.00	
43		1 MERCURY_RETORT	0.000E+00				0.00	0.0	
> 44		1 ADSORPTION	0.000E+00				0.00	0.0	
45		1 FURNACE	0.000E+00				0.00	0.0	
45 46		1 DIESEL_TANK	0.000E+00				0.00	0.0	

1.207E+02 1.189E+02 2.060E+00 7.304E-01 1.730E+02 1.432E+05

# TABLE 3 **GOLDEN QUEEN MINING** PM10 BASED AIR TOXICS EMISSION Page 1 of 3

**ESTIMATED EMISSIONS** 

W/O ND & ADA CHEMICALS Drilling **Baghouses** Blasting Conveyor Truck Load Truck Unload-Ore Haulage Dozing - Ore Truck Unload-Waste Dozing - Waste Wind Erosion Ore Heap Mecury Retort Adsorption Furnace Diesel Tank TOTALS

lb/yr	lb/hr	lb/yr	ib/hr	lb/yr	lb/hr	lb/yr	lb/hr
Acetaldel	nyde	Acrole	ein	Arser	nic	Benze	ne
0	0	0	0	1.846E-01	2.779E-05	0	
0	0	0	0	4.166E-01	6.249E-05	0	
0	0	0	0	3.169E+00	6.849E-03	0	
0	0	0	0	2.455E-01	3.682E-05	0	
0	0	0	0	2.721E+00	2.316E-04	0	
0	0	0	01	0.000E+00	0.000E+00	O	
0	0	0	0	1.362E+00	2.689E-04	0	
0	0	0	0	0.000E+00	0.000E+00	a	•
0	0	0	0	2.412E+00	2.316E-04	0	
0	0	0	0	1.609E-01	1.609E-04	0	
0	0	<u> </u>	0	7.246E-01	8.014E-05	0	
0	0	0	0	O	0	0	
0	0	0	0	0	0	o	
0	0	0	0	O	0	0	
0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	0	0.000E+00	0.0008
0	0	0	0	0	0	0.000E+00	0.0008
0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.140E+01	7.949E-03	0.000E+00	0.0008

ESTIMATED **EMISSIONS** 

W/O ND & ADA **CHEMICALS** Drilling Baghouses Blasting Conveyor Truck Load Truck Unload-Ore

Haulage Dozing - Ore Truck Unload-Waste Dozing - Waste Wind Erosion Ore Heap Mecury Retort

Furnace
Diesel Tank
TOTALS

Adsorption

lb/yr	ib/hr	lb/yr	lb/hr	lb/yr	lb/hr	lb/yr	lb/hr
Berylli	um	Cadm	ium	Chromiu	m VI	Coppe	г
2.528E-02	1.676E-05	6.636E-03	1.002E-06	1.200E-03	1.630E-07	1.554E-02	2.331E-06
4.911E-01	7.366E-05	1.457E-02	2.185E-06	4.776E-03	7.163E-07	3.598E-02	5.396E-06
4.376E-01	8.072E-03	1.139E-01	2.394E-04	2.062E-02	7.850E-05	2.667E-01	5.914E-04
2.893E-01	4.340E-05	8.582E-03	1.287E-06	2.814E-03	4.221E-07	2.120E-02	3.180E-06
3.726E-01	2.730E-04	9.781E-02	8.098E-06	1.769E-02	2.655E-06	2.290E-01	2.000E-05
0.000E+00	2.000E-05						
4.992E-03	9.858E-07	4.912E-02	9.701E-06	7.988E-03	1.577E-06	1.142E-01	2.256E-05
0.000E+00							
8.843E-03	2.730E-04	8.702E-02	8.098E-06	1.415E-02	2.655E-06	2.023E-01	2.000E-05
5.899E-04	5.899E-07	5.805E-03	5.805E-06	9.439E-04	9.439E-07	1.350E-02	1.350E-05
2.656E-03	2.937E-07	2.614E-02	2.891E-06	4.250E-03	4.700E-07	6.078E-02	6.721E-06
0	0	Q	0	0	0	0	(
0	0	0	0	0	ol	o	. (
0	0	0	0	0	0	0	
0	O	3.632E-02	1.164E-04	3.440E-04	1.103E-06	0	(
0	0	0	0	o	0	0	
1.633E+00	8.754E-03	4.459E-01	3.949E-04	7.477E-02	8.921E-05	9.592E-01	7.051E-0

## TABLE 3 **GOLDEN QUEEN MINING** PM<sub>10</sub> BASED AIR TOXICS EMISSION Page 2 of 3

**ESTIMATED** 

**EMISSIONS** W/O ND & ADA CHEMICALS Drilling **Baghouses** Blasting Conveyor Truck Load Truck Unload-Ore Haulage Dozing - Ore Truck Unload-Waste Dozing - Waste Wind Erosion Ore Heap **Mecury Retort** Adsorption Furnace Diesel Tank

TOTALS

**ESTIMATED** 

lb/yr	ib/hr	lb/yr	lb/hr	lb/yr	ib/hr	lb/yr	lb/hr
Formaldel	yde	HCN	·	Lea	ıd .	Manga	nese
0	0	. 0	0	3.928E-02	9.693E-06	1.879E-01	2.553E-05
0	0	0	0	2.840E-01	4.260E-05	7.478E-01	1.122E-04
0	0	0	0	6.759E-01	4.668E-03	3.228E+00	1.229E-02
0	0	0	0	1.673E-01	2.510E-05	4.406E-01	6.609E-05
o	0	0	0	5.790E-01	1.579E-04	2.770E+00	4.158E-04
0	0	0	0	0.000E+00	0.000E+00	0.000E+00	0.000E+00
o	0	0	0	2.081E-01	4.109E-05	1.251E+00	2.470E-04
0	0	0	0	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0	0	0	0	3.686E-01	1.579E-04	2.216E+00	4.158E-04
0	0	0	0	2.459E-02	2.459E-05	1.478E-01	1.478E-04
0	0	0	0	1.107E-01	1.224E-05	6.656E-01	7.360E-05
0	0	2.173E+04	2.481E+00	0	0	0	(
0	0	0.000E+00	0.000E+00	0	0	0	
0	0	1.284E+02	9.000E-03	0	0	0	
0.000E+00	0.000E+00	0	0	0	0	0	
0	0	0	0	0	0	0	(
0.000E+00	0.000E+00	2.186E+04	2.490E+00	2.457E+00	5.139E-03	1.165E+01	1.380E-0

**EMISSIONS** W/O ND & ADA **CHEMICALS** Drilling Baghouses Blasting Conveyor Truck Load Truck Unload-Ore Haulage Dozing - Ore Truck Unload-Waste Dozing - Waste Wind Erosion Ore Heap **Mecury Retort** Adsorption

> Furnace Diesel Tank **TOTALS**

Г	lb/yr	lb/hr	lb/yr	lb/hr	lb/yr	ib/hr	lb/yr	lb/hr
	Merc	ury	Nici	(el	Naphth	nalene	PAI	is
	6.789E-03	1.060E-06	5.616E-03	8.476E-07	0	0	0	0
Γ	1.092E-02	1.638E-06	2.483E-02	3.725E-06	0	0	0	0
	1.165E-01	1.795E-04	9.650E-02	4.082E-04	0	0	0	0
	6.434E-03	9.651E-07	1.463E-02	2.195E-06	0	0	0	0
	1.001E-01	6.071E-06	8.278E-02	1.381E-05	0	0	0	0
Γ	0.000E+00	6.071E-06	0.000E+00	0.000E+00	0	0	0	0
Γ	5.192E-02	1.025E-05	3.634E-02	7.177E-06	0	0	0	0
	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	0	0	01
e [	9.197E-02	6.071E-06	6.438E-02	1.381E-05	0	0	0	0
Γ	6.135E-03	6.135E-06	4.295E-03	4.295E-06	0	0	0	0
Γ	2.763E-02	3.055E-06	1.934E-02	2.138E-06	0	0	0	0
	0	0	0	0	0	0	0	0
Γ	1.249E-02	5.620E-05	0	0	0	0	. 0	0
Γ	0	0	0	0	0	0	0	0
Γ	1.355E-04	4.344E-07	0	0	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Γ	0	0	0	0	0	0	0	0
_	4.310E-01	2.775E-04	3.487E-01	4.562E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

# TABLE 3 GOLDEN QUEEN MINING PM10 BASED AIR TOXICS EMISSION Page 3 of 3

ESTIMATED EMISSIONS

W/O ND & ADA CHEMICALS **Drilling Baghouses** Blasting Conveyor Truck Load Truck Unload-Ore Haulage Dozing - Ore Truck Unload-Waste Dozing - Waste Wind Erosion Ore Heap **Mecury Retort** Adsorption **Furnace** 

lb/yr	lb/hr	lb/yr	lb/hr	lb/yr	lb/hr	lb/yr	lb/hr
Propylene		Seleni	um	Toluer	e i	Xylene	s
0	0	0.000E+00	0.000E+00	0	0	ol	(
0	0	0.000E+00	0.000E+00	0	0	0	(
0	0	0.000E+00	0.000E+00	0	0	0	
0	0	0.000E+00	0.000E+00	0	0	ol	
0	0	0.000E+00	0.000E+00	0	01	ol	(
0	0	0.000E+00	0.000E+00	0	Ol	0	
0	0	0.000E+00	0.000E+00	0	0	ol	
0	0	0.000E+00	0.000E+00	0	ol	o	
0	0	0.000E+00	0.000E+00	ol	O	0	. '
0	0	0.000E+00	0.000E+00	0	0	a	
0	0	0.000E+00	0.000E+00	0	0	0	<del></del>
0	0	0	0	ol	0	0	
0	0	0	0	0	O	0	
0	0	0	0	0	0	O	
0.000E+00	0.000E+0						
0	0	0	0	0.000E+00	0.000E+00	0.000E+00	0.000E+0
0.000E+00	0.000E+0						

ESTIMATED EMISSIONS

Diesel Tank TOTALS

W/O ND & ADA CHEMICALS Drilling **Baghouses** Blasting Conveyor Truck Load Truck Unload-Ore Haulage Dazing - Ore Fruck Unload-Waste Dozing - Waste Wind Erosion Ore Heap **Mecury Retort** Adsorption Fumace Diesel Tank TOTALS

_		and the second s					
Γ	lb/yr	lb/hr	lb/yr	lb/hr			
L	Zir	nc	PM10				
	2.373E-02	3.562E-06	2.400E+03	3.260E-01			
	5.476E-02	8.214E-06	9.551E+03	1.433E+00			
L	4.073E-01	9.001E-04	4.123E+04	1.570E+02			
	3.226E-02	4.840E-06	5.627E+03	8.441E-01			
	3.497E-01	3.044E-05	3.537E+04	5.310E+00			
	0.000E+00	3.044E-05	0.000E+00	0.000E+00			
	1.745E-01	3.446E-05	1.598E+04	3.155E+00			
	0.000E+00	0.000E+00	0.000E+00	1.888E+00			
	3.092E-01	3.044E-05	2.830E+04	2.950E+00			
	2.062E-02	2.062E-05	1.888E+03	1.888E+00			
Γ	9.286E-02	1.027E-05	8.500E+03	9.400E-01			
Γ	0	0	0	0			
	0	0	0	0			
	0	0	0	0			
ſ	0	0	0	0			
Γ	0	O	0	0			
_	1.465E+00	1.073E-03	148844	176			

# TABLE 4 GOLDEN QUEEN MINING TSP BASED AIR TOXICS EMISSION Page 1 of 3

ESTIMATED EMISSIONS

EMISSICIAS
W/O ND & ADA
CHEMICALS
Drilling
Baghouses
Blasting
Conveyor
Truck Load
Truck Unload-Ore
Haulage
Dozing - Ore
Truck Unload-Waste
Dozing - Waste
Wind Erosion
Ore Heap
Mecury Retort
Adsorption
Furnace
Diesel Tank

**TOTALS** 

ib/yr	lb/hr	lb/yr	lb/hr	lb/yr	ib/hr	lb/yr	lb/hr
Acetalde	hyde	Acroi	ein	Arser	nic	Benze	ne
0	0	0	0	3.877E-01	5.836E-05	0	
0	0	0	0	8.709E-01	1.306E-04	0	
0	0	0	0	3.169E+00	6.849E-03	0	
0	0	0	0	6.137E-01	9.206E-05	0	
0	0	0	0	5.753E+00	4.895E-04	0	
0	0	0	0	0.000E+00	0.000E+00	0	
0	0	0	0	3.026E+00	5.976E-04	0	
0	0	0	0	0.000E+00	0.000E+00	0	
0	0	0	0	5.101E+00	4.895E-04	0	
0	0	0	0	9.585E-01	9.585E-04	0	
0	0	0	0	1.449E+00	1.611E-04	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0	0	0	0	0	0	0	
0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	0	0.000E+00	0.000E
0	0	0	0	0	0	0.000E+00	0.000E
0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.133E+01	9.826E-03	0.000E+00	0.000E

**ESTIMATED EMISSIONS** W/O ND & ADA CHEMICALS Drilling **Baghouses** Blasting Conveyor Truck Load Truck Unload-Ore Haulage Dozing - Ore Truck Unload-Waste Dozing - Waste Wind Erosion Ore Heap **Mecury Retort** Adsorption Furnace Diesel Tank TOTALS

Γ	ib/yr	lb/hr	lb/yr	lb/hr	lb/yr	lb/hr	lb/yr	lb/hr
	Berylli	1	Cadm	ium	Chromi	um VI	Сор	per
T	5.309E-02	3.520E-05	1.394E-02	2.105E-06	2.520E-03	3.423E-07	3.263E-02	4.895E-06
٦	1.027E+00	1.540E-04	3.045E-02	4.567E-06	9.983E-03	1.497E-06	7.520E-02	1.128E-05
Γ	4.376E-01	8.072E-03	1.139E-01	2.394E-04	2.062E-02	7.850E-05	2.667E-01	5.914E-04
ı	7.234E-01	1.085E-04	2.145E-02	3.218E-06	7.034E-03	1.055E-06	5.299E-02	7.949E-06
	7.878E-01	5.769E-04	2.068E-01	1.711E-05	3.740E-02	5.610E-06	4.841E-01	4.226E-05
-	0.000E+00	4.226E-05						
	1.109E-02	2.191E-06	1.092E-01	2.156E-05	1.775E-02	3.505E-06	2.538E-01	5.012E-05
	0.000E+00							
e	1.870E-02	5.769E-04	1.840E-01	1.711E-05	2.992E-02	5.610E-06	4.278E-01	4.226E-05
`	3.514E-03	3.514E-06	3.457E-02	3.457E-05	5.622E-03	5.622E-06	8.039E-02	8.039E-05
T	5.313E-03	5.906E-07	5.228E-02	5.812E-06	8.500E-03	9.450E-07	1.216E-01	1.351E-05
ľ	0	0	0	0	0	0	0	0
ı	0	0	0	0	0	0	0	0
T	0	o	0	0	0	0	0	0
f	0	0	3.632E-02	1.164E-04	3.440E-04	1.103E-06	0	0
f	0	0	0	0	. 0	0	0	0
_	3.067E+00	9.530E-03	8.029E-01	4.619E-04	1,397E-01	1.038E-04	1.795E+00	8.863E-04

# TABLE 4 GOLDEN QUEEN MINING TSP BASED AIR TOXICS EMISSION Page 2 of 3

ESTIMATED EMISSIONS

W/O ND & ADA CHEMICALS Orilling Baghouses Blasting Conveyor Truck Load Truck Unload-Ore Haulage Dozing - Ore Truck Unicad-Waste Dozing - Waste Wind Erosion Ore Heap **Mecury Retort** Adsorption Furnace Diesel Tank TOTALS

lb/yr	ib/hr	ib/yr	lb/hr	lb/yr	lb/hr	lb/yr	lb/hr
Formaldeh	yde	HCN		Lead	1	Mangar	1050
0	0	0	0	8.249E-02	2.036E-05	3.946E-01	5.360E-05
0	0	0	0	5.936E-01	8.904E-05	1.563E+00	2.345E-0
0	0	0	0	8.759E-01	4.668E-03	3.228E+00	1.229E-0
0	o j	0	0	4.183E-01	6.275E-05	1.102E+00	1.652E-0
0	0	0	0	1.224E+00	3.336E-04	5.856E+00	8.785E-0
0	0	0	0	0.000E+00	0.000E+00	0.000E+00	0.000E+0
0	0	0	0	4.624E-01	9.131E-05	2.780E+00	5.489E-0
0	0	0	0	0.000E+00	0.000E+00	0.000E+00	0.000E+0
0	0	0	0	7.793E-01	3.336E-04	4.685E+00	8.785E-0
0	0	0	0	1.464E-01	1.464E-04	8.804E-01	8.804E-0
0	0	0	0	2.214E-01	2.462E-05	1.331E+00	1.480E-0
0	이	2.173E+04	2.481E+00	0	0	0	
0	0	0.000E+00	0.000E+00	0	01	0	
0	0	1.284E+02	9.000E-03	0	0	0	
0.000E+00	0.000E+00	0	Ol	ol	ol	0	
0	0	0	0	0	0	0	
0.000E+00	0.000E+00	2.186E+04	2.490E+00	4.604E+00	5.770E-03	2.182E+01	1.608F-0

ESTIMATED EMISSIONS

W/O ND & ADA **CHEMICALS** Drilling **Baghouses** Blasting Conveyor Truck Load Truck Unload-Ore Haulage Dozing - Ore Fruck Unload-Waste Dozing - Waste Wind Erosion Ore Heap **Mecury Retort** Adsorption Furnace Diesel Tank

TOTALS

ib/yr	lb/hr	lb/yr	lb/hr	lb/yr	ib/hr	lb/yr	lb/hr
Merci	ury	Nick	el	Naphthai	ene	PAH	
1.426E-02	2.225E-06	1.179E-02	1.780E-06	0	0	o	0
2.283E-02	3.424E-06	5.191E-02	7.786E-06	. 01	0	0	0
1.165E-01	1.795E-04	9.650E-02	4.082E-04	0	0	ol	0
1.609E-02	2.413E-06	3.658E-02	5.487E-06	0	0	0	0
2.116E-01	1.283E-05	1.750E-01	2.917E-05	0	0	0	0
0.000E+00	1.283E-05	0.000E+00	0.000E+00	Ol	0	0	0
1.154E-01	2.278E-05	8.076E-02	1.595E-05	0	0	0	0
0.000E+00	0.000E+00	0.000E+00	0.000E+00	0	0	ol	0
1.945E-01	1.283E-05	1.361E-01	2.917E-05	0	0	a	0
3.654E-02	3.654E-05	2.558E-02	2.558E-05	0	ol	ol	0
5.525E-02	6.143E-06	3.868E-02	4.300E-06	0	ol	ol	0
0	ol	0	0	Ol	0	0	0
1.249E-02	5.620E-05	0	0	0	0	ol	0
0	0	ol	ol	0	0	O	0
1.355E-04	4.344E-07	0	0	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0	0	0	0	0	0	0	0
7.955E-01	3.481E-04	6.529E-01	5.274E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00

## TABLE 4 **GOLDEN QUEEN MINING** TSP BASED AIR TOXICS EMISSION Page 3 of 3

**ESTIMATED EMISSIONS** 

W/O ND & ADA CHEMICALS Drilling **Baghouses** Blasting Conveyor Truck Load Truck Unload-Ore Haulage Dozing - Ore Truck Unload-Waste Dozing - Waste Wind Erosion Ore Heap **Mecury Retort** Adsorption Furnace Diesel Tank TOTALS

lb/yr	ib/hr	!b/yr	lb/hr	lb/yr	lb/hr	lb/yr	lb/hr
Propy	lene	Selen	ium	Tolue	ne	Xylen	es
0	0	0.000E+00	0.000E+00	0	0	0	0
0	0	0.000E+00	0.000E+00	0	0	0	0
0	0	0.000E+00	0.000E+00	0	0	0	0
0	0	0.000E+00	0.000E+00	0	0	0	0
0	0	0.000E+00	0.000E+00	0	0	0	0
0	0	0.000E+00	0.000E+00	0	0	0	0
0	0	0.000E+00	0.000E+00	0	0	0	0
0	0	0.000E+00	0.000E+00	0	0	0	0
0	0	0.000E+00	0.000E+00	0	0	0	. 0
0	0	0.000E+00	0.000E+00	0	0	0	0
0	0	0.000E+00	0.000E+00	0	0	0	0
0	0	ol	0	0	0	0	0
0	o	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0.000E+00							
0	0	0	0	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00							

0

0

0

0

0

**EMISSIONS** W/O ND & ADA CHEMICALS Drilling Baghouses Blasting Conveyor Truck Load Truck Unload-Ore Haulage Dozing - Ore Truck Unload-Waste

Dozing - Waste

Wind Erosion

Ore Heap

Mecury Retort

Adsorption

Furnace

Diesel Tank

TOTALS

**ESTIMATED** 

lb/vr lb/hr lb/yr lb/hr PM10 Zinc 4.983E-02 7.479E-06 5.040E+03 6.846E-01 1.145E-01 2.995E+00 1.717E-05 1.997E+04 4.073E-01 9.001E-04 4.123E+04 1.570E+02 1.407E+04 8.066E-02 1.210E-05 2.110E+00 7.394E-01 7.479E+04 1.122E+01 6.433E-05 0.000E+00 6.433E-05 0.000E+00 0.000E+00 3.878E-01 7.659E-05 3.550E+04 7.010E+00 0.000E+00 0.000E+00 0.000E+00 1.124E+01 6.537E-01 5.983E+04 6.230E+00 6.433E-05 1.228E-01 1.228E-04 1.124E+04 1.124E+01 1.700E+04 1.890E+00 1.857E-01 2.065E-05 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2.742E+00 1.350E-03 278670 212

TABLE 5
Golden Queen Mining

									Mother's	70 Year	15 Year
Receptor	X	Y	Inhale	Dermai	Soil	Water	Plants	Animal	Milk	Sum	Sum
1	389400 392550	3868050	1.480E-07	1.939E-08	9.053E-07	0	3.745E-07	0	0	1.447E-06	3.101E-07
2 3	392600	3868000 3868000	2.205E-07	2.910E-08	1.359E-06	0	5.624E-07	0	0	2.171E-06	4.652E-07
4	390250	3868800	2.190E-07 2.852E-07	2.888E-08 3.751E-08	1.348E-06	0	5.581E-07	0	0	2.154E-06	4.616E-07
5	390300	3868750	2.878E-07	3.787E-08	1.751E-06 1.768E-06	0	7.248E-07	0	0	2.799E-06	5.998E-07
6	390300	3868500	2.615E-07	3.444E-08	1.608E-06	0	7.317E-07 6.653E-07	0	0	2.825E-06	6.054E-07
7	393500	3868200	2.308E-07	3.037E-08	1.418E-06	0	5.870E-07	0	0	2.569E-06 2.266E-06	5.505E-07 4.856E-07
8	393750	3868300	2.330E-07	3.072E-08	1.434E-06	ā	5.933E-07	o	0	2.291E-06	4.909E-07
9	393800	3868450	2.424E-07	3.201E-08	1.495E-06	ō	6.181E-07	ō	ō	2.388E-06	5.117E-07
10	389750	3870450	3.065E-07	4.005E-08	1.870E-06	0	7.740E-07	Ō	0	2.991E-06	6.409E-07
11	395050	3870600	1.250E-07	1.651E-08	7.707E-07	0	3.189E-07	0	0	1.231E-06	2.638E-07
12 13	392200 390800	3872600	5.438E-07	7.211E-08	3.367E-06	0	1.392E-06	0	0	5.375E-06	1.152E-06
14	390750	3873450 3873400	2.388E-07 2.408E-07	3.161E-08	1.476E-06	0	6.096E-07	0	. 0	2.356E-06	5.049E-07
15	390700	3873400	2.406E-07	3.187E-08 3.102E-08	1.488E-06 1.449E-06	0	6.146E-07	0	. 0	2.375E-06	5.089E-07
16	390650	3873200	2.664E-07	3.527E-08	1.647E-06	0	5.983E-07 6.802E-07	0	0	2.313E-06	4.956E-07
17	393500	3873700	1.385E-07	1.830E-08	8.543E-07	0	3.534E-07	0	0	2.629E-06 1.365E-06	5.634E-07 2.925E-07
18	392450	3873750	2.097E-07	2.776E-08	1.296E-06	o	5.358E-07	0	0	2.069E-06	4.434E-07
19	391950	3873950	2.094E-07	2.766E-08	1.292E-06	ō	5.337E-07	ō	ā	2.063E-06	4.421E-07
20	391900	3873400	2.934E-07	3.899E-08	1.821E-06	0	7.523E-07	ā	ā	2.906E-06	6.227E-07
21	389750	3871670	2.164E-07	2.820E-08	1.317E-06	0	5.441E-07	0	ō	2.106E-06	4.513E-07
22	389759	3871788	2.027E-07	2.638E-08	1.232E-06	0	5.087E-07	0	Q	1.970E-06	4.221E-07
23	389778	3871908	2.023E-07	2.633E-08	1.230E-06	0	5.077E-07	0	0	1.966E-06	4.213E-07
24 25	389803 389826	3872019	2.007E-07	2.619E-08	1.223E-06	0	5.050E-07	0	0	1.955E-06	4.189E-07
25 26	389928	3872073 3872271	2.018E-07	2.639E-08	1.232E-06	0	5.088E-07	0	0	1.969E-06	4.219E-07
27	390027	3872472	2.114E-07 2.154E-07	2.784E-08 2.834E-08	1.300E-06 1.323E-06	0	5.373E-07	0	0	2.077E-06	4.451E-07
28	390083	3872582	2.298E-07	3.021E-08	1.323E-06 1.411E-06	0	5.472E-07	0	0	2.114E-06	4.530E-07
29	390203	3872720	2.921E-07	3.858E-08	1.801E-06	_	5.834E-07 7.446E-07	0	0	2.254E-06 2.876E-06	4.830E-07 6.163E-07
30	390252	3872758	3.098E-07	4.103E-08	1.916E-06	_	7.917E-07	0	0	3.059E-06	6.555E-07
31	390352	3872832	3.246E-07	4.307E-08	2.012E-06	_	8.310E-07	ŏ	ā	3.211E-06	6.881E-07
32	390434	3872889	3.261 E-07	4.328E-08	2.022E-06	0	8.350E-07	Ō	o	3.226E-06	6.913E-07
33	390669	3872895	3.618E-07	4.813E-08	2.248E-06	0	9.282E-07	0	. 0	3.586E-06	7.684E-07
34	390904	3872902	3.999E-07	5.322E-08	2.485E-06	_	1.026E-06	0	0	3.964E-06	8.494E-07
35 36	391139 391374	3872908 3872915	4.263E-07	5.683E-08	2.654E-06	_	1.096E-06	0	0	4.233E-06	9.071E-07
37	391609	3872921	4.443E-07 4.451E-07	5.935E-08	2.772E-06		1.144E-06	0	0	4.420E-06	9.471E-07
38	391844	3872928	4.401E-07	5.952E-08 5.761E-08	2.780E-06 2.691E-06		1.148E-06	0	-	4.433E-06	9.499E-07
39	391844	3872735	5.269E-07	7.045E-08	3.290E-06		1.111E-06 1.359E-06	0	0	4.291E-06	9.195E-07
40	391845	3872543	6.682E-07	8.948E-08	4.179E-06	_	1.725E-06	-	0	5.246E-06 6.662E-06	1.124E-06 1.428E-06
41	391845	3872351	9.218E-07	1.224E-07	5.715E-06	_	2.358E-06	0	0	9.117E-06	1.954E-06
42	391846		1.408E-06	1.854E-07	8.662E-06	Ō	3.574E-06		_	1.383E-05	2.964E-06
43	392046			1.553E-07	7.251E-06	0	2.996E-06		-	1.159E-05	2.484E-06
44	392246					_	2.679E-06	0	0	1.035E-05	2.218E-06
45	392446					_			0	9.855E-06	2.112E-06
46 47	392647 392658		6.478E-07 9.587E-07	8.425E-08	3.932E-06		1.631E-06			6.295E-06	1.349E-06
48	392670	3871765								9.181E-06	
49	392682				7.419E-06 8.755E-06					1.190E-05	
50	392694			2.010F-07	9.380E-06	_			_	1.404E-05	
51	392887		8.359E-07	1.078E-07	5.032E-06				_	1.505E-05 8.062E-06	
52	393080	3871355	5.559E-07	7.222E-08	3.371E-06					5.396E-06	
53	393273	3871360	4.036E-07	5.276E-08	2.463E-06				_	3.939E-06	
54	393467	3871365	3.332E-07						-	3.213E-06	
55	393467				2.153E-06	0	8.911E-07		- 0	3.446E-06	
56 57	393467				2.337E-06	_				3.741E-06	8.016E-07
57 58	393467			5.280E-08		_			-	3.941E-06	
58 59	393252 393037					_			_		
59 60	392822					-					
61	392607				4.630E-06 5.563E-06				_		
62	392392				6.551E-06				_		
63	392178										
64	392178	3870521		1.507E-07							
65	392010	3870521			8.244E-06						

										Mother's	70 Year	15 Year
	Receptor	X	Y	Inhale	Dermal	Soil	Water	Plants	Animal	Milk	Sum	Sum
ì.	66		3870521	1.675E-06	2.176E-07	1.016E-05	0	4.204E-06	0	0	1.626E-05	3.484E-06
7	67	391643	3870520	2.262E-06	2.918E-07	1.362E-05	0	5.644E-06	0	0.	2.182E-05	4.676E-06
	68	391445	3870519	2.415E-06	3.113E-07	1.453E-05	0	6.025E-06	. 0	0	2.328E-05	4.989E-06
	69	391247	3870518	2.418E-06	3.111E-07	1.452E-05	0	6.019E-06	0	0	2.327E-05	4.986E-06
	70 71	391049	3870518	2.363E-06	3.033E-07	1.416E-05	0	5.869E-06	0	0	2.270E-05	4.864E-06
	71	391044	3870310	1.541E-06	1.987E-07	9.278E-06	0	3.843E-06	0	0	1.486E-05	3.184E-06
	72	391040	3870103	1.130E-06	1.463E-07	6.829E-06	0	2.826E-06	0	0	1.093E-05	2.342E-06
	73	391036	3869895	8.526E-07	1.113E-07	5.198E-06	0	2.152E-06	0	0	8.314E-06	1.782E-06
	74	391032	3869688	7.184E-07	9.301E-08	4.343E-06	0	1.796E-06	0	0	6.950E-06	1.489E-06
	75 70	390827	3869681	6.574E-07	8.539E-08	3.987E-06	0	1.650E-06	0	0	6.380E-06	1.367E-06
	76 <del></del>	390623	3869674	5.855E-07	7.657E-08	3.575E-06	0	1.480E-06	0	. 0	5.717E-06	1.225E-06
	77	390419	3869667	5.057E-07	6.604E-08	3.083E-06	0	1.277E-06	0	0	4.932E-06	1.057E-06
	78	390215	3869661	4.403E-07	5.668E-08	2.647E-06	0	1.095E-06	0	0	4.239E-06	9.084E-07
	79 30	390214	3869865	5.099E-07	6.518E-08	3.043E-06	0	1.258E-06	0	0	4.876E-06	1.045E-06
	80	390213	3870070	5.525E-07	7.169E-08	3.347E-06	0	1.387E-06	0	0	5.358E-06	1.148E-06
	81 82	390212	3870275	6.444E-07	8.355E-08	3.900E-06	0	1.617E-06	0	0	6.245E-06	1.338E-06
	82 83	390212	3870480	7.537E-07	9.770E-08	4.560E-06	0	1.891E-06	0	0	7.302E-06	1.565E-06
	83 84	390211 390210	3870677	8.289E-07	1.074E-07	5.012E-06	0	2.079E-06	0	0	8.027E-06	1.720E-06
	85	390209	3870875 3871072	8.987E-07	1.163E-07	5.429E-06	0	2.252E-06	0	0	8.696E-06	1.863E-06
	86	390209		9.562E-07	1.235E-07	5.765E-06	0	2.391E-06	0	0	9.236E-06	1.979E-06
	87		3871270	9.287E-07	1.200E-07	5.600E-06	0	2.323E-06	0	0	8.972E-06	1.923E-06
	88	390039 389869	3871272	4.943E-07	6.460E-08	3.016E-06	0	1.249E-06	0	0	4.824E-06	1.034E-06
			3871274	3.314E-07	4.335E-08	2.024E-06	0	8.372E-07	0	0	3.236E-06	6.934E-07
	89 90	389700 389725	3871276	2.424E-07	3.166E-08	1.479E-06	0	6.113E-07	0	0	2.364E-06	5.066E-07
	91	391600	3871473 3870100	2.282E-07	2.978E-08	1.391E-06	0	5.748E-07	0	0	2.224E-06	4.766E-07
	92	391700		1.072E-06	1.406E-07	6.564E-06	0	2.719E-06	0	0	1.050E-05	2.250E-06
	92 93	391800	3870100	1.039E-06	1.363E-07	6.363E-06	0	2.636E-06	0	0	1.017E-05	2.179E-06
			3870100	1.000E-06	1.313E-07	6.132E-06	0	2.540E-06	_	. 0	9.803E-06	2.101E-06
	94 95	391900	3870100	9.608E-07	1.262E-07	5.890E-06	0	2.439E-06		0	9.416E-06	2.018E-06
		392000	3870100	9.218E-07	1.211E-07	5.654E-06	0	2.341E-06		0	9.038E-06	1.937E-06
ı.	96 07	392100	3870100	8.856E-07	1.164E-07	5.437E-06	0	2.251E-06		0	8.690E-06	1.862E-06
•	97 98	392200 392300	3870100	8.532E-07	1.121E-07	5.234E-06	0	2.166E-06		. 0	8.365E-06	1.793E-06
	99	392400	3870100	8.020E-07	1.057E-07	4.935E-06	0			_	7.885E-06	1.690E-06
	100	392500	3870100 3870100	7.640E-07	1.003E-07	4.684E-06	0	1.938E-06			7.486E-06	1.604E-06
	101	392600		7.163E-07	9.411E-08	4.394E-06					7.021E-06	1.505E-06
	102	392700	3870100 3870100	6.813E-07	8.903E-08	4.157E-06				-	6.645E-06	1.424E-06
	103	391600	3870200	6.541E-07 1.224E-06	8.480E-08 1.604E-07	3.960E-06		1.636E-06			6.335E-06	1.358E-06
	104	391700	3870200	1.224E-06 1.177E-06	1.543E-07	7.489E-06						2.567E-06
	105	391800	3870200	1.177E-06	1.545E-07 1.471E-07	7.203E-06 6.865E-06			-			2.469E-06
	106	391900	3870200	1.121E-06	1.47 1E-07 1.400E-07	6.535E-06					1.098E-05 1.045E-05	2.353E-06
	107	392000	3870200	_						_		2.239E-06
	108	392100	3870200		1.335E-07 1.271E-07							2.134E-06
	109	392200	3870200									2.033E-06
	110	392300		9.183E-07	1.206E-07 1.132E-07							1.929E-06
	111	392400		8.060E-07								1.810E-06
	112	392500			9.893E-08							1.690E-06
	113	392600					_					1.583E-06
	114	392700			8.772E-08							
	115	391600			1.869E-07							1.404E-06 2.989E-06
	116	391700										
	117	391800			1.664E-07							2.664E-06
	118	391900			1.565E-07							
	119	392000										
	120	392100										
	121	392200		9.806E-07								
	122	392300			1.267E-07							1.918E-06
	123	392400			1.199E-07 1.115E-07			2.151E-0				
	124	392500			1.054E-07							
	125	392600										
	125	392700			9.789E-08			1.888E-0			7.313E-06	
ŀ	126				9.098E-08			1.755E-0			0 6.797E-06	
•	127	391600 391700			2.239E-07			0 4.332E-0 0 4.053E-0		-	1.672E-05	
	129	391800			2.096E-07 1.913E-07			0 4.053E-0 0 3.699E-0			0 1.565E-05 0 1.429E-05	
	130	391900			1.913E-07 1.783E-07			0 3.655E-0 0 3.444E-0			0 1.429E-05 0 1.332E-05	
	130	331300	, 50/0400	. 1.3/UE-UC	: 1./OSE-U/	0.3∠3€-0	ا ن	U 3.444E-U	J	•	J 1.33∠E-05	2.854E-06

									Mother's	70 Year	15 Year
Receptor	X	Υ	Inhale	Dermai	Soil	Water	Plants	Animal	Milk	Sum	Sum
131	392000	3870400	1.258E-06	1.637E-07	7.643E-06	0	3.160E-06	0	0	1.222E-05	2.619E-06
132	392100	3870400	1.155E-06	1.503E-07	7.021E-06	0	2.902E-06	0	0	1.123E-05	2.406E-06
133	392200	3870400	1.044E-06	1.367E-07	6.385E-06	0	2.640E-06	0	0	1.021E-05	2.188E-06
134 135	392300 392400	3870400 3870400	9.812E-07	1.278E-07	5.966E-06	0	2.465E-06	0	0	9.540E-06	2.044E-06
136	392500	3870400	9.137E-07 8.518E-07	1.187E-07 1.102E-07	5.542E-06	0	2.290E-06	0	0	8.864E-06	1.899E-06
137	392600	3870400	7.899E-07	1.102E-07 1.022E-07	5.146E-06 4.775E-06	0	2.126E-06	0	0	8.234E-06	1.764E-06
138	392700	3870400	7.338E-07	9.493E-08	4.775E-06 4.433E-06	0	1.972E-06	0	0	7.639E-06	1.637E-06
139	391600	3870500	2.194E-06	2.835E-07	1.324E-05	0	1.831E-06 5.486E-06	0	0	7.093E-06 2.120E-05	1.520E-06 4.543E-06
140	391700	3870500	2.023E-06	2.617E-07	1.222E-05	Ö	5.061E-06	0	. 0	1.957E-05	4.543E-06 4.194E-06
141	391800	3870500	1.745E-06	2.265E-07	1.057E-05	ō	4.378E-06	Ö	0	1.692E-05	3.626E-06
142	391900	3870500	1.514E-06	1.968E-07	9.187E-06	· o	3.800E-06	ő	a	1.470E-05	3.150E-06
143	392000	3870500	1.353E-06	1.760E-07	8.218E-06	Ō	3.398E-06	ō	ō	1.314E-05	2.816E-06
144	392100	3870500	1.224E-06	1.596E-07	7.454E-06	0	3.081 E-06	0	0	1.192E-05	2.554E-06
145	392200	3870500	1.119E-06	1.459E-07	6.813E-06	0	2.815E-06	. 0	0	1.089E-05	2.334E-06
146	392300	3870500	1.036E-06	1.347E-07	6.289E-06	0	2.598E-06	٥	0	1.006E-05	2.156E-06
147	392400	3870500	9.611E-07	1.246E-07	5.817E-06	0	2.403E-06	0	0	9.306E-06	1.994E-06
148 149	392500 392600	3870500	8.918E-07	1.153E-07	5.386E-06	0	2.226E-06	0	Ō	8.619E-06	1.847E-06
150	392700	3870500 3870500	8.297E-07 7.688E-07	1.071E-07	5.001E-06	0	2.066E-06	0	0	8.004E-06	1.715E-06
151	392200	3870600	1.183E-06	9.922E-08 1.540E-07	4.634E-06 7.191E-06	0	1.914E-06	0	0	7.416E-06	1.589E-06
152	392300	3870600	1.097E-06	1.422E-07	6.641E-06	0	2.971E-06 2.744E-06	0	0	1.150E-05	2.464E-06
153	392400	3870600	1.021E-06	1.318E-07	6.154E-06	0	2.543E-06	0	0	1.062E-05 9.850E-06	2.276E-06 2.111E-06
154	392500	3870600	9.371E-07	1.216E-07	5.679E-06	a	2.347E-06	0	0	9.085E-06	1.947E-06
155	392600	3870600	8.851E-07	1.136E-07	5.307E-06	_	2.193E-06	0	0	8.499E-06	1.821E-06
156	392700	3870600	8.114E-07	1.048E-07	4.892E-06	-	2.022E-06	o	. 0	7.830E-06	1.678E-06
157	391000	3869500	6.163E-07	7.971E-08	3.723E-06		1.538E-06	ō		5.957E-06	1.277E-06
158	391250	3869500	6.298E-07	8.168E-08	3.814E-06	0	1.577E-06	0		6.102E-06	1.308E-06
159	391500	3869500	6.024E-07	7.927E-08	3.701E-06	. 0	1.532E-06	0	0	5.915E-06	1.268E-06
160	391750	3869500	5.843E-07	7.688E-08	3.589E-06	0	1.486E-06	0	0	5.736E-06	1.229E-06
161	392000	3869500	5.552E-07	7.302E-08	3.409E-06	_	1.412E-06	0	0	5.449E-06	1.168E-06
162	392250	3869500	5.288E-07	6.957E-08	3.248E-06	-	1.345E-06	0	_	5.191E-06	1.112E-06
163 164	392500 392750	3869500 3869500	5.088E-07	6.697E-08	3.127E-06	_	1.294E-06			4.997E-06	1.071E-06
165	393000	3869500	4.750E-07 4.294E-07	6.261E-08	2.923E-06		1.210E-06		_	4.671E-06	1.001E-06
166	393250	3869500	3.801E-07	5.669E-08 5.028E-08	2.647E-06 2.348E-06		1.095E-06	_	-	4.228E-06	9.060E-07
167	393500	3869500	3.399E-07	4.501E-08	2.102E-06		9.707E-07 8.689E-07	_		3.749E-06	8.034E-07
168	391250	3869750	7.538E-07	9.908E-08	4.626E-06		1.915E-06			3.356E-06 7.394E-06	7.191E-07 1.584E-06
169	391500	3869750	7.525E-07	9.900E-08	4.622E-06		1.914E-06			7.387E-06	1.583E-06
170	391750	3869750	7.192E-07	9.451E-08	4.412E-06	_	1.828E-06	-	_	7.054E-06	1.512E-06
171	392000		6.759E-07	8.887E-08	4.149E-06	. 0	1.718E-06		-	6.632E-06	1.421E-06
172	392250		6.365E-07	8.377E-08	3.911E-06	0	1.619E-06		Ö	6.250E-06	1.339E-06
173	392500		5.957E-07	7.843E-08	3.662E-06		1.516E-06		0	5.852E-06	1.254E-06
174	392750								0	5.242E-06	1.123E-06
175	393000		4.675E-07							4.587E-06	
176 177	393250 393500		-			_					8.526E-07
178	391250									3.524E-06	
179	391500		1.023E-06 9.765E-07							9.925E-06	2.127E-06
180	391750	3870000			5.609E-06					9.562E-06	
181	392000		8.388E-07	1.103E-07						8.967E-06 8.229E-06	1.922E-06 1.763E-06
182	392250		7.797E-07						0		
183	392500										
184	392750		6.108E-07	7.924E-08					) 0		
185	393000		5.113E-07	6.668E-08	3.114E-06	3 0			0		
186	393250				2.659E-06		1.099E-06		Ö		9.103E-07
187	393500						9.637E-07		0		
188	391250								0		2.972E-06
189	391500								0		
190	391750								0		2.574E-06
191	392000								0		2.248E-06
192 193	392250 392500								0		
194	392750								0 0		1.626E-06
195	393000								0 0		
			J.551E-01	7.377E-00	3.3325-0	6 (	, 1.300E-U	,	0 0	5.359E-06	1.148E-06

										Mother's	70 Year	15 Year
	Receptor	X	Y	inhale	Dermal	Soil	Water	Plants	Animal	Milk	Sum	Sum
`	196		3870250		6.201E-08	2.896E-06	0	1.197E-06	0	0	4.632E-06	9.926E-07
•	197	393500		3.985E-07	5.222E-08	2.438E-06	0	1.009E-06	0	0	3.898E-06	8.353E-07
-	198	391250			2.973E-07	1.388E-05	0	5.753E-06	0	0	2.224E-05	4.766E-06
	199	391500			2.914E-07	1.360E-05	0	5.639E-06	0	0	2.178E-05	4.667E-06
	200	391750			2.439E-07	1.139E-05	0	4.716E-06	0	0	1.823E-05	3.906E-06
	201	392250			1.403E-07	6.552E-06	0	2.707E-06	0	0	1.048E-05	2.246E-06
	202	392750			9.568E-08	4.468E-06	0	1.846E-06	0	0	7.151E-06	1.532E-06
	203 204	393000 393250			7.925E-08	3.701E-06	0	1.529E-06 1.245E-06	0	0	5.921E-06 4.811E-06	1.269E-06
	204	393500		4.926E-07 3.993E-07	6.444E-08 5.230E-08	3.009E-06 2.442E-06	0	1.245E-06	0	0	3.905E-06	1.031E-06 8.368E-07
	206	393500			5.034E-08	2.350E-06	0	9.732E-07	0	0	3.758E-06	8.053E-07
	207	393500			4.740E-08	2.213E-06	o	9.152E-07	0	0	3.543E-06	7.592E-07
	208	386000	3867500		4.710E-09	2.200E-07	ō	9.088E-08	ō	ā	3.524E-07	7.551E-08
	209	386500	3867500	4.218E-08	5.408E-09	2.525E-07	Ō	1.044E-07	0	ō	4.045E-07	8.668E-08
	210	387000	3867500	4.954E-08	6.379E-09	2.979E-07	0	1.231E-07	0	0	4.769E-07	1.022E-07
	211	387500	3867500	5.838E-08	7.536E-09	3.519E-07	0	1.455E-07	0	0	5.633E-07	1.207E-07
	212	388000	3867500	6.996E-08	9.054E-09	4.228E-07	0	1.748E-07	0	0	6.766E-07	1.450E-07
	213	388500	3867500	8.734E-08	1.136E-08	5.307E-07	0	2.194E-07	0	0	8.488E-07	1.819E-07
	214	389000	3867500	1.112E-07	1.454E-08	6.789E-07	0	2.808E-07	0	0	1.085E-06	2.325E-07
	215	389500	3867500	1.431E-07	1.878E-08	8.771E-07	0	3.629E-07	0	0	1.402E-06	3.004E-07
	216	390000	3867500	1.706E-07	2.248E-08	1.049E-06	0	4.341E-07	0		1.676E-06	3.591E-07
	217	390500	3867500	1.965E-07	2.590E-08	1.209E-06	0	5.004E-07	0		1.932E-06	4.140E-07
	218	391000 391500	3867500	2.103E-07	2.773E-08	1.295E-06	0	5.359E-07	0		2.069E-06	4.434E-07
	219 220	392000	3867500 3867500	2.171E-07 2.037E-07	2.867E-08 2.698E-08	1.339E-06 1.260E-06	0	5.540E-07 5.212E-07	0		2.139E-06 2.012E-06	4.584E-07 4.311E-07
	221	392500	3867500	1.871E-07	2.476E-08	1.260E-06	0	4.784E-07	0		1.846E-06	3.956E-07
	222	393000	3867500	1.732E-07	2.282E-08	1.065E-06	Ö	4.411E-07	a		1.702E-06	3.647E-07
	223	393500	3867500	1.723E-07	2.266E-08	1.058E-06	ō	4.381E-07	ā		1.691E-06	3.624E-07
	224	394000	3867500	1.723E-07	2.267E-08	1.058E-06	ō	4.380E-07	Č		1.691E-06	3.624E-07
	225	394500	3867500	1.689E-07	2.226E-08	1.039E-06	0	4.298E-07	C	0	1.660E-06	3.557E-07
	226	395000	3867500	1.601E-07	2.111E-08	9.858E-07	0	4.076E-07		) 0	1.575E-06	3.375E-07
•	227	386000	3868000	3.627E-08	4.633E-09	2.164E-07	0	8.934E-08		0	3.466E-07	7.427E-08
	228	386500	3868000	4.278E-08	5.473E-09	2.556E-07	0	1.056E-07		) 0	4.095E-07	8.775E-08
	229	387000	3868000	5.026E-08	6.449E-09	3.012E-07		1.245E-07			4.824E-07	1.034E-07
	230	387500	3868000	6.002E-08	7.735E-09	3.612E-07					5.783E-07	1.239E-07
	231	388000	3868000	7.258E-08	9.385E-09	4.383E-07						1.503E-07
	232	388500	3868000	9.022E-08	1.171E-08	5.469E-07					8.750E-07	1.875E-07
	233 234	389000 389500	3868000	1.175E-07 1.555E-07	1.533E-08	7.159E-07						2.454E-07 3.259E-07
	235	390000		1.959E-07	2.038E-08 2.577E-08	9.516E-07 1.203E-06				) 0		4.121E-07
	236	390500		2.333E-07	3.075E-08	1.436E-06	-					4.916E-07
	237	391000		2.558E-07	3.373E-08							5.391E-07
	238	391500		2.603E-07	3.439E-08					5 0		5.496E-07
	239	392000		2.419E-07	3.203E-08					) (		
	240	392500		2.224E-07	2.936E-08					o d		4.693E-07
	241	393000	3868000	2.139E-07	2.813E-08			5.439E-07	7	0 0	2.099E-06	4.498E-07
	242	393500	3868000	2.130E-07	2.802E-08	1.308E-06	3 (	5.416E-07	7	0 (	2.091E-06	4.481E-07
	243	394000		2.050E-07	2.703E-08					0 (		4.320E-07
	244	394500		1.916E-07						0 (		4.041E-07
	245	395000								0 (		
	246	386000								0 (		
	247	386500								-	3.934E-07	
	248	387000						1.236E-0			0 4.793E-07 0 5.864E-07	
	249 250	387500 388000			7.843E-09			0 1.514E-0 0 1.869E-0		_	0 5.864E-07 0 7.237E-07	
	250 251	388500			9.682E-09 1.223E-08			0 2.361E-0			9.136E-07	
	251	389000			1.608E-08			0 3.106E-0			3.130E-0	
	253	389500						0 4.300E-0			0 1.661E-06	
	254 254	390000						0 5.766E-0			0 2.227E-00	
	255	390500						0 7.222E-0			0 2.788E-0	
<b>.</b>	256	391000						0 8.149E-0			0 3.146E-0	
	257							0 8.181E-0	7	0	0 3.158E-0	
•	258	39200	3868500	3.006E-07		3 1.856E-0		0 7.681E-0		0	0 2.964E-0	
	259							0 7.129E-0		=	0 2.752E-0	
	260	39300	0 3868500	2745E-07	3.609E-0	8 1.685E-0	)6	0 6.977E-0	)7	0	0 2.693E-0	6 5.771E-07

										Mother's	70 Year	15 Year
Rece	ptor	X	Y	Inhale	Dermal	Soil	Water	Plants	Animal	Milk	Sum	Sum
	261	393500	3868500	2.590E-07	3.413E-08	1.594E-06	0	6,594E-07	0	0	2.547E-06	5.458E-07
	262	394000	3868500	2.356E-07	3.113E-08	1.454E-06	0	6.010E-07	ō	ō	2.322E-06	4.976E-07
	263	394500	3868500	2.088E-07	2.757E-08	1.287E-06	0	5.323E-07	. 0	0	2.056E-06	4.406E-07
	264	395000	3868500	1.764E-07	2.326E-08	1.086E-06	0	4.491E-07	0	0	1.735E-06	3.718E-07
	265	386000	3869000	3.377E-08	4.247E-09	1.983E-07	0	8.190E-08	0	0	3.182E-07	6.819E-08
	266 267	386500 387000	3869000 3869000	3.914E-08	4.954E-09	2.314E-07	0	9.555E-08	0	0	3.710E-07	7.950E-08
	268	387500	3869000	4.791E-08 5.964E-08	6.107E-09 7.642E-09	2.852E-07	0	1.178E-07	0	0	4.570E-07	9.793E-08
	269	388000	3869000	7.590E-08	9.791E-09	3.569E-07 4.572E-07	0	1.474E-07 1.890E-07	0	0	5.716E-07 7.319E-07	1.225E-07 1.568E-07
	270	388500	3869000	9.760E-08	1.264E-08	5.901E-07	0	2.440E-07	0	0	9.443E-07	2.024E-07
	271	389000	3869000	1.311E-07	1.705E-08	7.964E-07	ō	3.294E-07	ō	Ö	1.274E-06	2.730E-07
	272	389500	3869000	1.847E-07	2.412E-08	1.126E-06	Ö	4.661E-07	. 0	Ŏ	1.801E-06	3.859E-07
	273	390000	3869000	2.688E-07	3.521 E-08	1.644E-06	0	6.805E-07	. 0	. 0	2.629E-06	5.634E-07
	274	390500	3869000	3.647E-07	4.761E-08	2.223E-06	0	9.197E-07	0	. 0	3.555E-06	7.618E-07
	275	391000	3869000	4.192E-07	5.512E-08	2.574E-06	0	1.065E-06	0	.0	4.113E-06	8.814E-07
	276	391500	3869000	4.169E-07	5.506E-08	2.571E-06	0	1.064E-06	0	0	4.107E-06	8.801E-07
	277 278	392000 392500	3869000	3.939E-07	5.193E-08	2.424E-06	0	1.004E-06	0	0	3.874E-06	8.301E-07
	279	393000	3869000 3869000	3.705E-07 3.499E-07	4.873E-08	2.275E-06	0	9.421E-07	0	0	3.636E-06	7.791E-07
	280	393500	3869000	3.455E-07	4.608E-08 4.033E-08	2.152E-06 1.883E-06	0	8.906E-07 7.788E-07	0	0	3.439E-06	7.369E-07
	281	394000	3869000	2.606E-07	3.446E-08	1.609E-06	0	6.654E-07	0	0	3.007E-06 2.569E-06	6.444E-07
	282	394500	3869000	2.169E-07	2.861E-08	1.336E-06	0	5.525E-07	0	. 0	2.134E-06	5.505E-07 4.573E-07
	283	395000	3869000	1.728E-07	2.277E-08	1.063E-06	ŏ	4.399E-07	ő	ō	1.698E-06	3.639E-07
	284	386000	3869500	3.448E-08	4.370E-09	2.041E-07	Ō	8.425E-08	ō	ō	3.272E-07	7.011E-08
	285	386500	3869500	4.025E-08	5.082E-09	2.374E-07	0	9.799E-08	0	0	3.807E-07	8.158E-08
	286	387000	3869500	4.757E-08	6.023E-09	2.813E-07	0	1.162E-07	0	0	4.511E-07	9.666E-08
	287	387500	3869500	5.871E-08	7.488E-09	3.497E-07	0	1.445E-07	0	0	5.604E-07	1.201E-07
	288	388000	3869500	7.432E-08	9.534E-09	4.452E-07	0	1.840E-07	0		7.131E-07	1.528E-07
	289 290	388500 389000	3869500 3869500	9.847E-08	1.274E-08	5.950E-07	0	2.459E-07	0	0	9.521E-07	2.040E-07
	291	389500	3869500	1.364E-07 2.025E-07	1.773E-08 2.644E-08	8.279E-07	0	3.424E-07	0	0	1.324E-06	2.837E-07
	292	390000	3869500	3.540E-07	4.486E-08	1.234E-06 2.095E-06	0	5.108E-07 8.657E-07	0		1.974E-06 3.360E-06	4.230E-07
	293	390500	3869500	4.750E-07	6.229E-08	2.908E-06	0	1.204E-06	Ö		4.649E-06	7.200E-07 9.962E-07
	294	394000	3869500	2.761E-07	3.647E-08	1.703E-06	ō	7.042E-07	Ö		2.720E-06	5.829E-07
	295	394500	3869500	2.124E-07	2.800E-08	1.308E-06	ŏ	5.409E-07	ō	_	2.089E-06	4.476E-07
	296	395000	3869500	1.588E-07	2.093E-08	9.775E-07	0	4.044E-07	0	0	1.562E-06	3.347E-07
	297	386000	3870000	3.130E-08	3.984E-09	1.861E-07	0	7.677E-08	0	0	2.982E-07	6.390E-08
	298	386500	3870000	3.790E-08	4.822E-09	2.252E-07	0	9.292E-08	0	0	3.608E-07	7.731E-08
	29 <del>9</del> 300	387000 387500	3870000	4.628E-08	5.881E-09	2.747E-07	0	1.133E-07	0		4.402E-07	9.433E-08
	301	388000	3870000 3870000	5.621E-08 7.206E-08	7.164E-09 9.235E-09	3.346E-07	0	1.381E-07	. 0		5.361E-07	1.149E-07
	302	388500	3870000	9.755E-08	_	4.313E-07 5.869E-07	0	1.782E-07	0	_	6.908E-07	1.480E-07
	303	389000	3870000	1.400E-07	1.818E-08	8.491E-07			0	_	9.396E-07 1.358E-06	
	304	389500	3870000	2.187E-07	2.854E-08	1.333E-06					2.132E-06	
	305	390000	3870000		5.155E-08	2.407E-06					3.851E-06	
	306	394000	3870000			1.701E-06			-			
	307	394500		1.977E-07		1.216E-06				) • 0		4.164E-07
	308	395000				9.005E-07		3.727E-07	•	0		
	309	386000				1.518E-07						5.220E-08
	310 311	386500	3870500			1.885E-07						6.478E-08
	312	387000 387500				2.385E-07						8.190E-08
	313	388000			6.551E-09 8.489E-09	3.060E-07 3.965E-07						1.050E-07
	314	388500										1.361E-07
	315	389000					_			) 0		1.875E-07 2.766E-07
	316	389500										
	317	390000										9.825E-07
	318	394000	3870500	2.530E-07	3.324E-08	1.552E-06						
	319	394500		1.728E-07	2.276E-08	1.063E-06						
	320	395000			1.704E-08					) 0	1.271E-06	2.724E-07
	321	386000								3 0		4.511E-08
	322 323	386500								) 0		5.430E-08
	323	387000 387500			4.063E-09							6.525E-08
	325	388000										8.244E-08
					J.5075-03	J.200E-01		1.3445-07		) C	5.210E-07	1.116E-07

										Mother's	70 Year	15 Year
	Receptor	Х	Y	Inhale	Dermal	Soil	Water	Plants	Animal	Milk	Sum	Sum
	326			-		4.605E-07	0	1.901E-07	0	0	7.371E-07	1.580E-07
	327				—	6.899E-07	0	2.849E-07	0	0	1.103E-06	2.364E-07
,	328					1.193E-06	0	4.932E-07 1.198E-06	0	0	1.907E-06 4.628E-06	4.086E-07 9.917E-07
	329 330				6.198E-08 2.856E-08	2.894E-06 1.334E-06	0	5.520E-07	0	0	2.131E-06	4.566E-07
	331				2.087E-08	9.744E-07	0	4.032E-07	0	ō	1.556E-06	3.334E-07
	332				1.652E-08	7.716E-07	Ö	3.192E-07	ŏ	å	1.232E-06	2.640E-07
	333				2.591E-09	1.210E-07	ō	4.993E-08	0	0	1.940E-07	4.157E-08
	334				3.004E-09	1.403E-07	0	5.790E-08	0	0	2.249E-07	4.819E-08
	335	387000	3871500	2.817E-08	3.576E-09	1.670E-07	0	6.891E-08	0	0	2.677E-07	5.736E-08
	336		3871500		4.414E-09	2.062E-07	0	8.504E-08	0	0	3.304E-07	7.080E-08
	337	388000	3871500		5.667E-09	2.647E-07	0	1.092E-07	0	0	4.243E-07	9.092E-08
	338	388500	3871500		7.592E-09	3.546E-07	0	1.463E-07 2.259E-07	0	0	5.681E-07 8.762E-07	1.217E-07 1.878E-07
	339 340	389000 389500	3871500 3871500		1.172E-08 2.099E-08	5.475E-07 9.801E-07	0	4.048E-07	0	0	1.567E-06	3.358E-07
	341	393000	3871500		7.609E-08	3.552E-06	0	1.472E-06	o	٥	5.685E-06	1.218E-06
	342	393500	3871500		3.759E-08	1.755E-06	ā	7.265E-07	. 0	Ŏ	2.804E-06	6.009E-07
	343	394000	3871500		2.549E-08	1.190E-06	Ō	4.926E-07	0	0	1.901E-06	4.074E-07
	344	394500	3871500		1.907E-08	8.903E-07	0	3.683E-07	0	0	1.422E-06	3.047E-07
	345	395000	3871500	1.123E-07	1.486E-08	6.939E-07	0	2.870E-07	0	0	1.108E-06	2.374E-07
	346	386000	3872000		2.375E-09	1.110E-07	0	4.569E-08	0	0	1.781E-07	3.816E-08
	347	386500	3872000		2.655E-09	1.240E-07	0	5.113E-08	0		1.989E-07	4.262E-08
	348	387000	3872000	2.446E-08	3.101E-09	1.449E-07		5.975E-08	0		2.322E-07	4.976E-08
	349	387500	3872000 3872000	2.926E-08	3.730E-09	1.742E-07 2.190E-07		7.190E-08 9.042E-08	. 0		2.791E-07 3.508E-07	5.981E-08 7.517E-08
	350 351	388000 388500	3872000	3.665E-08 4.875E-08	4.688E-09 6.263E-09	2.925E-07		1.208E-07			4.683E-07	1.004E-07
	352	389000	3872000	7.248E-08	9.355E-09	4.369E-07					6.991E-07	1.498E-07
	353	389500	3872000	1.215E-07	1.576E-08	7.359E-07					1.177E-06	2.522E-07
	354	393000	3872000	4.064E-07	5.320E-08	2.483E-06				) (0	3.972E-06	8.511E-07
	355	393500	3872000	2.277E-07	3.000E-08	1.401E-06	0	5.799E-07	, (	0	2.239E-06	4.798E-07
	356	394000	3872000	1.567E-07	2.070E-08	9.667E-07					1.544E-06	3.309E-07
}	357	394500	3872000	1.190E-07	1.574E-08	7.349E-07					1.174E-06	2.516E-07
	358	395000	3872000	9.635E-08	1.274E-08	5.951E-07	_				9.504E-07 1.567E-07	2.037E-07 3.358E-08
	359 360	386000 386500	3872500 3872500	1.680E-08 1.948E-08	2.089E-09 2.421E-09	9.762E-08 1.131E-07					1.816E-07	3.891E-08
	360 361	387000	3872500	2.174E-08	2.748E-09	1.131E-07				) 0	2.059E-07	4.412E-08
	362	387500	3872500	2.604E-08	3.319E-09	1.550E-07	_			5 0		5.323E-08
	363	388000	3872500	3.227E-08	4.142E-09	1.934E-0				0		6.636E-08
	364	388500	3872500	4.165E-08	5.388E-09	2.516E-0	7 0	1.040E-07	7 (	0 0	4.026E-07	8.627E-08
	365	389000	3872500	5.612E-08	7.310E-09	3.414E-0	7 (	1.411E-0	7	0 0		1.170E-07
	366	389500	3872500	8.793E-08	1.151E-08	5.375E-0				0 0		1.841E-07
	367	390000		1.961E-07	2.577E-08	1.203E-0		4.974E-0		0. 0		
	368	392000		6.672E-07	8.892E-08			1.716E-0		0 0		
	369 370	392500 393000			6.714E-08 3.942E-08			0 1.298E-0 0 7.622E-0		0 0		
	370	393500			2.508E-08			0 4.847E-0		o c		
	372				1.763E-08			3.408E-0		ō d		
	373	394500			1.334E-08			0 2.578E-0		0 (	9.952E-07	2.133E-07
	374				1.080E-08	5.044E-0	7	0 2.087E-0	7	0 (		
	375				2.004E-09			0 3.859E-0		-	1.502E-07	
	376				2.332E-09			0 4.491E-0		-	1.748E-07	
	377							0 5.295E-0		_		4.414E-08 5.096E-08
	378							0 6.135E-0 0 7.737E-0		-	0 2.378E-07 0 2.997E-07	6.422E-08
	379 380							0 7.737E-0 0 9.911E-0			0 3.836E-07	
	381				6.904E-09			0 1.332E-0		_	0 5.155E-0	
	382							0 1.917E-0		_	0 7.417E-0	
	383							0 3.739E-0		_	0 1.445E-0	
	384							0 7.614E-0		0	0 2.943E-0	
	385							0 9.667E-4		=	0 3.736E-0	
	386							0 1.067E-		-	0 4.121E-0	
•	387							0 1.004E-		· ·		6 8.304E-07
,	388							0 8.231E-		=	0 3.178E-0	
	389			-				0 6.065E- 0 4.293E-		0	0 2.341E-0 0 1.657E-0	
	390	39350	0 387300	0 1.682E-07	2.222E-0	8 1.037E-	UG	U 4.233E-	<i>01</i>	J	0 1.00/2-0	J.J.

									Mother's	70 Year	15 Year
Receptor	X	Y	inhale	Dermal	Soil	Water	Plants	Animal	Milk	Sum	Sum
391	394000	3873000	1.247E-07	1.646E-08	7.686E-07	0	3.181E-07	0	0	1.228E-06	2.631E-07
392	394500	3873000	9.542E-08	1.259E-08	5.878E-07	0	2.433E-07	0	0	9.391E-07	2.012E-07
393	395000	3873000	7.695E-08	1.016E-08	4.744E-07	0	1.963E-07	0	0	7.578E-07	1.624E-07
394 395	386000	3873500	1.594E-08	2.007E-09	9.376E-08	0	3.866E-08	0	0	1.504E-07	3.223E-08
39 <del>3</del>	386500	3873500	1.913E-08	2.424E-09	1.132E-07	0	4.669E-08	0	0	1.814E-07	3.887E-08
397	387000	3873500	2.331E-08	2.954E-09	1.380E-07	0	5.688E-08	0	0	2.211E-07	4.738E-08
398	387500 388000	3873500	2.664E-08	3.408E-09	1.592E-07	0	6.568E-08	0	0	2.549E-07	5.462E-08
399	388500	3873500 3873500	3.029E-08	3.899E-09	1.821E-07	0	7.517E-08	0	0	2.915E-07	6.246E-08
400	389000	3873500	3.553E-08 4.511E-08	4.602E-09	2.149E-07	0	8.875E-08	0	0	3.438E-07	7.367E-08
401	389500	3873500	6.667E-08	5.853E-09 8.672E-09	2.733E-07	0	1.130E-07	0	0	4.373E-07	9.371E-08
402	390000	3873500	1.189E-07	1.552E-08	4.050E-07 7.247E-07	0	1.675E-07	0	0	6.478E-07	1.388E-07
403	390500	3873500	1.938E-07	2.551E-08	1.191E-06	0	2.996E-07 4.921E-07	0	0	1.159E-06	2.484E-07
404	391000	3873500	2.522E-07	3.342E-08	1.561E-06	0	4.921E-07	0	0	1.902E-06	4.076E-07
405	391500	3873500	2.802E-07	3.715E-08	1.735E-06	0	7.164E-07	0	0	2.491E-06 2.769E-06	5.338E-07 5.934E-07
406	392000	3873500	2.707E-07	3.593E-08	1.678E-06	o	6.933E-07	0	0	2.678E-06	5.739E-07
407	392500	3873500	2.348E-07	3.109E-08	1.452E-06	Ö	6.002E-07	0	. 0	2.318E-06	4.967E-07
408	393000	3873500	1.878E-07	2.479E-08	1.157E-06	ō	4.789E-07	ō	o	1.848E-06	3.960E-07
409	393500	3873500	1.469E-07	1.942E-08	9.067E-07	ā	3.751E-07	ō	٥	1.448E-06	3.103E-07
410	394000	3873500	1.166E-07	1.540E-08	7.192E-07	Ō	2.976E-07	ō	ō	1.149E-06	2.462E-07
411	394500	3873500	9.324E-08	1.231E-08	5.750E-07	0	2.379E-07	ō	Õ	9.184E-07	1.968E-07
412	395000	3873500	7.434E-08	9.819E-09	4.585E-07	0	1.897E-07	Ō	Õ	7.324E-07	1.569E-07
413	388000	3874000	2.657E-08	3.401E-09	1.588E-07	0	6.553E-08	0	o	2.543E-07	5.449E-08
414	388000	3874500	2.301E-08	2.950E-09	1.378E-07	0	5.688E-08	0	0	2.206E-07	4.727E-08
415	388000	3875000	2.147E-08	2.726E-09	1.273E-07	0	5.259E-08	0	O	2.041E-07	4.374E-08
416	388500	3874000	3.098E-08	3.998E-09	1.867E-07	0	7.714E-08	0	0	2.988E-07	6.403E-08
417	388500	3874500	2.836E-08	3.629E-09	1.694E-07	0	7.005E-08	0	0	2.714E-07	5.816E-08
418	388500	3875000	2.938E-08	3.776E-09	1.763E-07	0	7.287E-08	0	0	2.823E-07	6.049E-08
419	389000	3874000	4.003E-08	5.166E-09	2.412E-07	0	9.976E-08	0	0	3.862E-07	8.276E-08
420 421	389000 389000	3874500	4.123E-08	5.344E-09	2.495E-07	0	1.031E-07	0	0	3.992E-07	8.554E-08
422	389500	3875000	3.918E-08	5.051E-09	2.359E-07	0	9.742E-08	0	0	3.776E-07	8.091E-08
423	389500	3874000 3874500	6.186E-08 5.705E-08	8.049E-09	3.759E-07	0	1.554E-07	0	0	6.012E-07	1.288E-07
424	389500	3875000	5.765E-08	7.387E-09 6.947E-09	3.450E-07	. 0	1.426E-07	0	0	5.520E-07	1.183E-07
425	390000	3874000	9.984E-08	1.302E-08	3.244E-07	0	1.340E-07	0	0	5.190E-07	1.112E-07
426	390000	3874500	8.729E-08	1.138E-08	6.080E-07 5.313E-07	0	2.513E-07	0	0	9.722E-07	2.083E-07
427	390000	3875000	7.851E-08	1.020E-08	4.764E-07	0	2.196E-07 1.968E-07	0	0	8.496E-07	1.821E-07
428	390500	3874000	1.485E-07	1.949E-08	9.103E-07		3.760E-07	. 0	0	7.619E-07 1.454E-06	1.633E-07
429	390500	3874500	1.218E-07	1.593E-08	7.440E-07	0	3.074E-07	0	0	1.454E-06 1.189E-06	3.116E-07 2.548E-07
430	390500	3875000	1.027E-07	1.342E-08	6.267E-07	-	2.589E-07	0	0	1.002E-06	2.147E-07
431	391000	3874000	1.854E-07	2.449E-08	1.144E-06		4.724E-07	0	0	1.826E-06	3.913E-07
432	391000	3874500	1.433E-07	1.888E-08	8.820E-07	_	3.643E-07		-	1.408E-06	
433	391000		1.161E-07		7.137E-07		2.948E-07		0	1.140E-06	
434	391500	3874000	2.030E-07				5.174E-07		_	2.000E-06	
435	391500		1.561E-07				3.974E-07			1.536E-06	
436	391500		1.246E-07	1.642E-08	7.668E-07	. 0	3.169E-07			1.225E-06	
437	392000		2.034E-07			0	5.178E-07			2.001E-06	
438	392000		1.578E-07		9.694E-07	, 0	4.006E-07	0	. 0	1.549E-06	
439	392000		1.263E-07		7.749E-07	_	3.203E-07	0	0	1.238E-06	
440	392500		1.823E-07		1.125E-06		4.650E-07	. 0	0	1.796E-06	3.849E-07
441	392500		1.484E-07							1.457E-06	
442	392500		1.228E-07						0	1.204E-06	2.580E-07
443	393000		1.546E-07							1.512E-06	
444 445	393000		1.312E-07							1.279E-06	
445 446	393000 393500		1.100E-07							1.079E-06	
446	393500		1.269E-07								
448	393500		1.083E-07 9.445E-08							1.064E-06	
449	394000		9.445E-08 1.043E-07							9.260E-07	
450	394000										
451	394000						+·	_			
	556		// =-00	1.01 15-00	J.603E-07	U	2.069E-07	· c	0	7.994E-07	1.713E-07

# Table 6

Day	P1	P2 Ave	erage	% Diff
29-Sep-90	11.6	10.8	11.2	6.90%
02-Oct-90	31.1	27.7	29.4	10.93%
05-Oct-90	35.3	33.9	34.6	3.97%
08-Oct-90	12	9.9	11.0	17.50%
11-Oct-90	29.5	27.2	28.4	7.80%
14-Oct-90	29	26.4	27.7	8.97%
17-Oct-90	25.9	24.1	25.0	6.95%
20-Oct-90	14.9	13	14.0	12.75%
23-Oct-90	17.9	16	17.0	10.61%
26-Oct-90	25.4	23.1	24.3	9.06%
29-Oct-90	22.4	20.4	21.4	8.93%
01-Nov-90	26.4	23.1	24.8	12.50%
04-Nov-90	9.7	9	9.4	7.22%
07-Nov-90	19.7	18.4	19.1	6.60%
10-Nov-90	6	5.4	5.7	10.00%
13-Nov-90	15.1	13.7	14.4	9.27%
16-Nov-90	19.1	17.7	18.4	7.33%
19-Nov-90	26.8	23.8	25.3	11.19%
22-Nov-90	12.1	10.9	11.5	9.92%
25-Nov-90	26.8	24.7	25.8	7.84%
28-Nov-90	11.8	10.4	11.1	11.86%
01-Dec-90	18.6	16.9	17.8	9.14%
04-Dec-90	6.6	5.7	6.2	13.64%
07-Dec-90	8.4	8.1	8.3	3.57%
10-Dec-90	16.2	15.6	15.9	3.70%
13-Dec-90	16.4	14.3	15.4	12.80%
16-Dec-90	6.2	5.1	5.7	17.74%
19-Dec-90	32.8	31.1	32.0	5.18%
22-Dec-90	8	7.5	7.8	6.25%
25-Dec-90	5.1	4.2	4.7	17.65%
28-Dec-90				
31-Dec-90	11.1	10.1	10.6	9.01%
03-Jan-91	4.9	5	5.0	2.00%
06-Jan-91	9.8	8.3	9.1	15.31%
09-Jan-91	8.6	7.9	8.3	8.14%
12-Jan-91	10.4	8.5	9.5	18.27%
15-Jan-91	22.6	21.4	22.0	5.31%
18-Jan-91	7.5	7.1	7.3	5.33%
21-Jan-91	4.7	4.9	4.8	4.08%
24-Jan-91	16.1	15.4	15.8	4.35%
27-Jan-91	33	33	33.0	0.00%
30-Jan-91	38.3	35.6	37.0	7.05%
02-Feb-91	12.8	12.8	12.8	0.00%
05-Feb-91	12.8	12.2	12.5	4.69%
08-Feb-91	12.2	11.5	11.9	5.74%
11-Feb-91	14.7	13.7	14.2	6.80%
14-Feb-91	7.5	7.3	7.4	2.67%

# Table 6 (continued)

Day	P1	P2	Average	% Diff
17-Feb-91	30.6	29.3	30.0	4.25%
20-Feb-91	11.8	13.1	12.5	9.92%
23-Feb-91	24.4	22.2	23.3	9.02%
26-Feb-91	18.6	17.7	18.2	4.84%
01-Mar-91	6.3	4.6	5.5	26.98%
04-Mar-91	7.5	6.8	7.2	9.33%
07-Mar-91	9.5	9.4	9.5	1.05%
10-Mar-91	45.8	46.8	46.3	2.14%
13-Mar-91	7.8	8.3	8.1	6.02%
16-Mar-91	11.5	12.9	12.2	10.85%
19-Mar-91		10.9	12.2	10.0070
22-Mar-91	9.7	8.8	9.3	9.28%
25-Mar-91	3.6	6.1	4.9	40.98%
28-Mar-91	9	8.6	8.8	4.44%
31-Mar-91	15.9	15.2	15.6	4.40%
03-Apr-91	19.5	18.3	18.9	6.15%
06-Apr-91	26.2	25.3	25.8	3.44%
09-Apr-91	25.5	24.6	25.1	3.53%
12-Apr-91	25.4	24.5	24.7	5.51%
15-Apr-91	25.4	25.2	25.3	0.79%
18-Apr-91	25.3	24.7	25.0	2.37%
21-Apr-91	10.2	9.5	9.9	6.86%
24-Арг-91	20.3	19.1	19.7	5.91%
27-Apr-91	21.5	20.6	21.1	4.19%
30-Apr-91	44.7	41.7	43.2	6.71%
03-May-91	19.6	18.9	19.3	3.57%
06-May-91	10.0	10.5	13.5	3.57 70
09-May-91	30.1	27.1	28.6	9.97%
12-May-91	22.4	20.1	21.3	10.27%
15-May-91	19.3	18.3	18.8	5.18%
18-May-91	16.4	15.2	15.8	7.32%
21-May-91	20.5	19.9	20.2	2.93%
24-May-91	30.2	27.2	28.7	9.93%
27-May-91	24.8	23.2	24.0	6.45%
30-May-91	53	48.9	51.0	7.74%
02-Jun-91	41	37	39.0	9.76%
05-Jun-91	39	33.9	36.5	13.08%
08-Jun-91	37.8	35.2	36.5	6.88%
11-Jun-91	34.4	32	33.2	6.98%
14-Jun-91	48.3	43.1	45.7	10.77%
17-Jun-91	27.1	26.1	26.6	3.69%
20-Jun-91	30.6	29.4	30.0	3.92%
23-Jun-91	33.9	20.1	27.0	40.71%
26-Jun-91	27.8	28.4	28.1	2.11%
29-Jun-91	15.7	15.7	15.7	0.00%
02-Jul-91	31.1	53.9	42.5	42.30%
02-Jul-91 05-Jul-91	32.2	29.9		42.30% 7.14%
oo-oul-a i	32.2	29.9	31.1	1.1470

# Table 6 (continued)

Day	P1	P2	Average	% Diff
08-Jul-91	20.9	20.4	20.7	2.39%
11-Jul-91	26.5	26.7	26.6	0.75%
14-Jui-91	25.8	26.3	26.1	1.90%
17-Jul-91	25.4	25.4	25.4	0.00%
20-Jul-91	25.8	26.5	26.2	2.64%
23-Jul-91	30	28.4	29.2	5.33%
26-Jul-91	27.2	31.4	29.3	13.38%
29-Jul-91	29.9	30.7	30.3	2.61%
01-Aug-91	43.2	30.9	37.1	28.47%
04-Aug-91	26.3	28.7	27.5	8.36%
07-Aug-91	27.2	27.6	27.4	1.45%
10-Aug-91	30.6	29.8	30.2	2.61%
13-Aug-91	19.8	19.7	19.8	0.51%
16-Aug-91	26.4	19.8	23.1	25.00%
19-Aug-91	21.2	19.8	20.5	6.60%
22-Aug-91	30.5	28.2	29.4	7.54%
25-Aug-91	30.2	28.5	29.4	5.63%
28-Aug-91	28	27.2	27.6	2.86%
31-Aug-91	30.2	29	29.6	3.97%
03-Sep-91	32.3	32.9	32.6	1.82%
06-Sep-91	26.2	27.9	27.1	6.09%
09-Sep-91	40.9	44.6	42.8	8.30%
12-Sep-91	34.1	35.5	34.8	3.94%
15-Sep-91	25.8	29.6	27.7	12.84%
18-Sep-91	29.7	29	29.4	2.36%
Minimum	3.6	4.2	4.7	0.00%
Maximum	53.0	53.9	51.0	42.30%
Arithmetic Mean	22.2	21.1	21.7	₩£.0070
Geometric Mean	19.2	17.8	18.8	
			. 2.0	

# **TABLE 7**

### \*\*\* 70-YEAR LIFETIME CANCER RISK BY POLLUTANT FOR PEAK RECEPTOR # 68 \*\*\*

POLLUTANT	INHALE	DERMAL	SOIL	WATER	PLANTS	ANIMAL	MOTHER MILK	SUM
ACETA AS BENZE Be Cd Cr HCHO Fb Ni PAH Se	0.000E+00 3.986E-06 0.000E+00 1.204E-07 1.863E-07 1.023E-06 0.000E+00 1.641E-08 8.714E-09 0.000E+00 0.000E+00	0.000E+00 2.814E-07 0.000E+00 2.578E-08 0.000E+00 4.187E-09 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 1.330E-05 0.000E+00 1.218E-06 0.000E+00 1.978E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 5.541E-06 0.000E+00 4.761E-07 0.000E+00 7.963E-09 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 2.310E-05 0.000E+00 1.840E-06 1.863E-07 1.055E-06 0.000E+00 1.641E-08 8.714E-09 0.000E+00
SUM	5.341E-06	3.113E-07	1.453E-05	0.000E+00	6.025E-06	0.000E+00	0.000E+00	2.621E-05

RECEPTOR RISK OF 2.621E-05 EXCEEDS SIGNIFICANT RISK LEVEL OF 1.000E-06

RECEPTOR RISK OF 2.621E-05 EXCEEDS IMPACT ZONE RISK LEVEL OF 1.000E-07 RECEPTOR POPULATION = 0 RECEPTOR BURDEN = 0.000E+00

## **TABLE 8**

\*\*\* 70-YEAR LIFETIME CANCER RISK BY SOURCE FOR PEAK RECEPTOR # 68 \*\*\*

					77 AVEC	43773447	MOTHER MILK	SUM
SOURCE	INHALE	DERMAL	SOIL	WATER	Plants	ANIMAL	MOTHER MILK	SUM
1	2.125E-09	1.438E-10	6.721E-09	0.000E+00	2.756E-09	0.000E+00	0.000E+00	1.175E-08
2	2.590E-09	1.752E-10	8.189E-09	0.000E+00	3.358E-09	0.000E+00	0.000E+00	1.431E-08
3	1.499E-08	1.014E-09	4.741E-08	0.000E+00	1.944E-08	0.000E+00	0.000E+00	8.286E-08
4	2.686E-08	1.817E-09	8.493E-08	0.000E+00	3.483E-08	0.000E+00	0.000E+00	1.484E-07
5	2.047E-08	1.385E-09	6.473E-08	0.000E+00	2.655E-08	0.000E+00	0.000E+00	1.131E-07
6	1.598E-08	1.081E-09	5.052E-08	0.000E+00	2.072E-08	0.000E+00	0.000E+00	8.829E-08
7	1.150E-09	7.789E-11	3.642E-09	0.000E+00	1.493E-09	0.000E+00	0.000E+00	6.363E-09
8	7.426E-10	5.030E-11	2.351E-09	0.000E+00	9.641E-10	0.000E+00	0.000E+00	4.108E-09
9	1.023E-09	6.931E-11	3.240E-09	0.000E+00	1.329E-09	0.000E+00	0.000E+00	5.662E-09
10	5.386E-10	3.648E-11	1.705E-09	0.000E+00	6.993E-10	0.000E+00	0.000E+00	2.980E-09
11	5.310E-10	3.596E-11	1.681E-09	0.000E+00	6.894E-10	0.000E+00	0.000E+00	2.938E-09
12	4.079E-10	2.763E-11	1.292E-09	0.000E+00	5.296E-10	0.000E+00	0.000E+00	2.257E-09
13	3.070E-08	2.077E-09	9.708E-08	0.000E+00	3.981E-08	0.000E+00	0.000E+00	1.697E-07
14	3.706E-08	2.507E-09	1.172E-07	0.000E+00	4.805E-08	0.000E+00	0.000E+00	2.048E-07
15	2.126E-07	1.438E-08	6.722E-07	0.000E+00	2.756E-07	0.000E+00	0.000E+00	1.175E-06
16	3.747E-07	2.534E-08	1.185E-06	0.000E+00	4.858E-07	0.000E+00	0.000E+00	2.071E-06
17	2.679E-07	1.812E-08	8.470E-07	0.000E+00	3.473E-07	0.000E+00	0.000E+00	1.480E-06
18	2.183E-07	1.476E-08	6.902E-07	0.000E+00	2.830E-07	0.000E+00	0.000E+00	1.206E-06
19	1.756E-08	9.783E-10	4.564E-08	0.000E+00	1.901E-08	0.000E+00	0.000E+00	8.318E-08
20	2.137E-08	1.191E-09	5.554E-08	0.000E+00	2.313E-08	0.000E+00	0.000E+00	1.012E-07
21	1.014E-07	5.647E-09	2.634E-07	0.000E+00	1.097E-07	0.000E+00	0.000E+00	4.802E-07
22	1.777E-07	9.902E-09	4.619E-07	0.000E+00	1.924E-07	0.000E+00	0.000E+00	8.419E-07
23	1.256E-07	6.999E-09	3.265E-07	0.000E+00	1.360E-07	0.000E+00	0.000E+00	5.951E-07
24	9.703E-08	5.407E-09	2.522E-07	0.000E+00	1.050E-07	0.000E+00	0.000E+00	4.597E-07
25	7.461E-08	3.523E-09	1.654E-07	0.000E+00	6.573E-08	0.000E+00	0.000E+00	3.093E-07
26	1.107E-07	6.167E-09	2.877E-07	0.000E+00	1.198E-07	0.000E+00	0.000E+00	5.243E-07
27	2.688E-07	1.498E-08	6.986E-07	0.000E+00	2.910E-07	0.000E+00	0.000E+00	1.273E-06
28	3.467E-07	1.932E-08	9.013E-07	0.000E+00	3.754E-07	0.000E+00	0.000E+00	1.643E-06
29	1.746E-06	9.730E-08	4.539E-06	0.000E+00	1.890E-06	0.000E+00	0.000E+00	8.273E-06
30	1.070E-07	5.962E-09	2.781E-07	0.000E+00	1.158E-07	0.000E+00	0.000E+00	5.069E-07 9.737E-08
31	2.055E-08	1.145E-09	5.342E-08	0.000E+00	2.225E-08	0.000E+00	0.000E+00	2.335E-07
32	4.929E-08	2.746E-09	1.281E-07	0.000E+00	5.336E-08	0.000E+00	0.000E+00	2.892E-07
33	6.105E-08	3.401E-09	1.587E-07	0.000E+00	6.609E-08	0.000E+00	0.000E+00	1.130E-06
34	2.386E-07	1.329E-08	6.201E-07	0.000E+00	2.583E-07	0.000E+00	0.000E+00 0.000E+00	9.391E-08
35	1.982E-08	1.105E-09	5.152E-08	0.000E+00	2.146E-08	0.000E+00	0.000E+00	1.459E-07
36	3.081E-08	1.717E-09	8.008E-08	0.000E+00	3.335E-08	0.000E+00	0.000E+00	3.468E-07
37	7.320E-08	4.078E-09	1.903E-07	0.000E+00	7.924E-08	0.000E+00 0.000E+00	0.000E+00	4.171E-07
38	8.804E-08	4.906E-09	2.288E-07	0.000E+00	9.531E-08	0.000E+00	0.000E+00	1.431E-06
39	3.021E-07	1.683E-08	7.851E-07	0.000E+00	3.270E-07	0.000E+00	0.000E+00	1.405E-07
40	2.966E-08	1.652E-09	7.709E-08	0.000E+00	3.211E-08		0.000E+00	0.000E+00
41	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00
42	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00
43	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00
44	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	4.619E-09
45	4.605E-09	1.825E-12	8.625E-12	0.000E+00	3.471E-12	0.000E+00		0.000E+00
46	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	U.UUUETUU	0.000700
SUM	5.341E-06	3.113E-07	1.453E-05	0.000E+00	6.025E-06	0.000E+00	0.000E+00	2.621E-05

RECEPTOR RISK OF 2.621E-05 EXCEEDS SIGNIFICANT RISK LEVEL OF 1.000E-06

RECEPTOR RISK OF 2.621E-05 EXCEEDS IMPACT ZONE RISK LEVEL OF 1.000E-07 RECEPTOR FORULATION = 0 RECEPTOR BURDEN = 0.000E+00

TABLE 9

### \*\*\* ACUTE HAZARD INDEX BY POLLUTANT FOR PEAK RECEPTOR # 34 \*\*\*

ACROL 0.000E+00 0.000E+00 2.500E+00 0.000E+00	4.593E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

TABLE 10

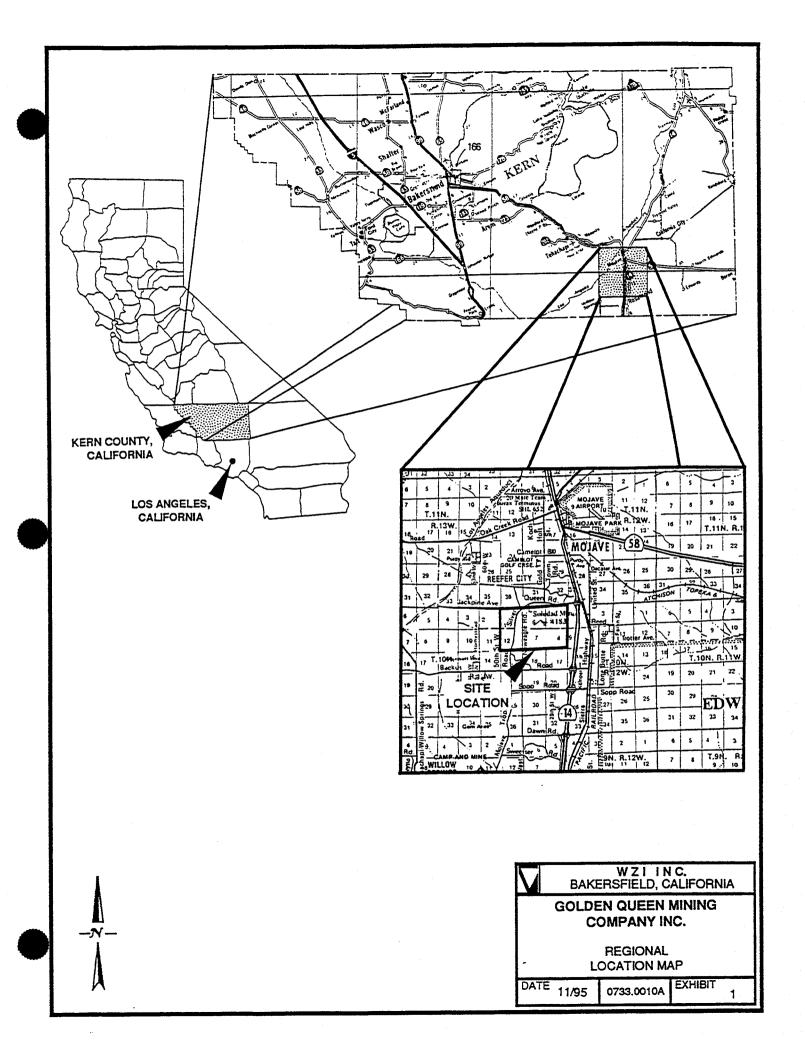
\*\*\* CHRONIC HAZARD INDEX BY POLLUTANT FOR FEAK RECEPTOR # 87 \*\*\*

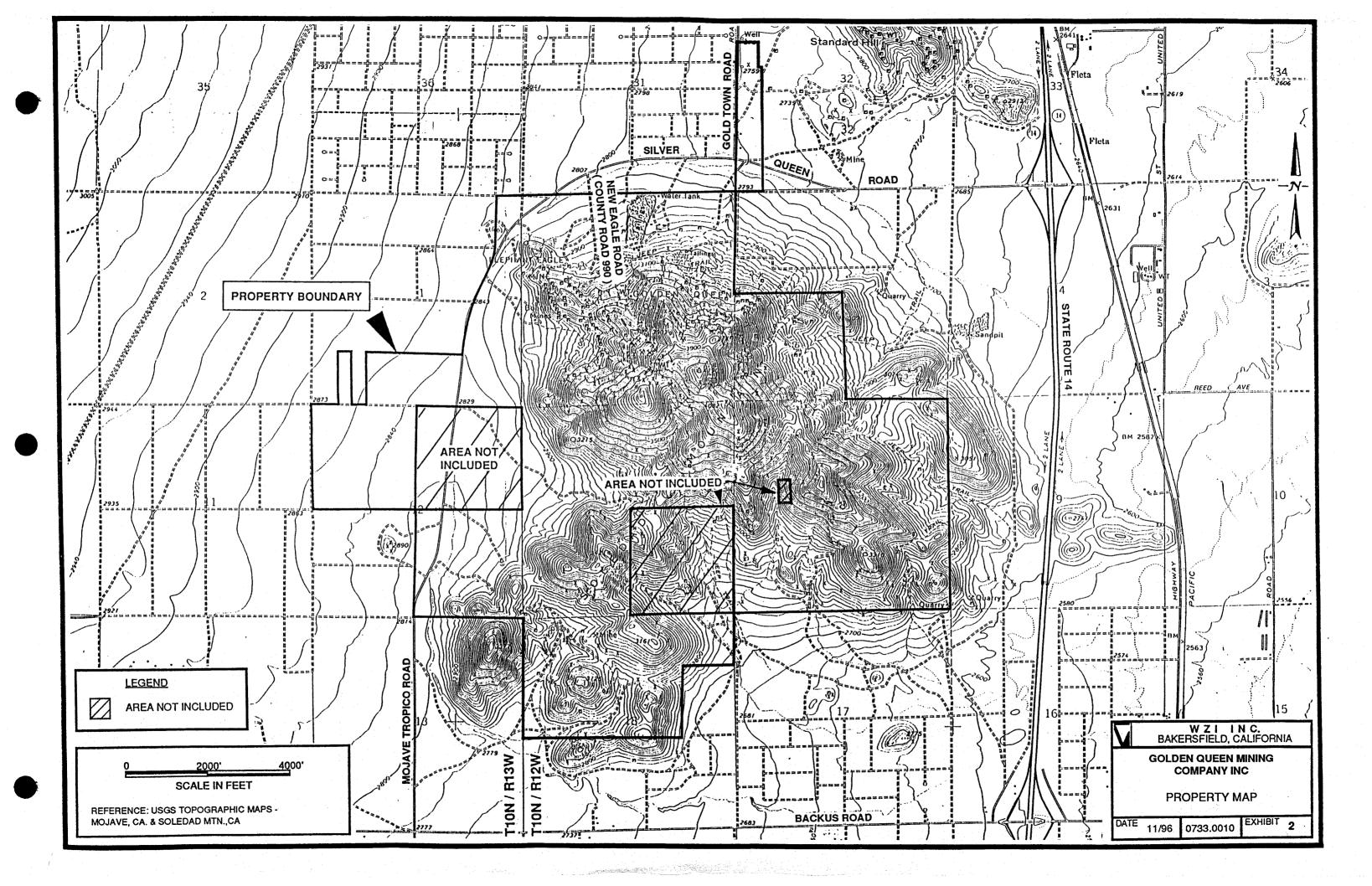
POLLUTANT	ORAL DOSE (mg/kg-d)	BACKGR (ug/m3)	AEL (ug/m3)	C3	CIS	Deann	KIDN	LIVER	REPRO	RESP	SKIN
ACTTA ACTOL AS BEN VE Be Cd Cd Cd Cd Cd Cd MR	0.000E+00 0.000E+00 1.000E+03 0.000E+03 5.000E-03 5.000E+03 0.000E+00 0.000E+00 0.000E+00 4.300E+04 0.000E+00 4.000E+00 4.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	9.000E+00 2.000E-01 7.100E+01 4.800E-03 3.500E+00 2.000E-03 3.500E+00 3.600E+00 4.000E+01 1.500E+01 2.400E-01 2.400E-01 2.400E-01 2.000E+02 3.000E+02 3.500E+02	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 2.769E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.002+00 0.0012+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.240E-04 7.480E-04 0.000E+00 0.000E+00 9.423E-04 0.000E+00 2.853E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 4.892E-04 0.000E+00 2.566E-03 2.546E-06 7.449E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
				2 2225-02	£ 163E-02	9 7108-04	1 8435-03	7 ARRE-DA	9 425E-04	4 423E-03	2.769E-03

# TABLE 11 ALTERNATIVES EVALUATION

Source	Max Conc	Date	X	Y	+20.00%	-20.00%
DRLPIT1	0.1944	91010424	390203	3872720	, 20.00.0	
DRLPIT2	0.0809	91030424	390669	3872895		
DRLPIT3	0.6113	91102924	391846	3872159		
DRLPIT4	0.2513	91102224	392694	3871346		
DRLPIT5	0.2513	91120924	391842	3870521		
					·	
DRLPIT6	0.1665	91120924	391445	3870519		
BLSPIT1	2.5751	91122724	391044	3870310		
BLSPIT2	2.8768	91112424	392607	3870689	2.88	2.88
BLSPIT3	2.6327	91111424	391846	3872159		
BLSPIT4	1.4874	91010624	390904	3872902		
BLSPIT5	1.5918	91121324	392010	3870521		
BLSPIT6	1.3898	91121324	391643	3870520		
TRLPIT1	2.2566	91010424	390203	3872720		
TRLPIT2	1.1981	91030424	390669	3872895		
TRLPIT3	4.7605	91102924	391846	3872159		
TRLPIT4	3.7256	91102224	392694	3871346		
TRLPIT5	2.4449	91120924	391842	3870521		
TRLPIT6	2.4289	91120924	391445	3870519		
HAUL_1	2.9507	91102724	390027	3872472		
HAUL_2	0.8520	91010424	390352	3872832		
HAUL_3	6.1348	91102924	391846	3872159		
HAUL_4	3.6335	91012224	392670	3871765		
HAUL_5	1.6690	91120924	391842	3870521		
HAUL_6	1.6660	91120924	391445	3870519		
BGHSE1	2.0032	91111124	391846	3872159	2.40	1.60
TRU WST1	2.5193	91092924	390209	3871270	2.70	1.00
TRU_WST2						
	3.6582	91112424	391049	3870518		
TRU_WST3	4.4429	91120924	391049	3870518		
TRU_WST4	6.1439	91120924	391643	3870520		
TRU_WST5	6.6818	91112424	392694	3871346		
DZG_W1	0.2389	91092924	390209	3871270		
DZG_W2	0.3701	91112424	391049	3870518		
DZG_W3	0.3186	91010124	391049	3870518		
DZG W4	0.4772	91120924	391643	3870520		
DZG W5	0.5342	91120924	392694	3871346		
ERSN W1	0.9120	91092924	390209	3871270		
ERSN_W2	1.4721	91112424	391049	3870518		
ERSN_W3	1.0974	91122424	391247	3870518		
_						
ERSN_W4	1.6694	91120924	391643	3870520		
ERSN_W5	1.9674	91120924	392694	3871346		
PIT_1	24.4784	91120924	391643	3870520		
PIT_2	24.3803	91120924	391643	3870520		
PIT_3	26.8219	91120924	391643	3870520		
PIT_4	26.8198	91120924	391643	3870520		
PIT_5	26.8198	91120924	391643	3870520		
PIT 6	26.0365	91120924	391643	3870520		
DRILLING	0.8648	91102924	391846	3872159	1.04	0.69
LOADING	9.0584	91120924	391842	3870521	10.87	7.25
HAULING						
	8.6330	91102924	391846	3872159	10.36	6.91
UNLOADG	8.5697	91120924	391049	3870518	10.28	6.86
DOZING	0.7473	91120924	391049	3870518	0.90	0.60
EROSION	2.8077	91120924	391049	3870518	2.81	2.81
Maximum	26.8219				31.33	22.32
			B	ackground	18.8	18.8
				otal	50.13	41.12
			•		30.10	4

**EXHIBITS** 





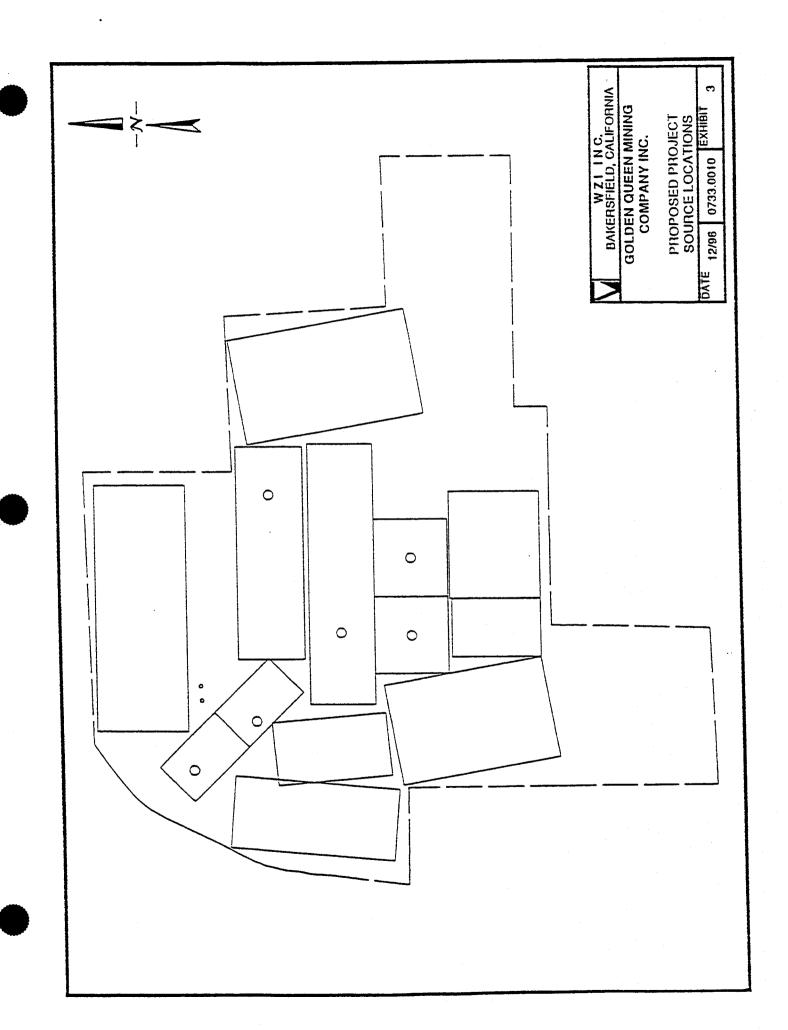
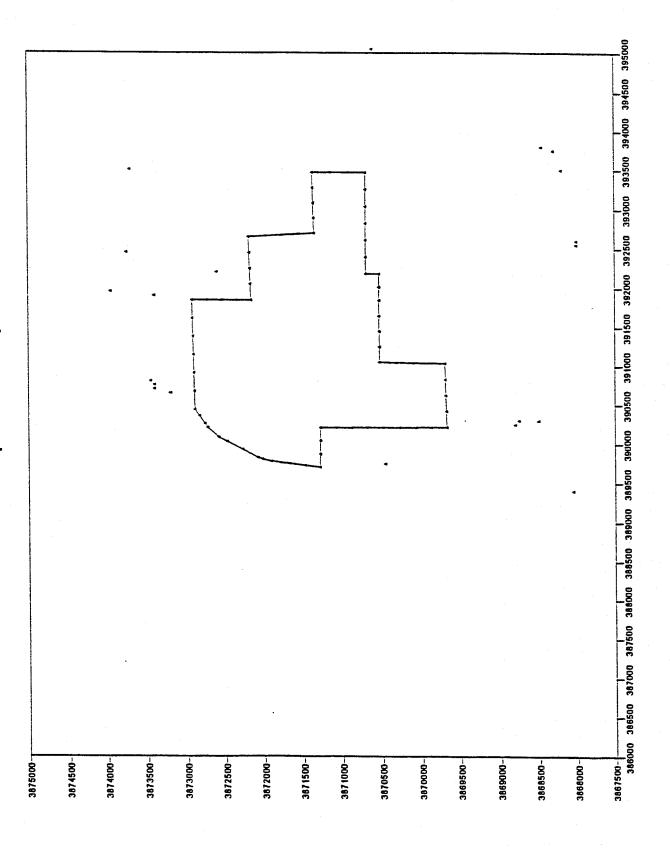
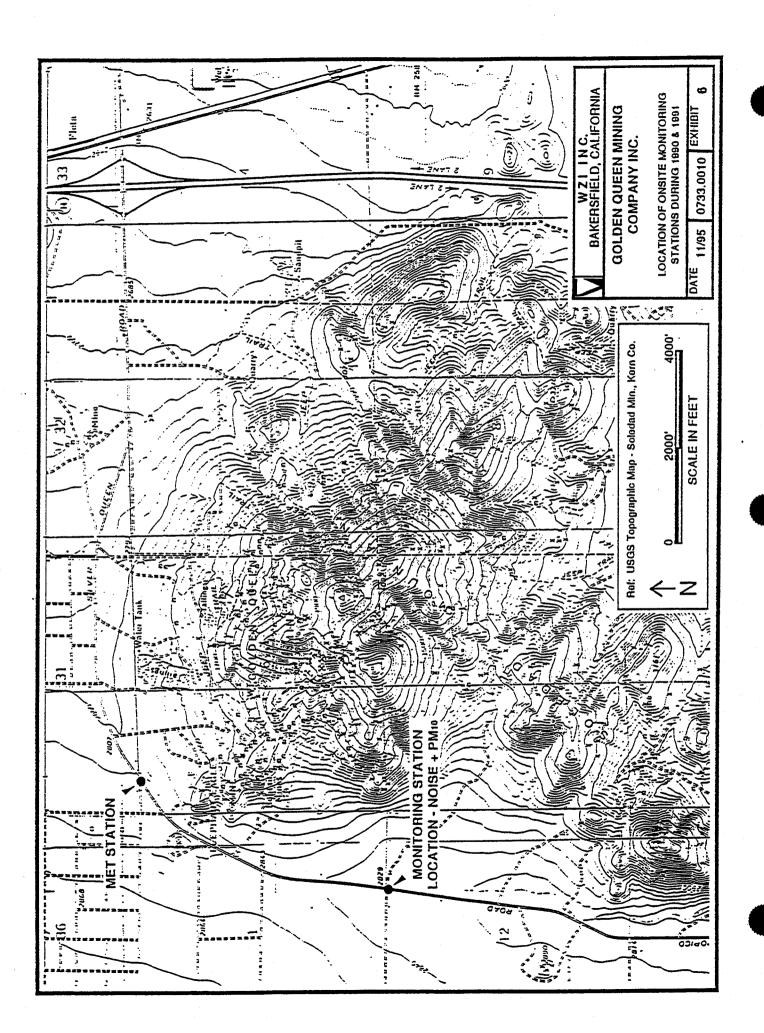


EXHIBIT 4 Fence Line and Specific Receptor Locations



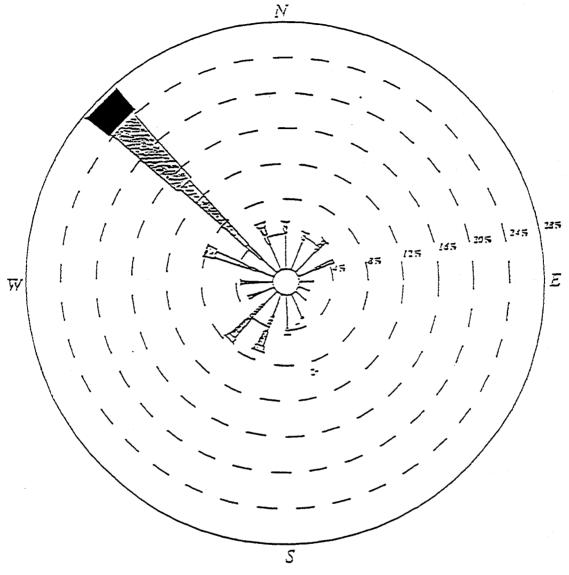
0 Gridded Receptor Locations 0 ٥ ۰ 0 3868000-3869000-3868500-3870000-3869500-3870500-3871500~ 3871000-3872500-3873500-3872000-3874500-3873000-3875000-3874000-

**EXHIBIT 5** 



Saleded

October 1989 to September 1990; Midnight - 11 PM



CALM WINDS 4.66%

WIND SPEED (KNOTS)

NOTE: Frequencies indicate direction from which the wind is blowing.



W Z L I N C. BAKERSFIELD, CALIFORNIA

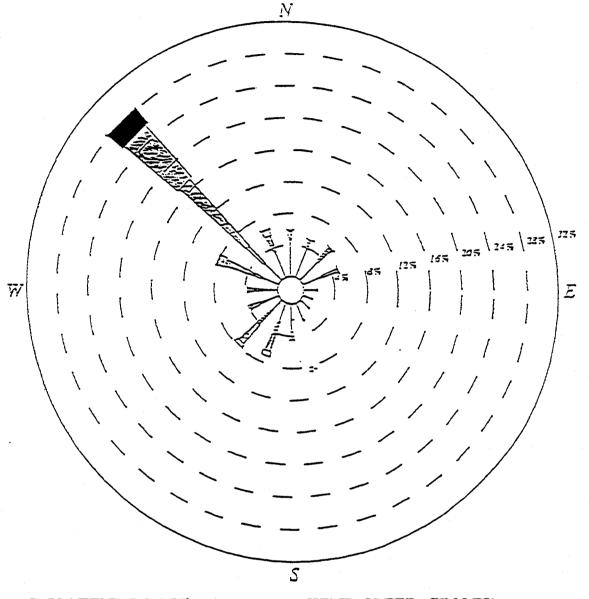
GOLDEN QUEEN MINING COMPANY INC. Soledad Mountain Project

> WIND ROSE DIAGRAM ONSITE DATA 1989-1990

DATE

0733.0010 EXHISIT 11/96

Soledad September 1990 to August 1991; Midnight - 11 PM



CALM WINDS 0.17%

WIND SPEED (KNOTS)

NOTE: Frequencies indicate direction from which the wind is blowing.



### W Z I I N C. BAKERSFIELD, CALIFORNIA

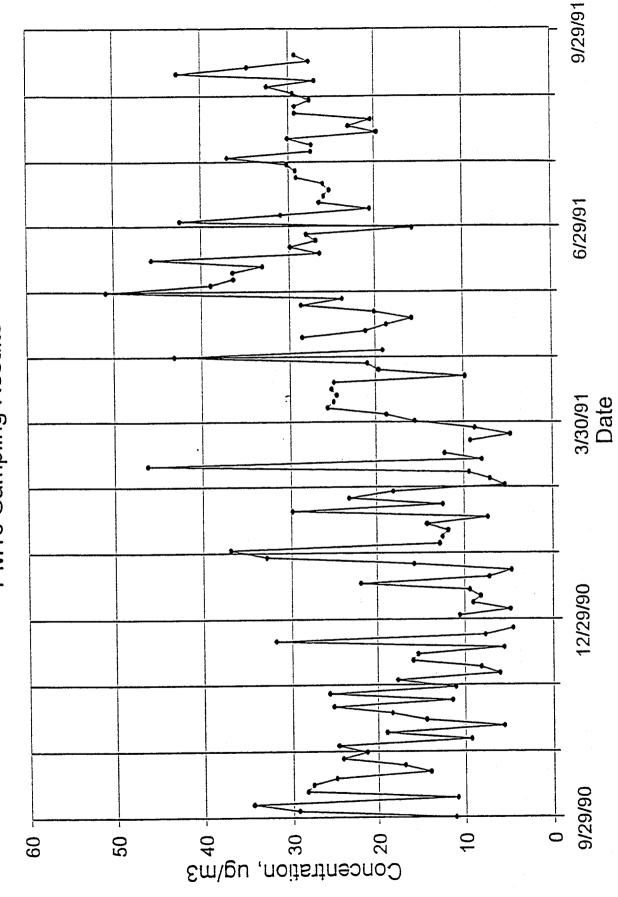
GOLDEN QUEEN MINING COMPANY INC. Soledad Mountain Project

> WIND ROSE DIAGRAM ONSITE DATA 1990-1991

DATE 11/95 0733.0010

EXHIBIT 8





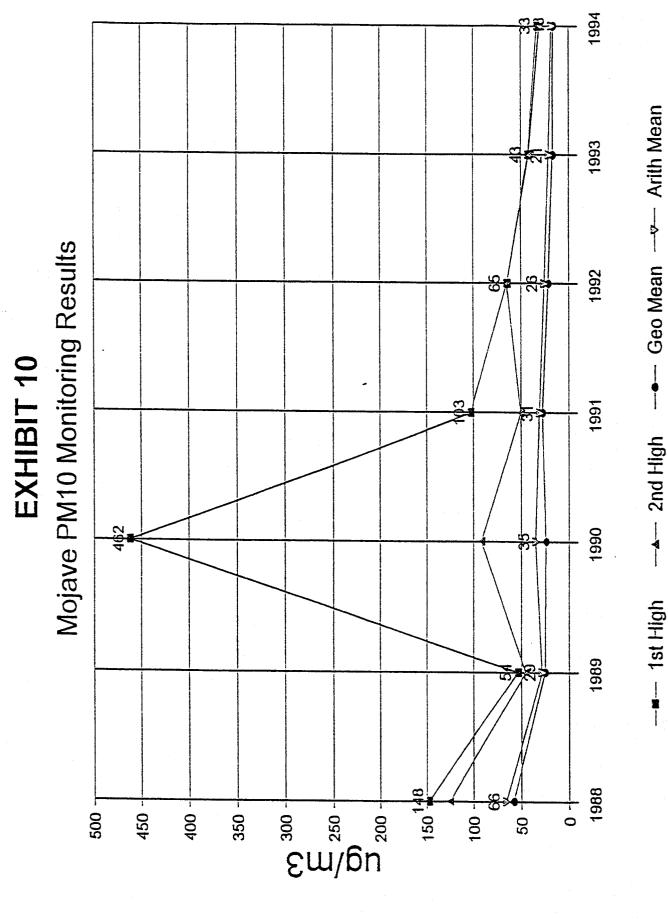
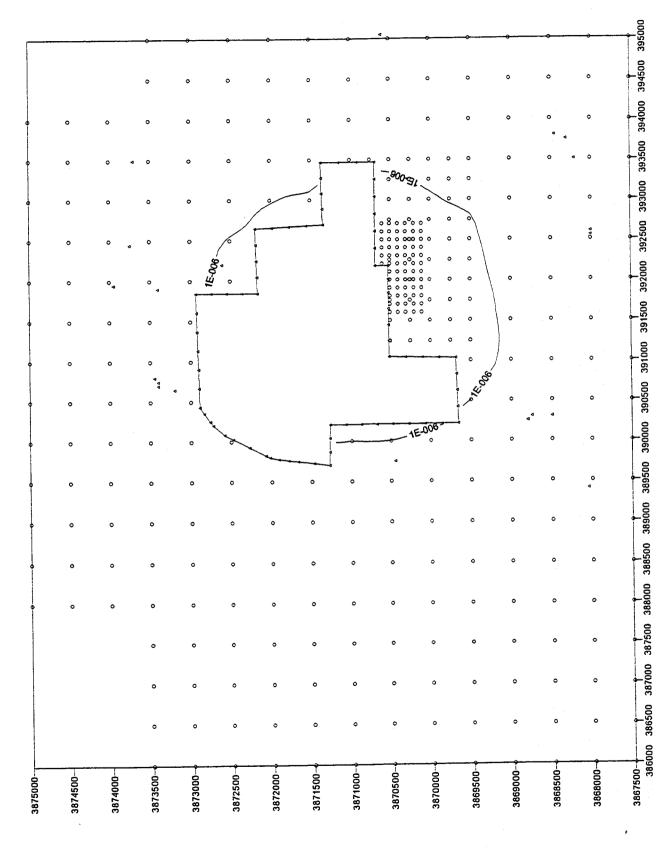


EXHIBIT 11 1E-06 Excess Cancer Risk Isopleth



APPENDIX A

## KERN COUNTY AIR POLLUTION CONTROL DISTRICT THOMAS PAXSON, P.E., APCO

AKERSFIELD OFFICE 2700 "M" STREET, SUITE 290 BAKERSFIELD, CA 93301 PHONE: (805) 861-2593 FAX: (805) 861-2595



MOJAVE OFFICE 1775 HIGHWAY 58 MOJAVE, CA 93501 PHONE: (805) 824-4631 FAX: (805) 824-1140

June 1, 1995

Mr. Greg McNeish WZI., Inc. 4700 Stockdale Hwy Suite 120 P.O. BOX 9217 Bakersfield, CA 93389

SUBJECT: Golden Queen Mining-Review of Modelling Protocol

Dear Mr. McNeish:

We have reviewed your proposed modelling protocol to be used in estimating the air quality impact of the proposed Golden Queen Mining Company project. This protocol is acceptable provided you include the following revisions/clarifications:

- 1) Impact of project on State and National Ambient Air Quality Standards, (above background concentrations) must be determined and discussed in EIR/EIS document.
- 2) Model input and output results shall be submitted on 3-1/2" disk.
- Federal and/or Cal-EPA adopted/approved Dispersion Modelling, Risk Assessment, and Risk Management Guideline shall be followed. Any variations from regulatory defaults shall be clearly identified and discussed in final report and any such variations shall receive prior approval.
- 4) Combustion emissions from all anticipated sources shall be included in modelling and in NSR permitting.
- 5) Emissions from gold recovery/refining operations shall be included in modelling and NSR permitting.
- 6) Calculation of emission rates showing all assumptions shall be submitted.

  Calculation of fugitive emissions shall utilize most recent AP-42 equations and onsite raw material data.

Mr. Greg McNeish June 1, 1995 Page 2.

- 7) Copy of on-site raw material laboratory data used in calculations shall be submitted including description of how sample was obtained and test methods used in analysis.
- 8) Emissions occurring from unloading of ore and waste onto stockpile or leach pile shall be included in modelling.
- Previously approved for use in calculating the settling velocities if on-site data is previously approved for use in calculating the settling velocity as specified in ISC2 manual. Default values for deposition velocity may not be used in place of settling velocity in determining alternate reflection coefficient.
- 10) Reduce grid spacing to 100 meters around estimated peak off-site locations as opposed to 500 meter spacing proposed. Include map of area showing receptor locations.
- 11) Please indicate location of meteorological stations on a topographic map of area. Also include wind rose, plot or table of average hourly wind speeds, discussion of treatment of calms and discussion of averaging times used in modelling.
- Discuss suitability of Nevada mixing height data as opposed to using mixing height data from nearby Edwards AFB. Unless data clearly indicates Nevada is more representative of conditions near Soledad Mountain, mixing height data from Edwards AFB should be used.
- 13) Impact analysis on Class I and Class II areas shall be performed pursuant to EPA requirements.

Thank you for you cooperation in this matter. Should you have any questions, please contact Ms. Mary J. Flynn at (805) 861-2593.

Sincerely,

Thomas Paxson, P.E.

Air Pollution Control Officer



```
**BEE-Line Software: BEEST for Windows data input file
                     Date: 11/4/96 Time: 6:11:27 PM
NO ECHO
CO STARTING
CO TITLEONE GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT
CO TITLETWO PM10 Analysis - 1991 Met - 6 MMTPY Hourly Average
CO MODELOPT CONC RURAL MSGPRO
CO AVERTIME 24
CO POLLUTID PM-10
CO TERREGIS ELEV
CO RUNORNOT RUN
CO FINISHED
SO STARTING
SO ELEVUNIT METERS
SO LOCATION DRLPIT1 AREA 390138.00 3872375.00 960.1200
SO SRCPARAM DRLPIT1 3.017E-08 2.0000 400.00 250.00 45.00 .00
SO LOCATION DRLPIT2 AREA 390421.00 3872091.00 975.3600
SO SRCPARAM DRLPIT2 3.017E-08 2.0000 400.00 250.00 45.00 .00
SO LOCATION DRLPIT3 AREA 390876.00 3871798.00 1036.2000
SO SRCPARAM DRLPIT3 3.018182E-08 2.0000 1100.00 350.00 .00 .00
SO LOCATION DRLPIT4 AREA 390640.00 3871432.00 1097.2800
SO SRCPARAM DRLPIT4 3.09418E-08 2.0000 1350.00 350.00 .00 .00
SO LOCATION DRLPITS AREA 391200.00 3871050.00 1097.2800
SO SRCPARAM DRLPITS 3.017105E-08 2.0000 400.00 380.00 .00 .00
SO LOCATION DRLPIT6 AREA 390800.00 3871050.00 1097.2800
SO SRCFARAM DRLPIT6 3.017105E-08 2.0000 400.00 380.00 .00 .00
SO LOCATION BLSPIT1 VOLUME 390300 3872374 960.1200
SO SRCPARAM BLSPIT1 19.7800000 50.0000 93.0233 23.2558
SO LOCATION BLSPIT2 VOLUME 390553 3872050 975.3600
SO SRCPARAM BLSPIT2 19.7800000 50.0000 93.0233 23.2558
SO LOCATION BLSPIT3 VOLUME 391726.00 3871973.00 1127.7600
SO SRCPARAM BLSPIT3 19.7800000 50.0000 93.0233 23.2558
SO LOCATION BLSPIT4 VOLUME 391015.00 3871607.00 1097.2800
SO SRCPARAM BLSPIT4 19.7800000 50.0000 93.0233 23.2558
SO LOCATION BLSPITS VOLUME 391400 3871240 1097.2800
SO SRCPARAM BLSPIT5 19.7800000 50.0000 93.0233 23.2558
SO LOCATION BLSPIT6 VOLUME 391000 3871240 1097.2800
SO SRCPARAM BLSPIT6 19.7800000 50.0000 93.0233 23.2558
SO LOCATION TRLPIT1 AREA 390138.00 3872375.00 960.1200
SO SRCPARAM TRLPIT1 4.914E-07 6.0000 400.00 250.00 45.00 .00
SO LOCATION TRLPIT2 AREA 390421.00 3872091.00 975.3600
SO SRCPARAM TRLPIT2 4.914E-07 6.0000 400.00 250.00 45.00
SO LOCATION TRLPIT3 AREA 390876.00 3871798.00 1036.2000
SO SRCPARAM TRLPIT3 4.914286E-07 6.0000 1100.00 350.00 .00 .00
SO LOCATION TRLPIT4 AREA 390640.00 3871432.00 1097.2800
SO SRCPARAM TRLPIT4 4.914286E-07 6.0000 1350.00 350.00 .00 .00
SO LOCATION TRLPITS AREA 391200.00 3871050.00 1097.2800
SO SRCPARAM TRLPIT5 4.913816E-07 6.0000 400.00 380.00 .00 .00
SO LOCATION TRLPIT6 AREA 390800.00 3871050.00 1097.2800
SO SRCPARAM TRLPIT6 4.913816E-07 6.0000 400.00 380.00 .00 .00
SO LOCATION HAUL 1 AREA 390138.00 3872375.00 960.1200
SO SRCPARAM HAUL 1 1.1676E-06 2.0000 400.00 62.5 45.00 SO LOCATION HAUL 2 AREA 390421.00 3872091.00 975.3600
SO SRCPARAM HAUL_2 1.1676E-06 2.0000 400.00 62.5 45.00 .00
SO LOCATION HAUL_3 AREA 390876.00 3871973 1036.2000
SO SRCPARAM HAUL 3 1.167792E-06 2.0000 1100.00 87.5 .00 .00
SO LOCATION HAUL 4 AREA 390640.00 3871607 1097.2800
SO SRCPARAM HAUL 4 1.167407E-06 2.0000 1350.00 87.5 .00 .00
SO LOCATION HAUL_5 AREA 391200.00 3871240 1097.2800
SO SRCPARAM HAUL 5 1.167895E-06 2.0000 400.00 95 .00 .00 SO LOCATION HAUL 6 AREA 390800.00 3871240 1097.2800
 SO SRCPARAM HAUL_6 1.167895E-06 2.0000 400.00 95 .00 .00
 SO LOCATION BGHSE1 POINT 390660.00 3872330.00 908.3000
 SO SRCPARAM BGHSE1 .1805 6.7100 305.0000 21.5330 1.0000
 SO LOCATION TRU_WST1 AREA 390273 3871355 975.36
 SO SRCPARAM TRU WST1 2.402783E-07 2.0000 375 575 -5.00 .00
 SO LOCATION TRU_WST2 AREA 390364 3870483 1066.8
 SO SRCPARAM TRU_WST2 2.403463E-07 2.0000 525 825 -10 .00
 SO LOCATION TRU_WST3 AREA 390885 3870573 1127.76
 SO SRCPARAM TRU WST3 2.402626E-07 2.0000 300.00 457 .00 .00
 SO LOCATION TRU WST4 AREA 391190 3870573 1127.76
 SO SRCPARAM TRU_WST4 2.402959E-07 2.0000 550.00 467 .00 .00
 SO LOCATION TRU WST5 AREA 392143 3871161 1005.84
 SO SRCPARAM TRU WST5 2.402182E-07 2.0000 545 925 -10 .00
 SO LOCATION DZG W1 AREA 390273 3871355 975.36
 SO SRCPARAM DZG_W1 1.537855E-07 4.0000 375 575 -5.0 .00
 SO LOCATION DZG_W2 AREA 390364 3870483 1066.8
 SO SRCPARAM DZG_W2 1.537662E-07 4.0000 525 825 -10.00 .00
 SO LOCATION DZG W3 AREA 390885 3870573 1127.76
 SO SRCPARAM DZG_W3 1.537564E-07 4.0000 300 457 .00 .00
```

```
SO LOCATION DZG W4 AREA 391190 3870573 1127.76
SO SRCPARAM DZG_W4 1.537863E-07 4.0000 550 467 .00 .00
SO LOCATION DZG W5 AREA 392143 3871161 1005.84
SO SRCPARAM DZG_W5 1.537714E-07 4.0000 545 925 -10.00 .00
SO LOCATION ERSN W1 AREA 390273 3871355 975.36
SO SRCPARAM ERSN W1 7.656811E-08 5 375 575 -5.00 .00
SO LOCATION ERSN_W2 AREA 390364 3870483 1066.8
SO SRCPARAM ERSN W2 7.655989E-08 5 525 825 -10.00 .00
SO LOCATION ERSN_W3 AREA 390885 3870573 1127.76
SO SRCPARAM ERSN W3 7.658643E-08 5 300 457 .00 .00
SO LOCATION ERSN W4 AREA 391190 3870573 1127.76
SO SRCPARAM ERSN W4 7.658166E-08 5 550 467 .00 .00
SO LOCATION ERSN_W5 AREA 392143 3871161 1005.84
SO SRCPARAM ERSN_W5 7.656831E-08 5 545 925 -10.00 .00
SO EMISFACT BLSPĪT1 SEASON .0417 .0417 .0417 .0417
SO EMISFACT BLSPIT2 SEASON .0417 .0417 .0417 .0417 SO EMISFACT BLSPIT3 SEASON .0417 .0417 .0417 .0417
SO EMISFACT BLSPIT4 SEASON .0417 .0417 .0417 .0417
SO EMISFACT BLSPIT5 SEASON .0417 .0417 .0417 .0417
SO EMISFACT BLSPIT6 SEASON .0417 .0417 .0417 .0417
SO EMISFACT DRLPIT1 SEASON .8333 .8333 .8333 .8333
SO EMISFACT DRLPIT2 SEASON .8333 .8333 .8333
SO EMISFACT DRLPIT3 SEASON .8333 .8333 .8333 .8333
SO EMISFACT DRLPIT4 SEASON .8333 .8333 .8333 .8333
SO EMISFACT DRLPIT5 SEASON .8333 .8333 .8333 .8333
SO EMISFACT DRLPIT6 SEASON .8333 .8333 .8333 .8333
SO EMISFACT TRLPIT1 SEASON .8333 .8333 .8333
SO EMISFACT TRLPIT2 SEASON .8333 .8333 .8333
SO EMISFACT TRLPIT3 SEASON .8333 .8333 .8333 .8333
SO EMISFACT TRLPIT4 SEASON .8333 .8333 .8333
SO EMISFACT TRLPIT5 SEASON .8333 .8333 .8333 .8333
SO EMISFACT TRLPIT6 SEASON .8333 .8333 .8333 .8333
SO EMISFACT HAUL_1 SEASON .8333 .8333 .8333
SO EMISFACT HAUL_2 SEASON .8333 .8333 .8333
SO EMISFACT HAUL_3 SEASON .8333 .8333 .8333
SO EMISFACT HAUL 4 SEASON .8333 .8333 .8333 .8333 SO EMISFACT HAUL 5 SEASON .8333 .8333 .8333 .8333
SO EMISFACT HAUL_6 SEASON .8333 .8333 .8333
SO EMISFACT TRU_WST1 SEASON .6667 .6667 .6667 .6667
SO EMISFACT TRU_WST2 SEASON .6667 .6667 .6667 .6667
SO EMISFACT TRU_WST3 SEASON .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6667 .6
SO EMISFACT TRU_WST5 SEASON .6667 .6667 .6667 .6667
SO EMISFACT DZG_W1 SEASON .1165 .1165 .1165 .1165
SO EMISFACT DZG_W2 SEASON .1165 .1165 .1165 .1165
SO EMISFACT DZG W3 SEASON .1165 .1165 .1165 .1165
SO EMISFACT DZG W4 SEASON .1165 .1165 .1165 .1165
SO EMISFACT DZG W5 SEASON .1165 .1165 .1165 .1165
SO SRCGROUP ALL
SO SRCGROUP DRLPIT1 DRLPIT1
SO SRCGROUP DRLPIT2 DRLPIT2
SO SRCGROUP DRLPIT3 DRLPIT3
SO SRCGROUP DRLPIT4 DRLPIT4
SO SRCGROUP DRLPITS DRLPITS
SO SRCGROUP DRLPIT6 DRLPIT6
SO SRCGROUP BLSPIT1 BLSPIT1
SO SRCGROUP BLSPIT2 BLSPIT2
SO SRCGROUP BLSPIT3 BLSPIT3
SO SRCGROUP BLSPIT4 BLSPIT4
SO SRCGROUP BLSPIT5 BLSPIT5
SO SRCGROUP BLSPIT6 BLSPIT6
SO SRCGROUP TRLPIT1 TRLPIT1
SO SRCGROUP TRLPIT2 TRLPIT2
SO SRCGROUP TRLPIT3 TRLPIT3
SO SRCGROUP TRLPIT4 TRLPIT4
SO SRCGROUP TRLPITS TRLPITS
SO SRCGROUP TRLPIT6 TRLPIT6
SO SRCGROUP HAUL_1 HAUL_1
SO SRCGROUP HAUL 2 HAUL 2
SO SRCGROUP HAUL 3 HAUL 3
SO SRCGROUP HAUL_4 HAUL_4
SO SRCGROUP HAUL_5 HAUL_5
SO SRCGROUP HAUL 6 HAUL 6
SO SRCGROUP BGHSE1 BGHSE1
SO SRCGROUP TRU_WST1 TRU_WST1
SO SRCGROUP TRU_WST2 TRU_WST2
SO SRCGROUP TRU WST3 TRU WST3
SO SRCGROUP TRU WST4 TRU WST4
SO SRCGROUP TRU_WST5 TRU_WST5
SO SRCGROUP DZG_W1 DZG_W1
SO SRCGROUP DZG_W2 DZG_W2
SO SRCGROUP DZG W3 DZG W3
SO SRCGROUP DZG_W4 DZG_W4
```

```
SO SRCGROUP DZG W5 DZG W5
SO SRCGROUP ERSN W1 ERSN W1
SO SRCGROUP ERSN W2 ERSN W2
   SRCGROUP ERSN W3 ERSN W3
SO SRCGROUP ERSN W4 ERSN W4
SO SRCGROUP ERSN W5 ERSN W5
                                                                                           TRLPIT2
                                                                                                      TRLPIT3
                                                                                                                TRLPIT4
                                                            DRLPIT5
                                                                      BLSPIT1
                                                                                 TRLPIT1
                                       DRLPIT3
                                                  DRLPIT4
SO SRCGROUP PIT I DRLPITI
                             DRLPIT2
                                                                                                      TRU_WST1
                                                                                           CONVEY
                                                                      HAUL 5
                                                                                 BGHSE1
                                                                                                                TRU WST2
                             HAUL_1
                                                  HAUL 3
                                                            HAITL 4
SO SRCGROUP PIT_1 TRLPIT5
                                       HAUL 2
                                                                                                      ERSN W1
                                                                                                                ERSN W2
                                                                      DZG_W3
   SRCGROUP PIT 1 TRU WST3
                             TRU WST4
                                       TRU WST5
                                                  DZG W1
                                                            DZG_W2
                                                                                 DZG_W4
                                                                                           DZG_W5
SO
   SRCGROUP PIT 1 ERSN W3
                             ERSN W4
                                       ERSN W5
SO
SO SRCGROUP PIT_2 DRLPIT1
                                                                      BLSPIT2
                                                                                 TRLPIT1
                                                                                           TRLPIT2
                                                                                                      TRLPIT3
                                                                                                                TRLPIT4
                             DRLPĪT2
                                       DRLPĪT3
                                                  DRLPIT4
                                                            DRLPIT5
                                                                                           CONVEY
                                                                                                      TRU WST1
                                                                                                                TRU WST2
                                                                      HAUL 5
                                                                                 BGHSE1
SO SRCGROUP PIT_2 TRLPIT5
                             HAUL 1
                                       HAUL_2
                                                  HAUL 3
                                                            HAUL 4
                                                                      DZG W3
                                                                                           DZG W5
                                                                                                      ERSN W1
                                                                                                                ERSN W2
                                       TRU_WST5
                                                            DZG_W2
                                                                                 DZG_W4
SO SRCGROUP PIT 2 TRU WST3
                             TRU_WST4
                                                  DZG_W1
   SRCGROUP PIT 2 ERSN W3
                             ERSN W4
                                       ERSN W5
                                                                                           TRI.PTT1
                                                                                                      TRLPIT2
                                                                                                                TRLPIT3
                                                                      DRI.PIT6
                                                                                 BLSPIT3
SO SRCGROUP PIT 3 DRLPIT1
                             DRLPĪT2
                                       DRLPIT3
                                                  DRLPIT4
                                                            DRLPIT5
                                                                                                      HAUL 6
SO SRCGROUP PIT 3 TRLPIT4
SO SRCGROUP PIT 3 CONVEY
                                                                                                                BGBSE1
                                                                       HAUL 3
                                                                                 HAUL 4
                                                                                           HAUL 5
                             TRLPIT5
                                       TRLPIT6
                                                  HAUL 1
                                                            HAUL 2
                                                  TRU WST3
                                                            TRU WST4
                                                                      TRU WST5
                                                                                 DZG_W1
                                                                                            DZG W2
                                                                                                      DZG W3
                                                                                                                DZG W4
                             TRU WST1
                                       TRU WST2
                                       ERSN W2
                                                            ERSN W4
                                                                      ERSN W5
SO SRCGROUP PIT_3 DZG_W5
                                                  ERSN W3
                             ERSN W1
                                                                                 BLSPIT4
                                                                                           TRI.PTT1
                                                                                                      TRLPIT2
                                                                                                                TRLPIT3
                                                                      DRI.PIT6
                                                            DRLPIT5
SO SRCGROUP PIT 4 DRLPIT1
                             DRLPIT2
                                       DRLPIT3
                                                  DRLPIT4
                                                                                           HAUL 5
                                                                                                      HAUL 6
                                                                                                                BGHSE1
                                                                       HAUL 3
                                                                                 HAIII. 4
SO SRCGROUP PIT 4 TRLPIT4
                             TRLPIT5
                                       TRLPIT6
                                                  HAUL 1
                                                            HAUL 2
                                                                                           DZG_W2
                                                                                                                DZG_W4
                                                                      TRU WST5
                                                                                 DZG_W1
                                                                                                      DZG W3
SO SRCGROUP PIT 4 CONVEY
                             TRU WST1
                                       TRU WST2
                                                  TRU WST3
                                                            TRU WST4
                                                  ERSN W3
                                                            ERSÑ W4
                                                                       ERSN W5
SO SRCGROUP PIT 4 DZG W5
                             ERSN W1
                                       ERSN W2
                             DRLPIT2
                                       DRLPITS
                                                  DRLPIT4
                                                            DRLPIT5
                                                                       DRLPIT6
                                                                                 BLSPIT5
                                                                                            TRLPIT1
                                                                                                      TRLPIT2
                                                                                                                TRLPITS
SO SRCGROUP PIT_5 DRLPIT1
                                                                                                                BGESE1
                                                                       HAUL 3
                                                                                 HAUL 4
                                                                                           HAUL 5
                                                                                                      HAUL 6
SO SRCGROUP PIT 5 TRLPIT4
                             TRLPIT5
                                       TRLPIT6
                                                  HAUL 1
                                                            HAITL 2
                                                                                 DZG_W1
                                                                       TRU WST5
                                                                                           DZG WZ
                                                                                                      DZG W3
                                                                                                                DZG W4
SO SRCGROUP PIT_5 CONVEY
                             TRU WST1
                                       TRU WST2
                                                  TRU WST3
                                                            TRU_WST4
   SRCGROUP PIT 5 DZG W5
                             ERSN W1
                                       ERSN W2
                                                  ERSN W3
                                                            ERSN W4
                                                                       ERSN W5
                                                                                                      TRLPIT6
                                                                                                                HAIII. 1
SO SRCGROUP PIT 6 DRLPIT3
                             DRLPIT4
                                       DRLPIT5
                                                  DRLPIT6
                                                            BLSPIT6
                                                                       TRLPIT3
                                                                                 TRLPIT4
                                                                                            TRLPIT5
                                                                                                                TRU_WST3
                                                                                 CONVEY
                                                                                            TRU_WST1
                                                                                                      TRU WST2
                             HAUL 3
                                                  HAUL 5
                                                            HAUL 6
                                                                       BGESE1
SO SRCGROUP PIT 6 HAUL 2
                                       HAUL 4
                                                  DZG_W2
                                                            DZG_W3
                                                                                 DZG_W5
                                                                                            ERSN W1
                                                                                                      ERSN W2
                                                                                                                ERSN W3
   SRCGROUP PIT_6 TRU_WST4
                             TRU WST5
                                       DZG W1
                                                                       DZG_W4
   SRCGROUP PIT 6 ERSN W4
                             ERSN W5
SO SRCGROUP DRILLING DRLPIT1
                                DRLPIT2
                                          DRLPIT3
                                                     DRLPIT4
                                                               DRLPIT5
                                                                         DRLPIT6
                                                                         TRLPIT6
SO SRCGROUP LOADING TRLPIT1
                               TRLPIT2
                                         TRLPIT3
                                                    TRLPIT4
                                                              TRLPIT5
                               HAUL 2
                                         HAUL 3
                                                              HAUL 5
                                                                         HAUL 6
SO SRCGROUP HAULING HAUL 1
                                                    HAIIT. 4
                                                    TRU WST4
                                                              TRU WST5
   SRCGROUP UNLOADG TRU WST1
                              TRU WST2
                                         TRU_WST3
   SRCGROUP DOZING DZG W1
                            DZG W2
                                      DZG W3
                                                 DZG W4
                                                             DZG W5
                                                   ERSN_W4
SO SRCGROUP EROSION ERSN W1
                             ERSN W2
                                         ERSN W3
                                                              ersn ws
SO FINISHED
RE STARTING
RE ELEVUNIT FEET
RE DISCCART 389750 3871670 2840
RE DISCCART 389759 3871788 2850
RE DISCCART 389778 3871908 2850
RE DISCCART 389803 3872019 2850
RE DISCCART 389826 3872073 2850
RE DISCCART 389928 3872271 2850
RE DISCCART 390027 3872472 2850
RE DISCCART 390083 3872582 2835
RE DISCCART 390203 3872720 2830
RE DISCCART 390252 3872758 2830
RE DISCCART 390352 3872832 2820
RE DISCCART 390434 3872889 2820
RE DISCCART 390669 3872895 2820
RE DISCCART 390904 3872902 2820
RE DISCCART 391139 3872908 2820
RE DISCCART 391374 3872915 2820
RE DISCCART 391609 3872921 2810
RE DISCCART 391844 3872928 2790
RE DISCCART 391844 3872735 2850
RE DISCCART 391845 3872543 2900
RE DISCCART 391845 3872351 3000
RE DISCCART 391846 3872159 3175
RE DISCCART 392046 3872165 3100
RE DISCCART 392246 3872172 2975
RE DISCCART 392446 3872178 2825
RE DISCCART 392647 3872185 2860
RE DISCCART 392658 3871975 3090
RE DISCCART 392670 3871765 2900
RE DISCCART 392682 3871555 2925
RE DISCCART 392694 3871346 2950
RE DISCCART 392887 3871350 3000
RE DISCCART 393080 3871355 2950
RE DISCCART 393273 3871360 2875
```

RE DISCCART 393467 3871365 3025
RE DISCCART 393467 3871139 3000
RE DISCCART 393467 3870914 3000
RE DISCCART 393467 3870689 2760
RE DISCCART 393252 3870689 3020
RE DISCCART 392822 3870689 3110
RE DISCCART 392607 3870689 3140
RE DISCCART 392392 3870689 3500
RE DISCCART 392392 3870689 3500
RE DISCCART 392178 3870689 3120

RE DISCCART 392178 3870521 3020
RE DISCCART 392010 3870521 3180
RE DISCCART 391842 3870521 3120
RE DISCCART 391643 3870520 3060
RE DISCCART 391445 3870519 3030
7,121, 00,0310 0100
RE DISCCART 391044 3870310 3300
RE DISCCART 391040 3870103 3140
RE DISCCART 391036 3869895 2980
RE DISCCART 391032 3869688 3120
RE DISCCART 390827 3869681 3000
RE DISCCART 390623 3869674 2920
RE DISCCART 390419 3869667 2910
77 7700000 0000000000000000000000000000
RE DISCCART 390213 3870070 2930
RE DISCCART 390212 3870275 2920
RE DISCCART 390212 3870480 2880
RE DISCCART 390211 3870677 2870
RE DISCCART 390210 3870875 2860
RE DISCCART 390209 3871072 2860
RE DISCCART 390209 3871270 2870
RE DISCCART 390039 3871272 2840
RE DISCCART 389725 3871473 2840
RE DISCCART 391000 3869500 3070
RE DISCCART 391250 3869500 3140
RE DISCCART 391500 3869500 2880
RE DISCCART 391750 3869500 2730
RE DISCCART 392000 3869500 2710
RE DISCCART 392250 3869500 2700
RE DISCCART 392500 3869500 2690
77 77000
77 77 77 77 77 77 77 77 77 77 77 77 77
77 7500000 000000 00000
RE DISCCART 391250 3869750 2890
RE DISCCART 391500 3869750 2790
RE DISCCART 391750 3869750 2760
RE DISCCART 392000 3869750 2770
RE DISCCART 392250 3869750 2760
RE DISCCART 392500 3869750 2760
RE DISCCART 392750 3869750 2800
RE DISCCART 393000 3869750 2840
RE DISCCART 393250 3869750 2720
RE DISCCART 393500 3869750 2700
RE DISCCART 391250 3870000 3010
RE DISCCART 391500 3870000 2880
RE DISCCART 391750 3870000 2810
RE DISCCART 392000 3870000 2860
RE DISCCART 392250 3870000 2940
RE DISCCART 392500 3870000 2850
RE DISCCART 392750 3870000 3040
RE DISCCART 393500 3870000 2760
RE DISCCART 391250 3870250 3140
RE DISCCART 391500 3870250 2910
RE DISCCART 391750 3870250 2910
RE DISCCART 392000 3870250 2960
RE DISCCART 392250 3870250 2940
RE DISCCART 392500 3870250 2990
RE DISCCART 392750 3870250 3180
RE DISCCART 393000 3870250 2980
RE DISCCART 391750 3870500 3040
RE DISCCART 392000 3870500 3240
RE DISCCART 392250 3870500 3100
RE DISCCART 392500 3870500 3280
RE DISCCART 392750 3870500 3380
RE DISCCART 393000 3870500 3100
RE DISCCART 393250 3870500 2880
RE DISCCART 393500 3870500 2820
RE DISCCART 393500 3870750 2840
RE DISCCART 393500 3871000 3050
RE DISCCART 386000 3867500 2840
RE DISCCART 386000 3867500 2840

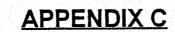
RE	DISCCART	387500	3867500	2810
RE	DISCCART	388000	3867500	2800
RE	DISCCART	388500	3867500	2790
RE	DISCCART	389000	3867500	2770
RE	DISCCART	389500	3867500	2750
RE	DISCCART	390000	3867500	2740
RE	DISCCART	390500	3867500	2730
RE	DISCCART	391000	3867500	2710
RE	DISCCART	391500	3867500	2690
RE	DISCCART	392000	3867500	2670
RE	DISCCART	392500	3867500	2650
RE	DISCCART	393000	3867500	2630
RE	DISCCART	393500	3867500	2600
RE	DISCCART	394000	3867500	2590
RE	DISCCART	394500	3867500	2580
RE	DISCCART	395000	3867500	2560
RE	DISCCART	386000	3868000	2860
RE	DISCCART	386500	3868000	2860
RE	DISCCART	387000	3868000	2860
RE	DISCCART	387500	3868000	2840
RE	DISCCART	388000	3868000	2820
RE	DISCCART	388500	3868000	2800
RE	DISCCART	389000	3868000	2780
RE	DISCCART	389500	3868000	2770
RE	DISCCART	390000	3868000	2750
RE	DISCCART	390500	3868000	2740
RE	DISCCART	391000	3868000	2720
RE	DISCCART	391500	3868000	2700
RE	DISCCART	392000	3868000	2680
RE	DISCCART	392500	3868000	2660
RE	DISCCART	393000	3868000	2630
RE	DISCCART	393500	3868000	2610
RE	DISCCART	394000	3868000	2590
RE	DISCCART	394500	3868000	2580
RE	DISCCART	395000	3868000	2560
RE	DISCCART	386000	3868500	2880
RE	DISCCART	386500	3868500	2880
RE	DISCCART	387000	3868500	2870
RE	DISCCART	387500	3868500	2860
RE	DISCCART	388000	3868500	2850
RE	DISCCART	388500	3868500	2820
RE	DISCCART	389000	3868500	2800
RE	DISCCART	389500	3868500	2780
RE	DISCCART	390000	3868500	2770
RE	DISCCART	390500	3868500	2740
RE	DISCCART	391000	3868500	2730
RE	DISCCART	391500	3868500	2710
RE	DISCCART	392000	3868500	2680
RE	DISCCART	392500	3868500	2660
RE	DISCCART	393000	3868500	2620
RE	DISCCART	393500	3868500	2600
RE	DISCCART	394000	3868500	2590
RE	DISCCART	394500	3868500	2580
RE	DISCCART	395000	3868500	2565
RE	DISCCART	386000	3869000	2910
RE	DISCCART	386500	3869000	2900
RE		387000	3869000	2890
RE		387500	3869000	2880
RE		388000	3869000	2865
RE		388500	3869000	2840
RE		389000	3869000	2820
RE		389500	3869000	2800
RE		390000	3869000	2820
RE		390500	3869000	2960
RE		391000	3869000	2880
RE		391500	3869000	2720
RE		392000	3869000	2680
RE		392500	3869000	2650
RE		393000	3869000	2620
RE		393500		2600
RE		394000		2590
RE		394500		2580
RE		395000		2570
RE		386000		
RE		386500		
RE		387000		
RE				
RE				
RE		388500		
RE				
RE RE				
RE				
K.	. DISCORT	5,0500	5557500	2000

	RE	DISCCART	394000	3869500	2590
		DISCCART			
	RE	DISCCART	387000	3870000	2930
	RE	DISCCART	387500	3870000	2900
	RE	DISCCART	388000	3870000	2880
		DISCCART			
	RE	DISCCART	389000	3870000	2840
	RE	DISCCART	389500	3870000	2820
	RE	DISCCART	390000	3870000	2900
		DISCCART			
		DISCCART			
		DISCCART			
	RE	DISCCART	386000	3870500	2970
		DISCCART			
	RE	DISCCART	387000	3870500	2950
	RE	DISCCART	387500	3870500	2910
	RE	DISCCART	388000	3870500	2880
		DISCCART			
		DISCCART			
	RE	DISCCART	389500	3870500	2820
	RE	DISCCART	390000	3870500	2850
	RE	DISCCART	394000	3870500	2720
	RE	DISCCART	394500	3870500	2670
		DISCCART			
		DISCCART			
	RE	DISCCART	386500	3871000	2970
	RE	DISCCART	387000	3871000	2940
		DISCCART			
		DISCCART			
		DISCCART			
	RE	DISCCART	389000	3871000	2820
	RE	DISCCART	389500	3871000	2840
	RF	DISCCART	390000	3871000	2840
		DISCCART			
	RF	DISCCART	394500	3871000	2604
	RE	DISCCART	395000	3871000	2500
	PF.	DISCCART	385000	3871500	2000
	RF	DISCCART	384500	3871500	2000
	Dr.	DISCCART	387000	30/1300	2060
		DISCCART			
	DE	DISCCART DISCCART	300500	30/1500	7AT0
	Dr.	DISCCART	200000	30/1300	2000
		DISCCART			
	D.L.	DISCCART	333500	30/1300	2740
		DISCCART			
		DISCCART			
	ᅚ	DISCCART	374300	30/1300	2610
	T.	DISCCART	373000	36/1500	2600
	KE.	DISCCART	386000	38/2000	3020
	KE DE	DISCCART	386500	3872000	3000
		DISCCART			
		DISCCART			
	RE	DISCCART	388000	3872000	2920
	RE	DISCCART	388500	3872000	2900
	RE	DISCCART	389000	3872000	2880
	RE	DISCCART	389500	3872000	2860
	RE	DISCCART	393000	3872000	2760
	RE	DISCCART	393500	3872000	2690
	RE	DISCCART	394000	3872000	2650
	RE	DISCCART	394500	3872000	2630
	RE	DISCCART	395000	3872000	2610
	RE	DISCCART	386000	3872500	3040
	RE	DISCCART	386500	3872500	3020
	RE	DISCCART	387000	3872500	2990
	RE	DISCCART	387500	3872500	2960
	RE	DISCCART	388000	3872500	2940
	RE	DISCCART	388500	3872500	2910
	ŔE	DISCCART	389000	3872500	2880
	RE	DISCCART	389500	3872500	2860
		DISCCART			
:	2 2 2	DISCCART	232000	3872500	2070
;	DE.	DISCUSSE	303500	2072500	2220
:	DE. VE	DISCCART	303000	3072500	2010
:	nc nc	DISCCART	373000	38/2500	2/20
		DISCCART			
		DISCCART			
		DISCCART			
	RE	DISCCART	395000	3872500	2610
	RE	DISCCART	386000	3873000	3060
1	RE	DISCCART	386500	3873000	3040

RE DISCCART 387000 3873000 3010 RE DISCCART 387500 3873000 2980 RE DISCCART 388000 3873000 2950 RE DISCCART 388500 3873000 2920 RE DISCCART 389000 3873000 2900 RE DISCCART 389500 3873000 2870 RE DISCCART 390000 3873000 2845 RE DISCCART 390500 3873000 2820 RE DISCCART 391000 3873000 2810 RE DISCCART 391500 3873000 2800 RE DISCCART 392000 3873000 2760 RE DISCCART 392500 3873000 2740 RE DISCCART 393000 3873000 2710 RE DISCCART 393500 3873000 2680 RE DISCCART 394000 3873000 2660 RE DISCCART 394500 3873000 2640 RE DISCCART 395000 3873000 2620 RE DISCCART 386000 3873500 3080 RE DISCCART 386500 3873500 3050 RE DISCCART 387000 3873500 3020 RE DISCCART 387500 3873500 2990 RE DISCCART 388000 3873500 2960 RE DISCCART 388500 3873500 2930 RE DISCCART 389000 3873500 2900 RE DISCCART 389500 3873500 2880 RE DISCCART 390000 3873500 2850 RE DISCCART 390500 3873500 2830 RE DISCCART 391000 3873500 2800 RE DISCCART 391500 3873500 2780 RE DISCCART 392000 3873500 2750 RE DISCCART 392500 3873500 2760 RE DISCCART 393000 3873500 2720 RE DISCCART 393500 3873500 2680 RE DISCCART 394000 3873500 2700 RE DISCCART 394500 3873500 2640 RE DISCCART 395000 3873500 2620 RE DISCCART 388000 3874000 2980 RE DISCCART 388000 3874500 2980 RE DISCCART 388000 3875000 2990 RE DISCCART 388500 3874000 2940 RE DISCCART 388500 3874500 2950 RE DISCCART 388500 3875000 2960 RE DISCCART 389000 3874000 2910 RE DISCCART 389000 3874500 2920 RE DISCCART 389000 3875000 2920 RE DISCCART 389500 3874000 2880 RE DISCCART 389500 3874500 2890 RE DISCCART 389500 3875000 2900 RE DISCCART 390000 3874000 2860 RE DISCCART 390000 3874500 2860 RE DISCCART 390000 3875000 2865 RE DISCCART 390500 3874000 2830 RE DISCCART 390500 3874500 2840 RE DISCCART 390500 3875000 2840 RE DISCCART 391000 3874000 2800 RE DISCCART 391000 3874500 2810 RE DISCCART 391000 3875000 2810 RE DISCCART 391500 3874000 2780 RE DISCCART 391500 3874500 2780 RE DISCCART 391500 3875000 2780 RE DISCCART 392000 3874000 2770 RE DISCCART 392000 3874500 2760 RE DISCCART 392000 3875000 2760 RE DISCCART 392500 3874000 2760 RE DISCCART 392500 3874500 2780 RE DISCCART 392500 3875000 2740 RE DISCCART 393000 3874000 2900 RE DISCCART 393000 3874500 2900 RE DISCCART 393000 3875000 2730 RE DISCCART 393500 3874000 2800 RE DISCCART 393500 3874500 2700 RE DISCCART 393500 3875000 2700 RE DISCCART 394000 3874000 2650 RE DISCCART 394000 3874500 2660 RE DISCCART 394000 3875000 2680 RE FINISHED ME STARTING ME INPUTFIL g: METDATA SOL SOL 91M. ASC ME ANEMHGHT 10.0000 ME SURFDATA 98765 1991 ME UAIRDATA 24128 1991 WINNEMUCCA, NV 40.900 117.800

ME STARTEND 91 1 1 91 12 31

```
ME WDROTATE 180,0000
ME WINDPROF A 0.07 0.07 0.07 0.07 0.07
ME WINDPROF B 0.07 0.07 0.07 0.07 0.07 0.07
ME WINDPROF C 0.1 0.1 0.1 0.1 0.1 0.1
ME WINDPROF D 0.15 0.15 0.15 0.15 0.15
ME WINDPROF E 0.35 0.35 0.35 0.35 0.35
ME WINDFROF F 0.55 0.55 0.55 0.55 0.55
ME DTHETADZ A 0 0 0 0 0 0
ME DIHETADZ B 0 0 0 0 0 0
ME DTHETADZ C 0 0 0 0 0 0
ME DIFFERENCE D O O O O O
ME DIHETADZ E 0.02 0.02 0.02 0.02 0.02 0.02
ME DTHETADZ F 0.035 0.035 0.035 0.035 0.035
ME FINISHED
OU STARTING
OU RECTABLE 24 FIRST
OU MAXTABLE 24 50
OU PLOTFILE 24 ALL FIRST G: *BEEST GOOFENCE GRF 30
OU PLOTFILE 24 DRLPIT1 FIRST G: *BEEST*GQ*FENCE.GRF 30
OU PLOTFILE 24 DRLPIT2 FIRST G: **BEEST**GO**FENCE GRF 30
OU PLOTFILE 24 DRLPIT3 FIRST G: @BEEST@GO@FENCE.GRF 30
OU PLOTFILE 24 DRLPIT4 FIRST G: **BEEST**GQ**FENCE.GRF 30
OU PLOTFILE 24 DRLPIT5 FIRST G: BEEST GOFFENCE GRF 30
OU PLOTFILE 24 DRLPIT6 FIRST G: BEEST GOFFENCE GRF 30
OU PLOTFILE 24 BLSPIT1 FIRST G: *BEEST*GQ*FENCE.GRF 30
OU PLOTFILE 24 BLSPIT2 FIRST G: **BEEST **GQ **FENCE.GRF 30
OU PLOTFILE 24 BLSPIT3 FIRST G: *BEEST*GQ*FENCE.GRF 30
OU PLOTFILE 24 BLSPIT4 FIRST G: **BEEST**GQ**FENCE.GRF 30
OU PLOTFILE 24 BLSPIT5 FIRST G: BEEST GQ FENCE. GRF 30
OU PLOTFILE 24 BLSPIT6 FIRST G: BEEST GOFFENCE GRF 30
OU PLOTFILE 24 TRLFIT1 FIRST G: *BEEST *GQ *FENCE GRF 30
OU PLOTFILE 24 TRLPIT2 FIRST G: *BEEST GOOFENCE.GRF 30
OU PLOTFILE 24 TRLPIT3 FIRST G: **BEEST**GQ**FENCE.GRF 30
OU PLOTFILE 24 TRLPIT4 FIRST G: *BEEST GOFFENCE.GRF 30
OU PLOTFILE 24 TRLPIT5 FIRST G: BEEST GOFFENCE GRF 30
OU PLOTFILE 24 TRLPIT6 FIRST G: *BEEST GOOFENCE GRF 30
OU PLOTFILE 24 HAUL_1 FIRST G: **BEEST**GQ**FENCE.GRF 30
OU PLOTFILE 24 HAUL 2 FIRST G: *BEEST*GQ*FENCE.GRF 30
OU PLOTFILE 24 HAUL 3 FIRST G: *BEEST GO FENCE GRF 30
OU PLOTFILE 24 HAUL 4 FIRST G: **BEEST**GQ**FENCE.GRF 30 OU PLOTFILE 24 HAUL 5 FIRST G: **BEEST**GQ**FENCE.GRF 30
OU PLOTFILE 24 HAUL 6 FIRST G: *BEEST GOFFENCE.GRF 30
OU PLOTFILE 24 BGHSE1 FIRST G: **BEEST**GQ**FENCE.GRF 30
OU PLOTFILE 24 TRU_WST1 FIRST G: *BEEST GQ FENCE.GRF 30
OU PLOTFILE 24 TRU WST2 FIRST G: *BEEST GOFFENCE.GRF 30
OU PLOTFILE 24 TRU WST3 FIRST G: BEEST GOFFENCE. GRF 30
OU PLOTFILE 24 TRU_WST4 FIRST G: **BEEST**GQ**FENCE.GRF 30
OU PLOTFILE 24 TRU WST5 FIRST G: BEEST GOFFENCE.GRF 30
OU PLOTFILE 24 DZG W1 FIRST G: *BEEST*GQ*FENCE.GRF 30
OU PLOTFILE 24 DZG_W2 FIRST G: *BEEST*GQ*FENCE.GRF 30 OU PLOTFILE 24 DZG_W3 FIRST G: *BEEST*GQ*FENCE.GRF 30
OU PLOTFILE 24 DZG_W4 FIRST G: **BEEST**GQ**FENCE.GRF 30
OU PLOTFILE 24 DZG W5 FIRST G: **BEEST**GQ**FENCE.GRF 30
OU PLOTFILE 24 ERSN W1 FIRST G: *BEEST*GO*FENCE.GRF 30
OU PLOTFILE 24 ERSN W2 FIRST G: BEEEST GOFFENCE GRF 30
OU PLOTFILE 24 ERSN W3 FIRST G: BEEEST GOFFENCE.GRF 30
OU FLOTFILE 24 ERSN_W4 FIRST G: DEEST GOFENCE.GRF 30
OU PLOTFILE 24 ERSN W5 FIRST G: BEEST GOFFENCE GRF 30
OU PLOTFILE 24 PIT 1 FIRST G: *BEEST*GQ*FENCE.GRF 30
OU PLOTFILE 24 PIT 2 FIRST G: **BEEST**GO**FENCE.GRF 30 OU PLOTFILE 24 PIT 3 FIRST G: **BEEST**GO**FENCE.GRF 30
OU PLOTFILE 24 PIT_4 FIRST G: **BEEST**GQ**FENCE.GRF 30
OU PLOTFILE 24 PIT_5 FIRST G: BEEST GQ FENCE.GRF 30
OU PLOTFILE 24 PIT 6 FIRST G: BEEST GO FENCE GRF 30
OU PLOTFILE 24 DRILLING FIRST G: *BEEST*GQ*FENCE.GRF 30
OU PLOTFILE 24 LOADING FIRST G: *BEEST *GQ *FENCE.GRF 30
OU PLOTFILE 24 HAULING FIRST G: BEEST GOFFENCE.GRF 30
OU PLOTFILE 24 UNLOADG FIRST G: *BEEST GOFFENCE.GRF 30
OU PLOTFILE 24 DOZING FIRST G: *BEEST*GO*FENCE.GRF 30
OU PLOTFILE 24 EROSION FIRST G: BEEST GQ FENCE.GRF 30
OU FINISHED
```



```
Date: 11/13/96 Time: 11:01:36 AM
NO ECHO
CO STARTING
CO TITLEONE GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT
CO TITLETWO PM10 Analysis - 1991 Met - 6 MMTPY Hourly Average
CO MODELOPT CONC RURAL MSGPRO
CO AVERTIME 1 PERIOD
CO POLLUTID PM-10
CO TERREGIS ELEV
CO RUNORNOT RUN
CO FINISHED
SO STARTING
SO ELEVUNIT METERS
SO LOCATION DRLPIT1 AREA 390138.00 3872375.00 960.1200
SO SRCPARAM DRLPIT1 1 2.0000 400.00 250.00 45.00 .00
SO LOCATION DRLPIT2 AREA 390421.00 3872091.00 975.3600
SO SRCPARAM DRLPIT2 1 2.0000 400.00 250.00 45.00 .00
SO LOCATION DRLPIT3 AREA 390876.00 3871798.00 1036.2000
SO SRCPARAM DRLPIT3 1 2.0000 1100.00 350.00 .00 .00
SO LOCATION DRLPIT4 AREA 390640.00 3871432.00 1097.2800
SO SRCPARAM DRLPIT4 1 2.0000 1350.00 350.00 .00 .00
SO LOCATION DRLFIT5 AREA 391200.00 3871050.00 1097.2800
SO SRCPARAM DRLPITS 1 2.0000 400.00 380.00 .00 .00
SO LOCATION DRLPIT6 AREA 390800.00 3871050.00 1097.2800
SO SRCPARAM DRLPIT6 1 2,0000 400,00 380,00 .00 .00
SO LOCATION BLSPIT1 VOLUME 390300 3872374 960.1200
SO SRCPARAM BLSPIT1 1.0 50.0000 93.0233 23.2558
SO LOCATION BLSPIT2 VOLUME 390553 3872050 975.3600
SO SRCPARAM BLSPIT2 1.0 50.0000 93.0233 23.2558
SO LOCATION BLSPIT3 VOLUME 391726.00 3871973.00 1127.7600
SO SRCPARAM BLSPIT3 1.0 50.0000 93.0233 23.2558
SO LOCATION BLSPIT4 VOLUME 391015.00 3871607.00 1097.2800
SO SRCPARAM BLSPIT4 1.0 50.0000 93.0233 23.2558
SO LOCATION BLSPIT5 VOLUME 391400 3871240 1097.2800
SO SRCPARAM BLSPIT5 1.0 50.0000 93.0233 23.2558
SO LOCATION BLSPIT6 VOLUME 391000 3871240 1097.2800
SO SRCPARAM BLSPIT6 1.0 50.0000 93.0233 23.2558
SO LOCATION TRLFIT1 AREA 390138.00 3872375.00 960.1200
SO SRCPARAM TRLPIT1 1 6.0000 400.00 250.00 45.00 .00
SO LOCATION TRLPIT2 AREA 390421.00 3872091.00 975.3600
SO SRCPARAM TRLPITZ 1 6.0000 400.00 250.00 45.00 .00
SO LOCATION TRLPIT3 AREA 390876.00 3871798.00 1036.2000
SO SRCPARAM TRLPIT3 1 6.0000 1100.00 350.00 .00 .00
SO LOCATION TRLFIT4 AREA 390640.00 3871432.00 1097.2800
SO SRCPARAM TRLPIT4 1 6.0000 1350.00 350.00 .00 .00
SO LOCATION TRLPITS AREA 391200.00 3871050.00 1097.2800
SO SRCPARAM TRLPIT5 1 6.0000 400.00 380.00 .00 .00
SO LOCATION TRLPIT6 AREA 390800.00 3871050.00 1097.2800
SO SRCPARAM TRLPIT6 1 6.0000 400.00 380.00 .00 .00
SO LOCATION HAUL 1 AREA 390138.00 3872375.00 960.1200
SO SRCPARAM HAUL_1 1 2.0000 400.00 62.5 45.00 .00
SO LOCATION HAUL_2 AREA 390421.00 3872091.00 975.3600
SO SRCPARAM HAUL 2 1 2.0000 400.00 62.5 45.00 .00
SO LOCATION HAUL_3 AREA 390876.00 3871973 1036.2000
SO SRCPARAM HAUL 3 1 2.0000 1100.00 87.5 .00 .00
SO LOCATION HAUL 4 AREA 390640.00 3871607 1097.2800
SO SRCPARAM HAUL 4 1 2.0000 1350.00 87.5 .00 .00
SO LOCATION HAUL 5 AREA 391200.00 3871240 1097.2800
SO SRCPARAM HAUL_5 1 2.0000 400.00 95 .00 .00
SO LOCATION HAUL_6 AREA 390800.00 3871240 1097.2800
SO SRCPARAM HAUL 6 1 2.0000 400.00 95 .00 .00
SO LOCATION BGHSE1 POINT 390660.00 3872330.00 908.3000
SO SRCPARAM BGESE1 1.0 6.7100 305.0000 21.5330 1.0000
SO LOCATION TRU WST1 AREA 390273 3871355 975.36
SO SRCPARAM TRU WST1 1 2.0000 375 575 -5.00 .00
SO LOCATION TRU_WST2 AREA 390364 3870483 1066.8
SO SRCPARAM TRU WST2 1 2.0000 525 825 -10 .00
SO LOCATION TRU WST3 AREA 390885 3870573 1127.76
SO SRCPARAM TRU WST3 1 2.0000 300.00 457 .00 .00
SO LOCATION TRU WST4 AREA 391190 3870573 1127.76
SO SRCPARAM TRU WST4 1 2.0000 550.00 467 .00 .00
SO LOCATION TRU_WST5 AREA 392143 3871161 1005.84
SO SRCPARAM TRU_WST5 1 2.0000 545 925 -10 .00
SO LOCATION DZG W1 AREA 390273 3871355 975.36
SO SRCPARAM DZG W1 1 4.0000 375 575 -5.0 .00
SO LOCATION DZG_W2 AREA 390364 3870483 1066.8
```

\*\*BEE-Line Software: BEEST for Windows data input file

```
SO SRCPARAM DZG W2 1 4.0000 525 825 -10.00 .00
SO LOCATION DZG_W3 AREA 390885 3870573 1127.76
SO SRCPARAM DZG_W3 1 4.0000 300 457 .00 .00
SO LOCATION DZG_W4 AREA 391190 3870573 1127.76
SO SRCPARAM DZG W4 1 4,0000 550 467 .00 .00
SO LOCATION DZG WS AREA 392143 3871161 1005.84
SO SRCPARAM DZG WS 1 4.0000 545 925 -10.00 .00
SO LOCATION ERSN_W1 AREA 390273 3871355 975.36
SO SRCPARAM ERSN W1 1 5 375 575 -5.00 .00
SO LOCATION ERSN W2 AREA 390364 3870483 1066.8
SO SRCPARAM ERSN W2 1 5 525 825 -10.00 .00
SO LOCATION ERSN_W3 AREA 390885 3870573 1127.76
SO SRCPARAM ERSN_W3 1 5 300 457 .00 .00
SO LOCATION ERSN_W4 AREA 391190 3870573 1127.76
SO SRCPARAM ERSN_W4 1 5 550 467 .00 .00
SO LOCATION ERSN_W5 AREA 392143 3871161 1005.84
SO SRCPARAM ERSN W5 1 5 545 925 -10.00 .00
SO LOCATION ORE PAD1 AREA 390500 3872400 914.4
SO SRCPARAM ORE PAD1 1 0 1275 470 0
SO LOCATION ORE PAD2 AREA 389825 3871350 914.4
SO SRCPARAM ORE PAD2 1 0 375 875 5
SO LOCATION EGRETORT POINT 390810 3872320 908.30
SO SRCPARAM EGRETORT 1 5 400 2.1158 2.
SO LOCATION ADSORPT POINT 390810 3872340 908.3
SO SRCPARAM ADSORPT 1 5 298 2.12 2.
SO LOCATION FURNACE POINT 390860 3872340 908.3
SO SRCPARAM FURNACE 1.0 5 394 6.474 .18
SO LOCATION DSLTNK POINT 390920 3872340 908.3
SO SRCPARAM DSLTNK 1.0 2 298 1. .18
SO SRCGROUP DRLPIT1 DRLPIT1
SO SRCGROUP DRLPIT2 DRLPIT2
SO SRCGROUP DRLPIT3 DRLPIT3
SO SRCGROUP DRLPIT4 DRLPIT4
SO SRCGROUP DRLPIT5 DRLPIT5
SO SRCGROUP DRLPIT6 DRLPIT6
SO SRCGROUP BLSPIT1 BLSPIT1
SO SRCGROUP BLSPIT2 BLSPIT2
SO SRCGROUP BLSPIT3 BLSPIT3
SO SRCGROUP BLSPIT4 BLSPIT4
SO SRCGROUP BLSPIT5 BLSPIT5
SO SRCGROUP BLSPIT6 BLSPIT6
SO SRCGROUP TRLPIT1 TRLPIT1
SO SRCGROUP TRLPIT2 TRLPIT2
SO SRCGROUP TRLPIT3 TRLPIT3
SO SRCGROUP TRLPIT4 TRLPIT4
SO SRCGROUP TRLPIT5 TRLPIT5
SO SRCGROUP TRLPIT6 TRLPIT6
SO SRCGROUP HAUL 1 HAUL 1
SO SRCGROUP HAUL 2 HAUL 2
SO SRCGROUP HAUL 3 HAUL 3
SO SRCGROUP HAUL 4 HAUL 4
SO SRCGROUP HAUL 5 HAUL 5
SO SRCGROUP HAUL_6 HAUL_6
SO SRCGROUP BGHSE1 BGHSE1
SO SRCGROUP TRU_WST1 TRU_WST1
SO SRCGROUP TRU WST2 TRU WST2
SO SRCGROUP TRU WST3 TRU WST3
SO SRCGROUP TRU_WST4 TRU_WST4
SO SRCGROUP TRU_WST5 TRU_WST5
SO SRCGROUP DZG_W1 DZG_W1
SO SRCGROUP DZG W2 DZG W2
SO SRCGROUP DZG W3 DZG W3
SO SRCGROUP DZG_W4 DZG_W4
SO SRCGROUP DZG W5 DZG W5
SO SRCGROUP ERSN W1 ERSN W1
SO SRCGROUP ERSN W2 ERSN W2
SO SRCGROUP ERSN W3 ERSN W3
SO SRCGROUP ERSN_W4 ERSN_W4
SO SRCGROUP ERSN W5 ERSN W5
SO SRCGROUP ORE PAD1 ORE PAD1
SO SRCGROUP ORE PAD2 ORE PAD2
SO SRCGROUP EGRETORT EGRETORT
SO SRCGROUP ADSORPT ADSORPT
SO SRCGROUP FURNACE FURNACE
SO SRCGROUP DSLINK DSLINK
SO FINISHED
RE STARTING
```

RE ELEVUNIT FEET

RE DISCCART 389400 3868050 2760

RE DISCCART 392550 3868000 2650 RE DISCCART 392600 3868000 2650 RE DISCCART 390250 3868800 2760 RE DISCCART 390300 3868750 2760 RE DISCCART 390300 3868500 2760 RE DISCCART 393500 3868200 2610 RE DISCCART 393750 3868300 2600 RE DISCCART 393800 3868450 2590 RE DISCCART 389750 3870450 2820 RE DISCCART 395050 3870600 2590 RE DISCCART 392200 3872600 2840 RE DISCCART 390800 3873450 2810 RE DISCCART 390750 3873400 2810 RE DISCCART 390700 3873400 2820 RE DISCCART 390650 3873200 2820 RE DISCCART 393500 3873700 2710 RE DISCCART 392450 3873750 2740 RE DISCCART 391950 3873950 2760 RE DISCCART 391900 3873400 2780 RE DISCCART 389750 3871670 2840 RE DISCCART 389759 3871788 2850 RE DISCCART 389778 3871908 2850 RE DISCCART 389803 3872019 2850 RE DISCCART 389826 3872073 2850 RE DISCCART 389928 3872271 2850 RE DISCCART 390027 3872472 2850 RE DISCCART 390083 3872582 2835 RE DISCCART 390203 3872720 2830 RE DISCCART 390252 3872758 2830 RE DISCCART 390352 3872832 2820 RE DISCCART 390434 3872889 2820 RE DISCCART 390669 3872895 2820 RE DISCCART 390904 3872902 2820 RE DISCCART 391139 3872908 2820 RE DISCCART 391374 3872915 2820 RE DISCCART 391609 3872921 2810 RE DISCCART 391844 3872928 2790 RE DISCCART 391844 3872735 2850 RE DISCCART 391845 3872543 2900 RE DISCCART 391845 3872351 3000 RE DISCCART 391846 3872159 3175 RE DISCCART 392046 3872165 3100 RE DISCCART 392246 3872172 2975 RE DISCCART 392446 3872178 2825 RE DISCCART 392647 3872185 2860 RE DISCCART 392658 3871975 3090 RE DISCCART 392670 3871765 2900 RE DISCCART 392682 3871555 2925 RE DISCCART 392694 3871346 2950 RE DISCCART 392887 3871350 3000 RE DISCCART 393080 3871355 2950 RE DISCCART 393273 3871360 2875 RE DISCCART 393467 3871365 3025 RE DISCCART 393467 3871139 3000 RE DISCCART 393467 3870914 3000 RE DISCCART 393467 3870689 2760 RE DISCCART 393252 3870689 2830 RE DISCCART 393037 3870689 3020 RE DISCCART 392822 3870689 3110 RE DISCCART 392607 3870689 3440 RE DISCCART 392392 3870689 3500 RE DISCCART 392178 3870689 3120 RE DISCCART 392178 3870521 3020 RE DISCCART 392010 3870521 3180 RE DISCCART 391842 3870521 3120 RE DISCCART 391643 3870520 3060 RE DISCCART 391445 3870519 3030 RE DISCCART 391247 3870518 3180 RE DISCCART 391049 3870518 3120 RE DISCCART 391044 3870310 3300 RE DISCCART 391040 3870103 3140 RE DISCCART 391036 3869895 2980 RE DISCCART 391032 3869688 3120 RE DISCCART 390827 3869681 3000 RE DISCCART 390623 3869674 2920 RE DISCCART 390419 3869667 2910 RE DISCCART 390215 3869661 3000 RE DISCCART 390214 3869865 3020 RE DISCCART 390213 3870070 2930 RE DISCCART 390212 3870275 2920

RE	DISCCART	390212	3870480	2880
RE				
RE			3870875	
RE			3871072	2860
RE	DISCCART	390209	3871270	2870
RE	DISCCART	390039	3871272	2840
RE	DISCCART	389869	3871274	2840
RE	DISCCART			
		389700	3871276	2840
RE	DISCCARI	389725	3871473	2840
RE	DISCCART	391600	3870100	2840
RE	DISCCART	391700	3870100	2840
RE	DISCCART	391800	3870100	2850
RE	DISCCART	391900	3870100	2900
RE				
	DISCCART	392000	3870100	2900
RE	DISCCART	392100	3870100	2870
RE	DISCCART	392200	3870100	2900
RE	DISCCART	392300	3870100	2790
RE	DISCCART	392400	3870100	2900
RE	DISCCART	392500	3870100	2880
RE	DISCCART			
		392600	3870100	2960
RE	DISCCART	392700	3870100	3070
RE	DISCCART	391600	3870200	2860
RΕ	DISCCART	391700	3870200	2880
RE	DISCCART	391800	3870200	2890
RE	DISCCART	391900	3870200	2930
RE	DISCCART	392000	3870200	2920
RE	DISCCART	392100		
_			3870200	2910
RE	DISCCART	392200	3870200	2920
RE	DISCCART	392300	3870200	2940
RE	DISCCART	392400	3870200	2930
RE	DISCCART	392500	3870200	2950
RE	DISCCART	392600	3870200	2970
RE	DISCCART	392700	3870200	
				3120
RE	DISCCART	391600	3870300	2900
ŔĔ	DISCCART	391700	3870300	2920
RE	DISCCART	391800	3870300	2930
RE	DISCCART	391900	3870300	2960
RE	DISCCART	392000	3870300	3000
RE	DISCCART	392100		
			3870300	2960
RE	DISCCART	392200	3870300	2940
RE	DISCCART	392300	3870300	2980
RΕ	DISCCART	392400	3870300	2980
RE	DISCCART	392500	3870300	3020
RE	DISCCART	392600	3870300	3140
RE	DISCCART	392700	3870300	3170
RE	DISCCART	391600		
			3870400	2940
RE	DISCCART	391700	3870400	2950
RE	DISCCART	391800	3870400	2980
RΕ	DISCCART	391900	3870400	3060
RΕ	DISCCART	392000	3870400	3140
RE	DISCCART	392100	3870400	3020
RE	DISCCART	392200	3870400	2980
RE	DISCCART	392300	3870400	3040
RE	DISCCART	392400	3870400	3110
RΕ	DISCCART	392500	3870400	3280
RΕ	DISCCART	392600	3870400	3250
RE	DISCCART	392700	3870400	3260
RE	DISCCART	391600	3870500	3020
RE	DISCCART	391700		3040
			3870500	
RE	DISCCART	391800	3870500	3060
RΕ	DISCCART	391900	3870500	3200
RΕ	DISCCART	392000	3870500	3200
RE	DISCCART	392100	3870500	3060
RE	DISCCART	392200	3870500	3040
RE	DISCCART	392300	3870500	3140
RE	DISCCART			
		392400	3870500	3240
RE	DISCCART	392500	3870500	3320
RE	DISCCART	392600	3870500	3400
RΕ	DISCCART	392700	3870500	3400
RE	DISCCART	392200	3870600	3110
RE	DISCCART	392300	3870600	3280
RE	DISCCART	392400	3870600	
				3430
RE	DISCCART	392500	3870600	3130
RE	DISCCART	392600	3870600	3520
RE	DISCCART	392700	3870600	3390
RE	DISCCART	391000	3869500	3070
RE	DISCCART	391250	3869500	3140
RE	DISCCART	391500	3869500	2880
RE				
	DISCCART	391750	3869500	2730
RE	DISCCART	392000	3869500	2710

RE DISCCART 392250 3869500 2700 RE DISCCART 392500 3869500 2690 RE DISCCART 392750 3869500 2660 RE DISCCART 393000 3869500 2670 RE DISCCART 393250 3869500 2650 RE DISCCART 393500 3869500 2610 RE DISCCART 391250 3869750 2890 RE DISCCART 391500 3869750 2790 RE DISCCART 391750 3869750 2760 RE DISCCART 392000 3869750 2770 RE DISCCART 392250 3869750 2760 RE DISCCART 392500 3869750 2760 RE DISCCART 392750 3869750 2800 RE DISCCART 393000 3869750 2840 RE DISCCART 393250 3869750 2720 RE DISCCART 393500 3869750 2700 RE DISCCART 391250 3870000 3010 RE DISCCART 391500 3870000 2880 RE DISCCART 391750 3870000 2810 RE DISCCART 392000 3870000 2860 RE DISCCART 392250 3870000 2940 RE DISCCART 392500 3870000 2850 RE DISCCART 392750 3870000 3040 RE DISCCART 393000 3870000 2980 RE DISCCART 393250 3870000 2860 RE DISCCART 393500 3870000 2760 RE DISCCART 391250 3870250 3140 RE DISCCART 391500 3870250 2910 RE DISCCART 391750 3870250 2910 RE DISCCART 392000 3870250 2960 RE DISCCART 392250 3870250 2940 RE DISCCART 392500 3870250 2990 RE DISCCART 392750 3870250 3180 RE DISCCART 393000 3870250 2980 RE DISCCART 393250 3870250 3000 RE DISCCART 393500 3870250 2840 RE DISCCART 391250 3870500 3160 RE DISCCART 391500 3870500 3000 RE DISCCART 391750 3870500 3040 RE DISCCART 392250 3870500 3100 RE DISCCART 392750 3870500 3380 RE DISCCART 393000 3870500 3100 RE DISCCART 393250 3870500 2880 RE DISCCART 393500 3870500 2820 RE DISCCART 393500 3870750 2840 RE DISCCART 393500 3871000 3050 RE DISCCART 386000 3867500 2840 RE DISCCART 386500 3867500 2840 RE DISCCART 387000 3867500 2830 RE DISCCART 387500 3867500 2810 RE DISCCART 388000 3867500 2800 RE DISCCART 388500 3867500 2790 RE DISCCART 389000 3867500 2770 RE DISCCART 389500 3867500 2750 RE DISCCART 390000 3867500 2740 RE DISCCART 390500 3867500 2730 RE DISCCART 391000 3867500 2710 RE DISCCART 391500 3867500 2690 RE DISCCART 392000 3867500 2670 RE DISCCART 392500 3867500 2650 RE DISCCART 393000 3867500 2630 RE DISCCART 393500 3867500 2600 RE DISCCART 394000 3867500 2590 RE DISCCART 394500 3867500 2580 RE DISCCART 395000 3867500 2560 RE DISCCART 386000 3868000 2860 RE DISCCART 386500 3868000 2860 RE DISCCART 387000 3868000 2860 RE DISCCART 387500 3868000 2840 RE DISCCART 388000 3868000 2820 RE DISCCART 388500 3868000 2800 RE DISCCART 389000 3868000 2780 RE DISCCART 389500 3868000 2770 RE DISCCART 390000 3868000 2750 RE DISCCART 390500 3868000 2740 RE DISCCART 391000 3868000 2720 RE DISCCART 391500 3868000 2700 RE DISCCART 392000 3868000 2680 RE DISCCART 392500 3868000 2660 RE DISCCART 393000 3868000 2630

RE	DISCCART	393500	3868000	2610
RE	DISCCART		3868000	2590
RE			3868000	2580
RE				
			3868000	2560
RE			3868500	2880
RE			3868500	2880
RE	DISCCART	387000	3868500	2870
RE	DISCCART	387500	3868500	2860
RE	DISCCART	388000	3868500	2850
RE	DISCCART	388500	3868500	2820
RE	DISCCART	389000	3868500	2800
RE	DISCCART	389500	3868500	2780
RE	DISCCART	390000	3868500	2770
RE	DISCCART	390500	3868500	2740
RE	DISCCART	391000	3868500	2730
RE	DISCCART	391500	3868500	2710
RE	DISCCART	392000	3868500	2680
RE	DISCCART	392500	3868500	2660
RE	DISCCART	393000	3868500	2620
RE	DISCCART	393500	3868500	2600
RE	DISCCART	394000		
			3868500	2590
RE	DISCCART	394500	3868500	2580
RE	DISCCART	395000	3868500	2565
RE	DISCCART	386000	3869000	2910
RE	DISCCART	386500	3869000	2900
RE	DISCCART	387000	3869000	2890
RE	DISCCART	387500	3869000	2880
RE	DISCCART	388000	3869000	2865
RE	DISCCART	388500	3869000	
				2840
RE	DISCCART	389000	3869000	2820
RE	DISCCART	389500	3869000	2800
RE	DISCCART	390000	3869000	2820
RE	DISCCART	390500	3869000	2960
RE	DISCCART	391000	3869000	2880
RE	DISCCART	391500	3869000	2720
RE	DISCCART	392000	3869000	2680
RE	DISCCART	392500	3869000	2650
RE	DISCCART			
		393000	3869000	2620
RE	DISCCART	393500	3869000	2600
RE	DISCCART	394000	3869000	2590
RΕ	DISCCART	394500	3869000	2580
RE	DISCCART	395000	3869000	2570
RE	DISCCART	386000	3869500	2920
RE	DISCCART	386500	3869500	2920
RE	DISCCART	387000	3869500	2910
RE	DISCCART	387500	3869500	2890
RE	DISCCART	388000	3869500	2880
RE	DISCCART	388500	3869500	2860
RE	DISCCART	389000	3869500	2840
RE	DISCCART	389500	3869500	2800
RE	DISCCART	390000	3869500	3340
RE	DISCCART	390500	3869500	2850
RE	DISCCART	394000	3869500	2590
RE	DISCCART	394500	3869500	
RE				2580
	DISCCART	395000	3869500	2570
RE	DISCCART	386000	3870000	2940
RE	DISCCART	386500	3870000	2940
RE	DISCCART	387000	3870000	2930
RE	DISCCART	387500	3870000	2900
RE	DISCCART	388000	3870000	2880
RE	DISCCART	388500	3870000	2860
RE	DISCCART	389000	3870000	2840
RE	DISCCART	389500	3870000	
				2820
RE	DISCCART	390000	3870000	2900
RE	DISCCART	394000	3870000	2600
RE	DISCCART	394500	3870000	2590
RE	DISCCART	395000	3870000	2570
RE	DISCCART	386000	3870500	2970
RE	DISCCART	386500	3870500	2960
RE	DISCCART	387000	3870500	2950
RE	DISCCART	387500	3870500	2910
RE	DISCCART			
		388000	3870500	2880
RE	DISCCART	388500	3870500	2860
RE	DISCCART	389000	3870500	2840
RE	DISCCART	389500	3870500	2820
RE	DISCCART	390000	3870500	2850
RE	DISCCART	394000	3870500	2720
RE	DISCCART	394500	3870500	2670
RE	DISCCART	395000	3870500	2590
RE	DISCCART	386000	3871000	
عم	PIDOMAI	200000	2017000	2990

RE	DISC	CART	386500	3871000	2970
RE	DISC	CART	387000	3871000	2940
RE	DISC	CART	387500	3871000	2910
RE	DISC	CART	388000	3871000	2890
RE	DISC	CART	388500	3871000	2870
RE	DISC	CART	389000	3871000	2820
RE	DISC	CART	389500	3871000	2840
RE		CART	390000	3871000	2840
RE		CART	394000	3871000	2640
RE		CART	394500	3871000	2605
RE		CART	395000	3871000	2590
RE		CART	386000	3871500	3000
RE		CART	386500	3871500	2980
RE		CART	387000	3871500	2960
RE		CART	387500	3871500	2930
RE		CART	388000	3871500	2910
RE		CART	388500	3871500	2880
RE		CART	389000	3871500	2860
RE		CART	389500	3871500	2840
RE		CART	393000	3871500	2940
RE		CART	393500	3871500	2740
RE		CART	394000	3871500	2640
RE		CART	394500	3871500	2610
RE		CART	395000	3871500	2600
RE		CCART	386000	3872000	3020
RE		CCART	386500	3872000	3000
			387000	3872000	2970
RE		CCART		3872000	2940
RE		CCART	387500	3872000	2920
RE		CCART	388000	3872000	2900
RE		CCART	388500		2880
RE		CCART	389000	3872000	2860
RE		CCART	389500	3872000 3872000	2760
RE		CCART	393000		
RE		CCART	393500	3872000	2690
RE		CCART	394000	3872000	2650
RE		CCART	394500	3872000	2630
RE		CCART	395000	3872000	2610
RE		CCART	386000	3872500	3040
RE		CCART	386500	3872500	3020
RE		CCART	387000	3872500	2990
RE		CCART	387500		2960
RE		CCART	388000		2940
RE		CCART	388500		
RE		CCART	389000		
RE		CCART	389500		
RE		CCART			
RE		CCART			
RE		CCART			
RE	DIS	CCARI			
RE	DIS	CCART	393500	3872500	2680
RE	DIS	CCARI	394000	3872500	
RE	DIS	CCARI	394500		
RE		CCARI			
RE	DIS	CCARI	386000	3873000	
RE	DIS	CCARI	386500	3873000	3040
RE	DIS	CCARI	387000	3873000	3010
RE	DIS	CCARI	387500		
RE	DIS	CCARI	38800	3873000	2950
RE	DIS	CCARI	38850	3873000	2920
RE	DIS	CCARI	389000		
RE	DIS	CCART	38950	3873000	2870
RI	DIS	CCAR	39000	3873000	2845
RI	DIS	CCAR	39050	3873000	2820
RI	DIS	SCCAR	39100	3873000	2810
RI	DIS	SCCART	39150	3873000	2800
RI	DI	SCCAR!			2760
RI	E DIS	SCCAR:	39250	387300	2740
RI		SCCAR:			
RI		SCCAR!			
RI		SCCAR:			
R		SCCAR!	_		
R		SCCAR'			
R		SCCAR:			
R		SCCAR'	_		
R		SCCAR'			
R		SCCAR			
R		SCCAR			
R		SCCAR			
R		SCCAR			
R	_	SCCAR			
K		m	_ 50750		

```
RE DISCCART 390000 3873500 2850
RE DISCCART 390500 3873500 2830
RE DISCCART 391000 3873500 2800
RE DISCCART 391500 3873500 2780
RE DISCCART 392000 3873500 2750
RE DISCCART 392500 3873500 2760
RE DISCCART 393000 3873500 2720
RE DISCCART 393500 3873500 2680
RE DISCCART 394000 3873500 2700
RE DISCCART 394500 3873500 2640
RE DISCCART 395000 3873500 2620
RE DISCCART 388000 3874000 2980
RE DISCCART 388000 3874500 2980
RE DISCCART 388000 3875000 2990
RE DISCCART 388500 3874000 2940
RE DISCCART 388500 3874500 2950
RE DISCCART 388500 3875000 2960
RE DISCCART 389000 3874000 2910
RE DISCCART 389000 3874500 2920
RE DISCCART 389000 3875000 2920
RE DISCCART 389500 3874000 2880
RE DISCCART 389500 3874500 2890
RE DISCCART 389500 3875000 2900
RE DISCCART 390000 3874000 2860
RE DISCCART 390000 3874500 2860
RE DISCCART 390000 3875000 2865
RE DISCCART 390500 3874000 2830
RE DISCCART 390500 3874500 2840
RE DISCCART 390500 3875000 2840
RE DISCCART 391000 3874000 2800
RE DISCCART 391000 3874500 2810
RE DISCCART 391000 3875000 2810
RE DISCCART 391500 3874000 2780
RE DISCCART 391500 3874500 2780
RE DISCCART 391500 3875000 2780
RE DISCCART 392000 3874000 2770
RE DISCCART 392000 3874500 2760
RE DISCCART 392000 3875000 2760
RE DISCCART 392500 3874000 2760
RE DISCCART 392500 3874500 2780
RE DISCCART 392500 3875000 2740
RE DISCCART 393000 3874000 2900
RE DISCCART 393000 3874500 2900
RE DISCCART 393000 3875000 2730
RE DISCCART 393500 3874000 2800
RE DISCCART 393500 3874500 2700
RE DISCCART 393500 3875000 2700
RE DISCCART 394000 3874000 2650
RE DISCCART 394000 3874500 2660
RE DISCCART 394000 3875000 2680
RE FINISHED
ME STARTING
ME INPUTFIL g: SMETDATASSOLSSOL91M.ASC
ME ANEMHGHT 10.0000
ME SURFDATA 98765 1991
ME UAIRDATA 24128 1991 WINNEMUCCA, NV 40.900 117.800
ME STARTEND 91 1 1 91 12 31
ME WDROTATE 180.0000
ME WINDPROF A 0.07 0.07 0.07 0.07 0.07
ME WINDFROF B 0.07 0.07 0.07 0.07 0.07 0.07
ME WINDPROF C 0.1 0.1 0.1 0.1 0.1 0.1
ME WINDPROF D 0.15 0.15 0.15 0.15 0.15
ME WINDPROF E 0.35 0.35 0.35 0.35 0.35
ME WINDPROF F 0.55 0.55 0.55 0.55 0.55
ME DTHETADZ A O O O O O
ME DTHETADZ B O O O O O
ME DTHETADZ C 0 0 0 0 0 0
ME DTHETADZ D 0 0 0 0 0
ME DTHETADZ E 0.02 0.02 0.02 0.02 0.02 0.02
ME DTHETADZ F 0.035 0.035 0.035 0.035 0.035
ME FINISHED
OU STARTING
OU RECTABLE 1 FIRST
OU POSTFILE 1 DRLPIT1 UNFORM G: *BEEST*GQ*GQHRA.PST 20
OU POSTFILE 1 DRLPIT2 UNFORM G: SEEEST GOGGORA. PST 20
OU POSTFILE 1 DRLPIT3 UNFORM G: @BEEST@GQ@GQHRA.PST 20
OU POSTFILE 1 DRLPIT4 UNFORM G: *BEEST GOGGOERA. PST 20
OU POSTFILE 1 DRLPITS UNFORM G: BEEST GO GOHRA. PST 20
```

```
OU POSTFILE 1 DRLPIT6 UNFORM G: *BEEST GO GOHRA. PST 20
OU POSTFILE 1 BLSPIT1 UNFORM G: *BEEST*GO*GOHRA.PST 20
OU POSTFILE 1 BLSPIT2 UNFORM G: DEEEST GOOGQHRA. PST 20
OU POSTFILE 1 BLSPIT3 UNFORM G: BEEST GOGGOERA. PST 20
OU POSTFILE 1 BLSPIT4 UNFORM G: *BEEEST*GQ*GQHRA.PST 20
OU POSTFILE 1 BLSPITS UNFORM G: *BEEST*GO*GOHRA.PST 20
OU POSTFILE 1 BLSPIT6 UNFORM G: BEEST GQ GGHRA. PST 20
OU POSTFILE 1 TRLPIT1 UNFORM G: *BEEST*GQ*GQHRA.PST 20
OU POSTFILE 1 TRLPIT2 UNFORM G: *BEEST *GQ *GQHRA.PST 20
OU POSTFILE 1 TRLPIT3 UNFORM G: **BEEST**GQ**GQHRA.PST 20
OU POSTFILE 1 TRLPIT4 UNFORM G: *BEEST*GQ*GQHRA.PST 20
OU POSTFILE 1 TRLPITS UNFORM G: *BEEST*GO*GOHRA.PST 20
OU POSTFILE 1 TRLPIT6 UNFORM G: *BEEST*GQ*GQHRA.PST 20
OU POSTFILE 1 HAUL 1 UNFORM G: *BEEST*GQ*GQHRA.PST 20
OU POSTFILE 1 HAUL 2 UNFORM G: *BEEST GOGGERA. PST 20
OU POSTFILE 1 HAUL 3 UNFORM G: **BEEST**GQ**GQHRA.PST 20 OU POSTFILE 1 HAUL 4 UNFORM G: **BEEST**GQ**GQHRA.PST 20
OU POSTFILE 1 HAUL_5 UNFORM G: **BEEST**GQ**GQHRA.PST 20
OU POSTFILE 1 HAUL_6 UNFORM G: *BEEST GOGGERA.PST 20
OU POSTFILE 1 BGHSE1 UNFORM G: BEEST GOGGHRA. PST 20
OU POSTFILE 1 TRU WST1 UNFORM G: @BEEST@GQ@GQHRA.PST 20
OU POSTFILE 1 TRU WST2 UNFORM G: *BEEST GQ GQHRA. PST 20
OU POSTFILE 1 TRU WST3 UNFORM G: @BEEST@GQ@GQHRA.PST 20
OU POSTFILE 1 TRU WST4 UNFORM G: *BEEST*GO*GOHRA. PST 20
OU POSTFILE 1 TRU WST5 UNFORM G: BEEST GOGGOERA. PST 20
OU POSTFILE 1 DZG_W1 UNFORM G: BEEEST GQ GQHRA.PST 20
OU POSTFILE 1 DZG W2 UNFORM G: BEEST GQ GGHRA. PST 20
OU POSTFILE 1 DZG W3 UNFORM G: *BEEST*GQ*GQHRA.PST 20
OU POSTFILE 1 DZG W4 UNFORM G: *BEEST*GQ*GQHRA.PST 20
OU POSTFILE 1 DZG_W5 UNFORM G: *BEEST GQ GQHRA.PST 20
OU POSTFILE 1 ERSN_W1 UNFORM G: BEEST GOGGERA. PST 20
OU POSTFILE 1 ERSN W2 UNFORM G: *BEEST GQ GGHRA. PST 20
OU POSTFILE 1 ERSN W3 UNFORM G: BEEST GQ GQHRA. PST 20
OU POSTFILE 1 ERSN W4 UNFORM G: *BEEST GQ GGHRA. PST 20
OU POSTFILE 1 ERSN_W5 UNFORM G: BEEEST GQ GGHRA. PST 20
OU POSTFILE 1 ORE FAD1 UNFORM G: *BEEST GQ GQHRA.PST 20
OU POSTFILE 1 ORE PAD2 UNFORM G: *BEEST GQ GGHRA. PST 20
OU POSTFILE 1 HGRETORT UNFORM G: **BEEST**GO**GOHRA.PST 20
OU POSTFILE 1 ADSORPT UNFORM G: *BEEST *GQ *GQHRA.PST 20
OU POSTFILE 1 FURNACE UNFORM G: *BEEST*GQ*GQHRA.PST 20
OU POSTFILE 1 DSLTNK UNFORM G: *BEEST*GQ*GQHRA.PST 20
OU POSTFILE PERIOD DRLPIT1 UNFORM G: *BEEST*GQ*GQHRA.PST 20
OU POSTFILE PERIOD DRLPIT2 UNFORM G: *BEEST GGGGGERA. PST 20
OU POSTFILE PERIOD DRLPIT3 UNFORM G: **BEEST**GQ**GQHRA.PST 20
OU POSTFILE PERIOD DRLPIT4 UNFORM G: **BEEST**GQ**GQHRA.PST 20 OU POSTFILE PERIOD DRLPIT5 UNFORM G: **BEEST**GQ**GQHRA.PST 20
OU POSTFILE PERIOD DRLPIT6 UNFORM G: **BEEST GQ GGHRA. PST 20
OU POSTFILE PERIOD BLSPIT1 UNFORM G: **BEEST**GQ**GQHRA. PST 20
OU POSTFILE PERIOD BLSPIT2 UNFORM G: **BEEST**GQ**GQHRA.PST 20
OU POSTFILE PERIOD BLSPIT3 UNFORM G: *BEEST GQ GQHRA.PST 20
OU POSTFILE PERIOD BLSPIT4 UNFORM G: **BEEST**GQ**GQHRA.PST 20
OU POSTFILE PERIOD BLSPITS UNFORM G: *BEEST*GQ*GQHRA.PST 20
OU POSTFILE PERIOD BLSPIT6 UNFORM G: BEEST GOGGHRA. PST 20
OU POSTFILE PERIOD TRLPIT1 UNFORM G: **BEEST**GQ**GQHRA.PST 20
OU POSTFILE PERIOD TRLPIT2 UNFORM G: **BEEST**GQ**GQHRA.PST 20
OU POSTFILE PERIOD TRLPIT3 UNFORM G: *BEEST *GQ *GQHRA.PST 20
OU POSTFILE PERIOD TRLPIT4 UNFORM G: **BEEST**GQ**GQHRA.PST 20
OU POSTFILE PERIOD TRLPITS UNFORM G: BEEST GO GOERA. PST 20
OU POSTFILE PERIOD TRLPIT6 UNFORM G: **BEEST**GQ**GQHRA.PST 20
OU POSTFILE PERIOD HAUL 1 UNFORM G: **BEEST**GQ**GQHRA.PST 20 OU POSTFILE PERIOD HAUL 2 UNFORM G: **BEEST**GQ**GQHRA.PST 20
OU POSTFILE PERIOD HAUL 3 UNFORM G: **BEEST**GQ**GQHRA.PST 20
OU POSTFILE PERIOD HAUL 4 UNFORM G: **BEEST**GQ**GQHRA.PST 20
OU POSTFILE PERIOD HAUL 5 UNFORM G: **BEEST**GQ**GQHRA.PST 20
OU POSTFILE PERIOD HAUL 6 UNFORM G: *BEEST GQ GQHRA.PST 20
OU POSTFILE PERIOD BGHSE1 UNFORM G: *BEEST*GQ*GQHRA.PST 20
OU POSTFILE PERIOD TRU WST1 UNFORM G: *BEEST*GQ*GQHRA.PST 20
OU POSTFILE PERIOD TRU WST2 UNFORM G: *BEEST GOGGHRA. PST 20
OU POSTFILE PERIOD TRU_WST3 UNFORM G: **BEEST**GQ**GQHRA.PST 20
OU POSTFILE PERIOD TRU_WST4 UNFORM G: **BEEST**GQ**GQHRA.PST 20
OU POSTFILE PERIOD TRU WST5 UNFORM G: *BEEEST GOGGHRA. PST 20
OU POSTFILE PERIOD DZG W1 UNFORM G: BEEST GQ GQHRA. PST 20
OU POSTFILE PERIOD DZG_W2 UNFORM G: BEEST GQ GQHRA. PST 20
 OU POSTFILE PERIOD DZG_W3 UNFORM G: *BEEST*GQ*GQHRA.PST 20
OU POSTFILE PERIOD DZG_W4 UNFORM G: BEEST GQ GQHRA.PST 20
 OU POSTFILE PERIOD DZG W5 UNFORM G: *BEEST GQ GGHRA.PST 20
 OU POSTFILE PERIOD ERSN_W1 UNFORM G: *BEEST*GQ*GQHRA.PST 20
 OU POSTFILE PERIOD ERSN_W2 UNFORM G: **BEEST**GQ**GQERA.PST 20
 OU POSTFILE PERIOD ERSN_W3 UNFORM G: *BEEST*GQ*GQHRA.PST 20
 OU POSTFILE PERIOD ERSN W4 UNFORM G: *BEEST *GQ *GQHRA. PST 20
```

```
OU POSTFILE PERIOD ERSN_W5 UNFORM G: **BEEST**GQ**GQHRA.PST 20
 OU POSTFILE PERIOD ORE PAD1 UNFORM G: DEEEST GQ GQHRA. PST 20
 OU POSTFILE PERIOD ORE PAD2 UNFORM G: *BEEST*GQ*GQHRA.PST 20
 OU POSTFILE PERIOD EGRETORT UNFORM G: BEEST GO GOHRA PST 20
 OU POSTFILE PERIOD ADSORPT UNFORM G: DEEEST GQ GQHRA. PST 20
 OU POSTFILE PERIOD FURNACE UNFORM G: *BEEST*GQ*GQHRA.PST 20
 OU POSTFILE PERIOD DSLTNK UNFORM G: *BEEST*GQ*GQHRA.PST 20
 OU PLOTFILE 1 DRLPIT1 FIRST G: BEEST GQ GQ HRA.GRF 30
 OU PLOTFILE PERIOD DRLPIT1 G: BEEEST GOGGOHRA.GRF 30
OU PLOTFILE 1 DRLPIT2 FIRST G: BEEST GQ GQHRA.GRF 30
 OU PLOTFILE PERIOD DRLPITZ G: BEEST GOOGOHRA.GRF 30
 OU PLOTFILE 1 DRLPIT3 FIRST G: *BEEST*GQ*GQHRA.GRF 30
OU PLOTFILE PERIOD DRLPIT3 G: **BEEST**GQ**GQHRA.GRF 30
OU PLOTFILE 1 DRLPIT4 FIRST G: BEEST GOGGOHRA.GRF 30
OU PLOTFILE PERIOD DRLPIT4 G: BEEST GOGGORA. GRF 30
OU PLOTFILE 1 DRLPIT5 FIRST G: BEEST GOGGOHRA.GRF 30
OU FLOTFILE PERIOD DRLPIT5 G: *BEEEST*GQ*GQHRA.GRF 30
OU PLOTFILE 1 DRLPIT6 FIRST G: **BEEST**GQ**GQHRA.GRF 30
OU PLOTFILE PERIOD DRLPIT6 G: BEEST GOOGOHRA.GRF 30
OU PLOTFILE 1 BLSPIT1 FIRST G: BEEST GQ GQHRA.GRF 30
OU PLOTFILE PERIOD BLSPIT1 G: BEEEST GQ GQHRA.GRF 30
OU FLOTFILE 1 BLSPIT2 FIRST G: BEEST GOGGERA.GRF 30
OU PLOTFILE PERIOD BLSPIT2 G: BEEEST GQ GQ HRA.GRF 30
OU PLOTFILE 1 BLSPIT3 FIRST G: BEEST GQ GQ HRA.GRF 30
OU PLOTFILE PERIOD BLSPIT3 G: BEEEST GOOGOHRA. GRF 30
OU PLOTFILE 1 BLSPIT4 FIRST G: *BEEST *GQ *GQHRA.GRF 30
OU FLOTFILE PERIOD BLSPIT4 G: BEESTOGOOGOBRA.GRF 30
OU PLOTFILE 1 BLSPIT5 FIRST G: BEEST GOGGHRA.GRF 30
OU PLOTFILE PERIOD BLSPIT5 G: *BEEST *GQ *GQ HRA.GRF 30
OU PLOTFILE 1 BLSPIT6 FIRST G: *BEEST*GQ*GQHRA.GRF 30
OU PLOTFILE PERIOD BLSPIT6 G: *BEEST*GQ*GQHRA.GRF 30
OU PLOTFILE 1 TRLPIT1 FIRST G: BEEST GQ GQHRA.GRF 30
OU PLOTFILE PERIOD TRLPIT1 G: **BEEST**GQ**GQHRA.GRF 30
OU PLOTFILE 1 TRLPIT2 FIRST G: **BEEST**GQ**GQHRA.GRF 30
OU PLOTFILE PERIOD TRLPIT2 G: SEEESTSGOSGOHRA.GRF 30
OU PLOTFILE 1 TRLPIT3 FIRST G: BEEST GOSGOHRA. GRF 30
OU PLOTFILE PERIOD TRLPIT3 G: BEEST GQ GQHRA.GRF 30
OU PLOTFILE 1 TRLPIT4 FIRST G: **BEEEST**GQ**GQHRA.GRF 30
OU PLOTFILE PERIOD TRLPIT4 G: BEEST GQ GQHRA.GRF 30
OU PLOTFILE 1 TRLPITS FIRST G: *BEEST GQ GQHRA.GRF 30
OU PLOTFILE PERIOD TRLPITS G: *BEEST*GQ*GQHRA.GRF 30
OU PLOTFILE 1 TRLPIT6 FIRST G: BEEST GOGGHRA.GRF 30
OU PLOTFILE PERIOD TRLPIT6 G: *BEEST*GQ*GQHRA.GRF 30
OU PLOTFILE 1 HAUL_1 FIRST G: **BEEST**GQ**GQHRA.GRF 30
OU PLOTFILE PERIOD HAUL 1 G: BEEST GQ GGHRA. GRF 30
OU PLOTFILE 1 HAUL 2 FIRST G: *BEEST**GQ**GQHRA.GRF 30
OU PLOTFILE PERIOD HAUL 2 G: BEEST GOOGOHRA GRF 30
OU FLOTFILE 1 HAUL 3 FIRST G: *BEEST GQ GQ HRA.GRF 30
OU PLOTFILE PERIOD HAUL 3 G: **BEEST**GQ**GQHRA.GRF 30
OU PLOTFILE 1 HAUL 4 FIRST G: *BEEST GQ GQHRA.GRF 30
OU PLOTFILE PERIOD HAUL 4 G: BEEST GOOGOHRA GRF 30
OU PLOTFILE 1 HAUL 5 FIRST G: SBEEST GOGGORA.GRF 30
OU PLOTFILE PERIOD HAUL_5 G: *BEEST*GQ*GQHRA.GRF 30
OU PLOTFILE 1 HAUL_6 FIRST G: **BEEST**GQ**GQHRA.GRF 30
OU PLOTFILE PERIOD HAUL 6 G: *BEEST*GO*GOHRA.GRF 30
OU PLOTFILE 1 BGHSE1 FIRST G: **BEEST**GQ**GQHRA.GRF 30
OU PLOTFILE PERIOD BGHSE1 G: *BEEST*GQ*GQHRA.GRF 30
OU PLOTFILE 1 TRU_WST1 FIRST G: **BEEST**GQ**GQHRA.GRF 30
OU PLOTFILE PERIOD TRU WST1 G: *BEEST*GO*GOHRA.GRF 30
OU PLOTFILE 1 TRU WST2 FIRST G: *BEEST*GQ*GQHRA.GRF 30
OU PLOTFILE PERIOD TRU WST2 G: BEEST GO GOHRA GRF 30
OU PLOTFILE 1 TRU WST3 FIRST G: BEEEST GQ GQHRA.GRF 30
OU PLOTFILE PERIOD TRU_WST3 G: **BEEST**GQ**GQHRA.GRF 30
OU PLOTFILE 1 TRU WST4 FIRST G: *BEEST*GQ*GQHRA.GRF 30
OU PLOTFILE PERIOD TRU WST4 G: BEEST GOGGORA. GRF 30
OU PLOTFILE 1 TRU_WST5 FIRST G: BEEST GQ GQHRA.GRF 30
OU PLOTFILE PERIOD TRU WST5 G: BEEEST GQ GQHRA.GRF 30
OU PLOTFILE 1 DZG_W1 FIRST G: **BEEST**GQ**GQHRA.GRF 30
OU PLOTFILE PERIOD DZG W1 G: BEEST GOOGOHRA.GRF 30
OU PLOTFILE 1 DZG_WZ FIRST G: BEESTOGOOGOHRA.GRF 30
OU PLOTFILE PERIOD DZG_W2 G: BEEST GOGGOERA.GRF 30
OU PLOTFILE 1 DZG W3 FIRST G: BEEST GQ GQ HRA GRF 30
OU PLOTFILE PERIOD DZG_W3 G: BEEEST GQ GQHRA.GRF 30
OU PLOTFILE 1 DZG_W4 FIRST G: BEEST GQ GQHRA.GRF 30
OU PLOTFILE PERIOD DZG_W4 G: **BEEST**GQ**GQHRA.GRF 30
OU PLOTFILE 1 DZG_W5 FIRST G: BEEST GQ GQ HRA.GRF 30
OU PLOTFILE PERIOD DZG_W5 G: BEEST GQ GQHRA.GRF 30
OU PLOTFILE 1 ERSN W1 FIRST G: BEEST GOGGOHRA. GRF 30
OU PLOTFILE PERIOD ERSN W1 G: **BEEST**GO**GOHRA.GRF 30
OU PLOTFILE 1 ERSN W2 FIRST G: BEEEST GOGGOHRA.GRF 30
```

```
OU PLOTFILE PERIOD ERSN W2 G: *BEEST*GQ*GQHRA.GRF 30
OU PLOTFILE 1 ERSN_W3 FIRST G: *BEEST *GQ *GQ HRA.GRF 30
OU PLOTFILE PERIOD ERSN W3 G: *BEEST *GQ *GQ HRA.GRF 30
OU PLOTFILE 1 ERSN W4 FIRST G: BEEST GO GOHRA.GRF 30
OU PLOTFILE PERIOD ERSN W4 G: **BEEST**GQ**GQHRA.GRF 30
OU PLOTFILE 1 ERSN W5 FIRST G: **BEEST**GQ**GQHRA.GRF 30 OU PLOTFILE PERIOD ERSN W5 G: **BEEST**GQ**GQHRA.GRF 30
OU PLOTFILE 1 ORE_PAD1 FIRST G: BEEST GQ GQ HRA.GRF 30
OU PLOTFILE PERIOD ORE PAD1 G: *BEEST*GQ*GQHRA.GRF 30
OU PLOTFILE 1 ORE PAD2 FIRST G: *BEEST GOGGGERA.GRF 30
OU PLOTFILE PERIOD ORE PAD2 G: ***BEEST***GQ**GQHRA.GRF 30 OU PLOTFILE 1 HGRETORT FIRST G: ***BEEST***GQ**GQHRA.GRF 30
OU PLOTFILE PERIOD EGRETORT G: **BEEST**GQ**GQHRA.GRF 30
OU PLOTFILE 1 ADSORPT FIRST G: **BEEST**GQ**GQHRA.GRF 30
OU PLOTFILE PERIOD ADSORPT G: SBEEST GQ GQ GRA.GRF 30
OU PLOTFILE 1 FURNACE FIRST G: BEEST GQ GQHRA.GRF 30
OU PLOTFILE PERIOD FURNACE G: *BEEST *GQ *GQHRA.GRF 30
OU PLOTFILE 1 DSLTNK FIRST G: *BEEST *GQ *GQHRA.GRF 30
OU PLOTFILE PERIOD DSLTNK G: *BEEST *GQ *GQHRA.GRF 30
OU FINISHED
```



## Golden Queen Mining

# Sample Collection and Analysis Summary

outcrops while the overburden material samples were collected from samples of retained drill cuttings which were stored types of ore material at the site were collected for chemical analysis. The ore material samples were collected from rock on-site. All samples were collected in canvas bags and the bags labeled with a water proof marker. The samples were Nevada, for analysis. The samples were analyzed for both total (TTLC) and soluable (STLC) concentrations of CAM 17 A total of four samples representing the types of overburden material at the site and three samples representing the then delivered to either McClelland Laboratories, of Sparks, Nevada, or Sierra Environmental Monitoring of Reno, Metals. The laboratory analytical results are summarized as follows:

	Basi	Basis for	Golden Queen Onsite Sampling RESuits	en Unsite s	sampiing Ki	Salts			
	Golden	Golden Queen	Rhyolite	Siliceous	OT-3	RT-1	RT-2	RT-3	RT-4
	Ore	Waste	ш.	Pyroclastic					
18540299 Cr 6	5.00E-07	5.00E-07							
7439976 Ha	1.14E-06	3.25E-06	4.30E-07	2.10E-06	9.00E-07	6.90E-06	1.00E-06	9.00E-07	4.20E-06
	1.53E-07	1.88E-07	4.70E-08	1.25E-08	4.00E-07	5.00E-07	1.00E-07	5.00E-08	1.00E-07
	4.36E-05	8.53E-05	3.50E-07	5.20E-07	1.30E-04	7.50E-05	1.40E-04	5.00E-05	7.60E-05
7440417 Be	5.14E-05	3.13E-07	7.40E-05	8.00E-05	2.50E-07	2.50E-07	2.50E-07	5.00E-07	2.50E-07
	1.53E-06	3.08E-06	2.50E-07	1.25E-07	4.20E-06	2.80E-06	5.50E-06	1.50E-06	2.50E-06
7440508 Cu	3.77E-06	7.15E-06	3.20E-06	3.80E-06	4.30E-06	1.00E-05	6.00E-06	5.80E-06	6.80E-06
	2.97E-05	1.30E-05	2.50E-05	3.20E-06	6.10E-05	8.30E-06	5.50E-06	3.30E-05	5.30E-06
7440020 Ni	2.60E-06	2.28E-06	3.20E-06	1.60E-06	3.00E-06	3.50E-06	1.00E-06	1.00E-06	3.60E-06
7439965 Mn	7.83E-05	7.83E-05							
7440666 Zn	5.73E-06	1.09E-05	6.20E-06	2.00E-06	9.00E-06	1.10E-05	8.20E-06	1.60E-05	8.50E-06

	Minimum	1	9.00E-07	5.00E-08	5.00E-05	2.50E-07	1.50E-06	5.80E-06	5.30E-06	1.00E-06	8.20E-06
WASTE	Maximum N	!	3.25E-06 6.90E-06	5.00E-07	1.40E-04	5.00E-07	5.50E-06	1.00E-05	3.30E-05	3.60E-06	I.09E-05 1.60E-05
	Average		3.25E-06	1.88E-07	8,53E-05	3.13E-07	3.08E-06	7.15E-06	1.30E-05	2.28E-06	1.09E-05
•	Minimum		4.30E-07	1.25E-08	3.50E-07	2.50E-07	1.25E-07	3.20E-06	3,20E-06	1.60E-06	2.00E-06
ORE	Maximum		2.10E-06	4.00E-07	1.30E-04	8.00E-05	4.20E-06	4.30E-06	6.10E-05	3.20E-06	9.00E-06
	Average		1.14E-06	1.53E-07	4.36E-05	5.14E-05	1.53E-06	3.77E-06	2,97E-05	2.60E-06	5.73E-06
		18540299 Cr 6	7439976 Ho	7782492 Se	7440382 As	7440417 Be	7440439 Cd	7440508 Cu	7439921 Pb	7440020 Ni	7439965 Mn 7440666 Zn

### Golden Queen Mining

### CONSTITUENT CONCENTRATIONS COMPARED

		CACTUS	CACTUS STD HILL
	RAND		
		Blasthole	Crusher
	LAB TEST		
18540299 Cr 6 *	2.50E-07 +	5.00E-07 +	5.00E-07 2.00E-08
7439976 Hg *	1.00E-08	1.38E-06	6.50E-06 2.10E-07
7782492 Se *	1.40E-07	9.00E-07 +	2.50E-07 5.00E-08
7440382 As	1.14E-03	1.65E-03	2.14E-03 1.20E-05
7440417 Be *	1.80E-07 +	2.50E-07	1.09E-06 4.00E-07
7440439 Cd	1.70E-07	4.10E-06	8.38E-06 2.10E-07
7440508 Cu	3.14E-05	9.90E-06	3.67E-05 2.20E-06
7439921 Pb	1.88E-05	3.96E-05	4.05E-05 1.20E-05
7440020 Ni	2.29E-05 +	1.25E-06	5.29E-06 2.00E-06
7439965 Mn	2.50E-04	1.02E-05	7.83E-05 5.95E-04
7440666 Zn	7.36E-05	1.95E-05	2.22E-05 8.50E-05
1175 Sio2	1.21E-01	1.04E-01	8.87E-02 8.60E-02

<sup>+ 50%</sup> detection limit

				`					
	Basi	is for	Golden Qu	een Onsite S	Sampling RE	Esults			
	Golden	Queen		Siliceous	OT-3	RT-1	RT-2	RT-3	RT-4
	Ore	Waste		Pyroclastic					
18540299 Cr 6	5.00E-07	5.00E-07							
7439976 Hg	1.14E-06	3.25E-06	4.30E-07	2.10E-06	9.00E-07	6.90E-06	1.00E-06	9.00E-07	4.20E-06
7782492 Se	1.53E-07	1.88E-07	4.70E-08	1.25E-08	4.00E-07	5.00E-07	1.00E-07	5.00E-08	1.00E-07
7440382 As	4.36E-05	8.53E-05	3.50E-07	5.20E-07	1.30E-04	7.50E-05	1.40E-04	5.00E-05	7.60E-05
7440417 Be	5.14E-05	3.13E-07	7.40E-05	8.00E-05	2.50E-07	2.50E-07	2.50E-07	5.00E-07	2.50E-07
7440439 Cd	1.53E-06	3.08E-06	2.50E-07	1.25E-07	4.20E-06	2.80E-06	5.50E-06	1,50E-06	2.50E-06
7440508 Cu	3.77E-06	7.15E-06	3.20E-06	3.80E-06	4.30E-06	1.00E-05	6.00E-06	5.80E-06	6.80E-06
7439921 Pb	2.97E-05	1.30E-05	2.50E-05	3.20E-06	6.10E-05	8.30E-06	5.50E-06	3.30E-05	5.30E-06
7440020 Ni	2.60E-06	2.28E-06	3.20E-06	1.60E-06	3.00E-06	3.50E-06	1.00E-06	1.00E-06	3.60E-06
7439965 Mn	7.83E-05	7.83E-05							-1,732 00
7440666 Zn	5.73E-06	1.09E-05	6.20E-06	2.00E-06	9.00E-06	1.10E-05	8.20E-06	1.60E-05	8.50E-06
		ORE		_		WASTE			

		ORE			WASTE	
	Average	Maximum	Minimum	Average	Maximum	Minimum
18540299 Cr 6				•		
7439976 Hg	1.14E-06	2.10E-06	4.30E-07	3.25E-06	6.90E-06	9.00E-07
7782492 Se	1.53E-07	4.00E-07	1.25E-08	1.88E-07	5.00E-07	5.00E-08
7440382 As	4.36E-05	1.30E-04	3.50E-07	8.53E-05	1.40E-04	5.00E-05
7440417 Be	5.14E-05	8.00E-05	2.50E-07	3.13E-07	5.00E-07	2.50E-07
7440439 Cd	1.53E-06	4.20E-06	1.25E-07	3.08E-06	5.50E-06	1.50E-06
7440508 Cu	3.77E-06	4.30E-06	3.20E-06	7.15E-06	1.00E-05	5.80E-06
7439921 Pb	2.97E-05	6.10E-05	3.20E-06	1.30E-05	3.30E-05	5.30E-06
7440020 Ni	2.60E-06	3.20E-06	1.60E-06	2.28E-06	3.60E-06	1.00E-06
7439965 Mn						
7440666 Zn	5.73E-06	9.00E-06	2.00E-06	1.09E <b>-</b> 05	1.60E-05	8.20E-06

Date:

GOLDEN QUEEN MINING CO., INC.

8052566526

P.O. BOX 878, ROSAMOND, CA 93560-0878

FAX

0733.0010 Number of pages including cover sheet:

To: / Phone: Fax phone: CC:

From: LYNNE D. ROSINSKI, Admin. Phone: (805) 256-0120 Fax phone: (805) 256-6526

REMARKS: Urgent For your review Reply ASAP Please comment
This is the seport on the text results per our
consensation earlier Today. Please give Edo
I a call & let us know if this work is
sufficient
Thanks)
Lynne

### Laboratory Analysis Report PRELIMINARY REPORT

COLDEN QUEEN NINE A. WAGGONER-WII P.O. BOX 878 ROSAMUND, CA 93560



Sierra Environmental Monitoring, Inc.

Date : 8/24/95 Client : GOM-001

Taken by: A. WAGGONTR-WZI

Report : 13961 20# : 257

Semple	Coilected Deta Time	AMTIMONY ICP MG/L	ARSENIC AA HYDRIDE MG/L	BARIUM ICP NG/L	BERTLLIUM ICP MG/L	CADMIUM ICP NG/L	CHRONIUM ICP HG/L
GG-RT-1 - STLC	8/03/95 :	4.:	0.41	2.3	- <0.01	₹2,21	2.25
GG-RT-1 - TTLC	8/03/95 :	5.3 us/s	75ug/g	67 ye/g	40.5 ug/g	2.8 ug/g	110 ug/g
GE-RT-2 - STLC	8/03/95 :	<0.1	3.7	3.1	0.02	0.14	3.1
99-KT-2 - TTLC	8/03/95 :	6.5 09/9	140ug/g	140 ug/g	<0.5 ug/g	5.5 vg/g	
GQ-RT-3 - STLC	8/03/95 :	<0.1	0.23	2.4	40.01	<0_01	120- ug/g 0_34
CE-RI-3 - TTLC	8/03/ <del>95</del> :	و/وس که	50us/a	82 ug/g	0.5 ug/g	T.S us/a	
CE-RT-4 - STLC	8/03/95 :	<0.1	0.60	4.3	0.02	0.02	72 us/g
CR-87-4 - TTLC	8/03/ <del>95</del> :	6.7 52/9	76ug/g	180 ug/g	<0.5 ug/g	2.5 49/9	3.6
99-07-3 - STLC	8/03/95 ;	40.1	2.4	2.4	<0.01	0.06	130 44/9
המ-סד-3 - הדנכ	3/03/95 :	7.5 ug/g	130ug/g	66 US/S	<0.5 ug/s	4.2 ug/g	0.53 130 ug/g
		COBALT	COPPER,	LEAD	MERCURY	MCLYBOENLM	MICEL
_	Callected	ICP	I C	100	AA CELE VAPOR		102
Sample	Oate Time	MG/L	MG/L	· MG/L	NG/L	HG/L	MG/L
22-21-1 - STLC	8/03/95 :	0.23	0.23	0.17	<0.005	-0.1	0.20
GR-RT-1 - TTLC	8/03/95 :	1_0 ug/g	10 ug/g	8.3 ug/g	6.949/4	<25 ug/g	3.5 ug/g
CH-RT-2 - STLC	<b>8/03/95</b> :	9.01	0.27	0.12	<0.005	≪0.1	0.23
69-RT-2 - TTLC	8/03/95 :	<0.5 vg/g	6.0 ug/g	5.5 ug/g	1.0ug/g	<25 ug/g	<2 ug/g
CO-RT-3 - STLC	8/03/95 :	0.01	0.25	0.12	<0.005	4.1	0.10
C4-RT-3 - TTLC	8/03/95 :	0.6 05/5	5.8 40/9	33 ug/g	0.945/4	<25 ug/g	<2 ug/g
G-RT-4 - STLC	8/03/95 :	0.03	0.27	0.11	<0.005	≪.1	0.32
ca-er-4 - TTLC	8/03/95 :	<0.5 ug/g	6.8 49/9	5.3 ug/g	4.244/9	<25 ug/g	3.5 ug/g
G2-07-3 - STLC	8/03/95 :	<0.01	0.12	0.28	40.0CS	43.1	0.12
C2-07-3 - 17LC	8/03/95 :	40.5 ug/g	4.3 vg/g	61 ug/g	0.9ug/g	<≳ na\a	3.0 ug/g
		SELENTUR	SILVER	THALLIUM	WAMAD I'UM	ZINC	MELITRALIZA
	Collected	AA HYDRIDE	ic.	iC2	ίΦ	100	TION POT.
Sample	Cate Time	MG/L	MG/L	HQ/L.	MG/L	MG/L	TOMS/1000T
CA-2T-1 - STLC	3/93/95 :	₹3.001	≪2.32	<0.28	≪0.1	1.1	
GQ-R7-1 - TTLE	5/03/95 :	0.549/9	2.6 ug/g	25 ug/g	र्द पद्ध/ड	11 00/9	1
GR-RT-1 - ASP/HP	3/03/ <del>9</del> 5 :	Į.	Ī	1			1.5
∞-₹T-Z - STLC	8/03/95 :	<0.301	<.32	Q.17	40.1	1.1	
GQ-RT-2 - TTLC	3/03/ <del>9</del> 5 :	0.1ug/g	2.3 49/9	40 ug/g	5 ug/g	3.2 ug/g	}
GQ-2T-2 - AGP/NP	\$/ <b>9</b> 3/95 :				1	1	1.3
Continued o	n Next Page	I	1	1		{	1

Approved By:
This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to unon it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.

William F. Pillsoury President

1135 Financial Blvd. Reno, NV 89502 Phone (702) 857-2400 FAX (702) 857-2404

John C. Seher Manager

## Laboratory Analysis Report PRELIMINARY REPORT

Sierra Environmental Monitoring, inc.

Date : 8/24/95 Client : GQM-001

Taken by: A. WAGGONER-WEI

Report : 13961 Pof : 257

: 257

GOLDEN QUEEN MINE A. WAGGONER-WII P.O. BOX 878 ROSAMUND, CA 93560

0	Collected Oate Time	SELENIUM AA HYDRIDE HG/L	SILVER ICP MG/L	THALLIUM ICP MG/L	VANADIUM ICP NG/L	ZINC ICP MG/L	NEUTRALIZA 110% PGT. TONS/1000T
Sample  00-87-3 - STLC  00-87-3 - TTLC  00-87-3 - AGP/NP  00-87-4 - STLC  00-87-4 - ITLC  00-87-4 - AGP/NP  00-07-3 - STLC  100-07-3 - AGP/NP	8/03/95 : 8/03/95 : 8/03/95 : 8/03/95 : 8/03/95 : 8/03/95 : 8/03/95 : 8/03/95 : 8/03/95 :	<pre>&lt;0_001 &lt;0_1ug/s &lt;0_01 0_1ug/s &lt;0_001 0_4ug/s</pre>	<0.02 1.2 vg/g <0.02 <1 vg/s <0.02 21 vg/g	0.21 39 ug/s 0.20 23 ug/s <0.08 17 ug/s	<0.1 <5 ug/s <0.1 <5 ug/s <0.1 <5 ug/s	1.4 16 vg/s 1.2 8.5 vg/s 1.3 9.0 vg/s	0.7
Sample	Collected Date Time	ACID GEN. POTENTIAL TONS/1000T	DIRESTION- TOTAL METALS	ACID GEN. S POTEN.SULFIDE TONS/1580T	STLC EXTRACT	PH-SATUR PASTE S.U.	
GQ-RT-1 - STLC GQ-RT-1 - TTLC GQ-RT-1 - AMP/NP	8/03/95 : 8/03/95 : 8/03/95 :		YES		YES	5.97	
CO-RT-2 - STLC CO-RT-2 - TTLC CO-RT-2 - ACT/NP	8/03/95 : 8/03/95 : 8/03/95 :		YES		YES	7.16	
GG-RT-3 - STLC GG-RT-3 - TTLC GG-RT-3 - AGP/NP GG-RT-4 - STLC	8/03/95 : 8/03/95 : 8/03/95 : 8/03/95 :		AE2		YES	5.04	
CC-RT-4 - TTLC CC-RT-4 - AGP/MP CC-CT-3 - STLC	8/03/95 : 8/03/95 : 8/03/95 : 8/03/95 :		YES		YES	6-12	
GG-0T-3 - TTLC	8/03/95		-				!

Approved By:

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client accuses all liability for the further distribution of the report or its contents.

William F. Pillsbury President 1135 Financial Blvd. Reno, NV 89502 Phone (702) 857-2400 FAX (702) 857-2404

John C. Seher Manager

1016 Greg Screec, Sparks, Nevada 89431 702 / 356-1300 FAX 702 / 356-8917

December 19, 1990

Mr. Paul Chamberlin Chamberlin & Associates, Inc. 7463 West Otero Place Littleton, CO 80123 DECETVED D AUG 0 3 1995

Dear Paul:

Enclosed is our report concerning environmental detoxification washing results for the Soledad Mountain bulk ore samples. This is an addendum to our final metallurgical report dated July 18, 1990.

I apologize for the delay in providing this report.

Sincerely,

Jack S. McPartland

Metallurgist

JSM:aah Enclosure



1016 Greg Street, Sparks, Nevada 89411 702 / 356-1300 FAX 702 / 356-8917

### Report

on

Detoxification Washing - Soledad Mountain Column Leached Residues
MLI Job No. 1389, C.O. #1
December 7, 1990

for

Mr. Paul Chamberlin Chamberlin and Associates, Inc. 7463 West Otero Place Littleton, CO 80123

### DETOXIFICATION PROCEDURES AND RESULTS

Detailed detoxification washing and sampling for environmental analyses were performed on select column leached residues from the cyanidation testing program described in the MLI report dated July 18, 1990. Column residues from the two Polycom grinding test composites were washed in the leaching columns with fresh Reno tap water (approximately pH 7) for 20 days to determine cyanide compound detoxification rates. Wash water was applied at the same rate used for leaching (0.005 gpm/ft²) for the first 19 days. Application rate was doubled (0.010 gpm/ft²) on the final day of washing. Each days' wash effluent volume was measured, and sampled for Au, Ag, pH, and free cyanide analysis (in-house). A 1 liter volume of each effluent was preserved by adjusting the pH to above 12.0 with NaOH, and was submitted to High Desert Laboratories (HDL) for total, WAD, and free cyanide analyses. HDL is an analytical laboratory, based in Sparks, Nevada, which participates in the Water Supply and Water Pollution Performance Evaluation Study Programs that are conducted by the Environmental Monitoring Systems Laboratory of the USEPA.

Immediately after each leached residue was removed from the column, a moist sample was taken for the CAM-WET analysis for Total Threshold Limit Concentration (TTLC) values, and Soluble Threshold Limit Concentration (STLC) values with citric acid extract. Moist samples were also taken for total, WAD, and free cyanide analyses, all performed by HDL. After each residue was air dried, an additional sample was taken and was submitted to HDL for acid generation potential/acid neutralization potential (AGP/ANP) analysis.

2.

Wash effluent analytical results for total, WAD, and free cyanide are provided along with effluent pH data in Tables 1 and 2. Analytical results for CAM-WET tests performed on leached residues are shown in Tables 3 and 4.

Results from cyanide analyses of leached residues are presented in Table 5. Results from AGP/ANP tests and original analytical reports (HDL) are provided in the Appendix to this report.

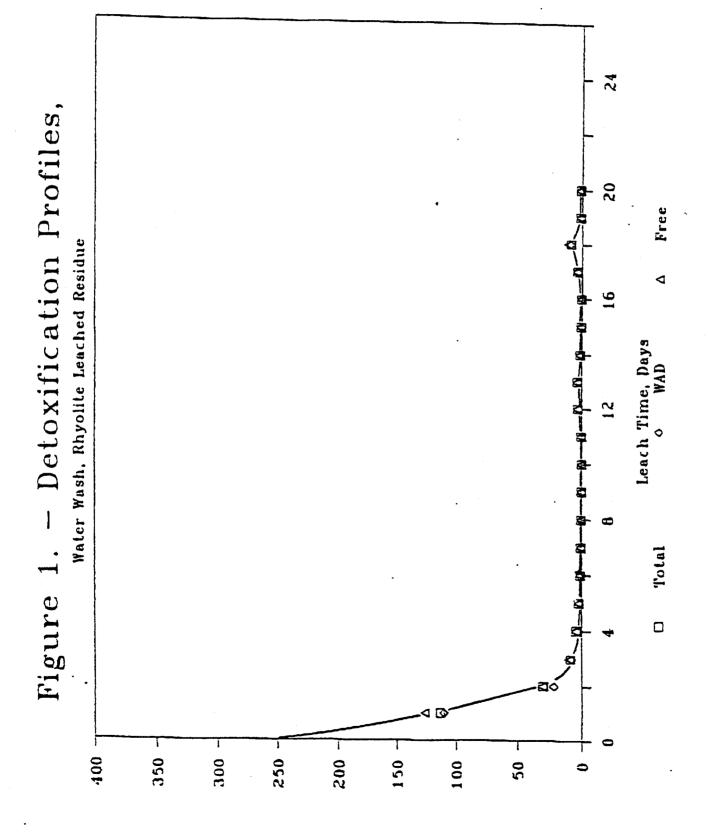
Table 1. - Cyanide Detoxification Data, Column Leach Test,

	Polycom Gri	iding Test Produc	t Rhyolite Compos	site
Wash			ent Analysis	
Time,			Cyanide, mg/l	
Days	pН	Total	WAD	Free
1	11.6	114	111	127
2	11.5 .	30	22	31
3	11.4	8.9	8.0	9.8
4	11.0	4.7	4.1	4.8
5	11.6	2.2	1.7	2.5
6 7	11.4	1.1	1.1	0.92
	11.2	0.63	0.56	0.51
8	11.3	0.37	0.35	0.36
9	11.1	0.26	0.27	0.33
10	11.0	0.22	0.21	0.29
11	10.9	0.56	0.51	0.77
12	10.6	2.9	2.6	3.2
13	10.2	3.7	3.1	3.5
14	10.3	1.3	1.1	1.4
15	10.3	0.68	0.65	0.78
16	10.8	0.37	0.37	0.46
17	10.5	3.6	3.9	4.1
18	10.6	9.1	9.0	11
19	10.5	1.4	1.3	1.5
_20	10.4	1.2	1.2	1.3

-3-

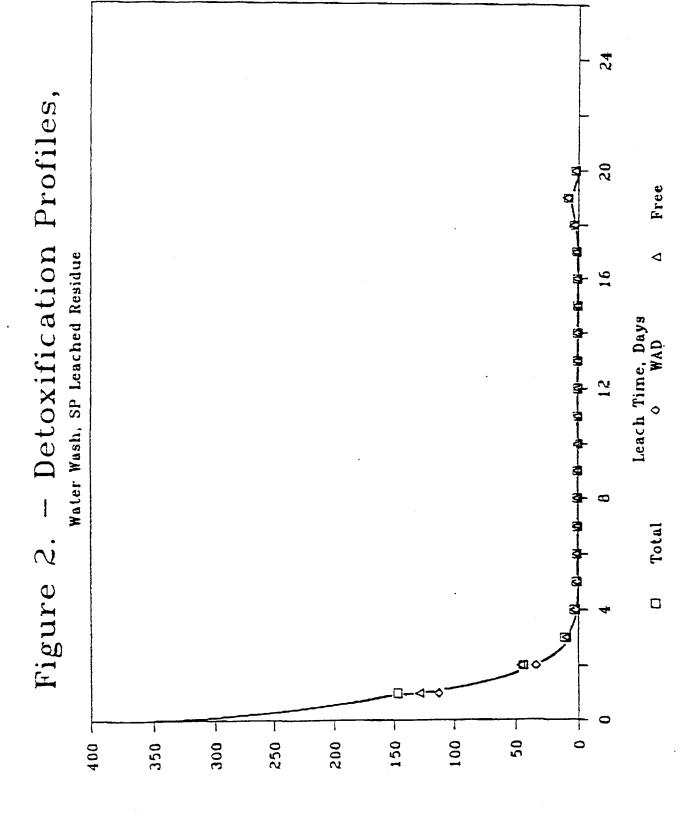
Table 2. - Cyanide Detoxification Data, Column Leach Test, Polycom Grinding Test Product Siliceous Pyroclastic Composite

Wash	Effluent Analysis			
Time,		Cyanide, mg/l		
Days	pH	Total	WAD	Free
1	11.1	147	113	129
2 3 4 5	10.8	44	34	46
3	10.6	11	9.3	9.7
4	10.9	3.4	2.7	2.7
	10.9	1.8	1.4	1.4
6	10.6	1.1	1.1	1.1
7	10.7	0.90	0.80	0.76
8	10.7	0.69	0.55	0.52
9	10.3	0.75	0.56	0.74
10	10.3	0.54	0.54	0.61
11	10.5	0.65	0.60	0.61
12	10.5	0.44	0.36	0.46
13	9.9	0.72	0.67	0.79
14	10.2	0.75	0.77	1.5
15	10.2	0.57	0.57	0.81
16	10.7	1.0	0.91	1.1
17	10.4	1.5	1.7	1.8
18	10.5	3.4	3.2	3.6
19	9.8	8.1	7.9	9.7
20	10.3	2.2	2,1	2.4



Cyanide Concentration, mg/I

-5-



Cyanide Concentration, mg/1

-6-

Table 3. - Analytical Results, CAM-WET Tests, Polycom Grinding Test Product Rhyolite Composit

oviconi Gimung lest Product Rhyolite Composite				
		Total		Extract
<b>D</b> 1:	TILC	Content	STLC	Content
Results	mg/kg	mg/kg	mg/l	me/l
Sb	500	<6.3	15	<1
As	<b>500</b>	0.35	5	0.11
Ba	10,000	250	100	32
Be	<i>75</i>	74	0.75	< 0.5
Cd	100	< 0.25	1.0	< 0.02
Cr	2,500	2.7	560	0.15
Co	8,000	<6.3	80	<1.0
Cu	2,500	3.2	25	< 0.1
Pb	1 <b>,000</b>	25	5	<0.1
Hg	20	0.43	0.2	0.005
Mo	3,500	1,241	350	<1.0
Ni	2,000	<3.2	20	<0.5
Se	100	0.047	1.0	< 0.005
Ag	500	4.0	5	< 0.02
TI	700	<i>7</i> 8	7.0	< 0.5
V	2,400	147	24	<2.0
Zn	5,000	6.2	250	0.12
F	18,000	<2.5	180	0.72

Table 4. - Analytical Results, CAM-WET Tests,

Polycom G	rinding Test	Product Silice	ous Pyroclas	stic Composit	(
		Total		Extract	
	TILC	Content	STLC	Content	
Results	mg/kg	mg/kg	mg/l	mg/l	
SЪ	500	< 6.3	15	< 1.0	
As	500	0.52	5	0.088	
Ba	10,000	234	100	48	
Be	<b>75</b>	80	0.75	< 0.5	
Cd	100	< 0.25	1.0	< 0.02	
Cr	2,500	1.1	<i>5</i> 60	0.15	
Co	8,000	<3.2	80	< 0.5	
Cu	2,500	3.8	25	< 0.1	
Pb	1,000	3.2	5	0.16	
Hg	20	2.1	0.2	0.006	
Mo	3,500	2,022	350	< 1.0	
Ni	2,000	<3.2	20	< 0.5	
Se	100	< 0.025	1.0	< 0.005	
Ag	<b>50</b> 0	3.2	5	< 0.02	
ñ	700	94	7.0	< 0.5	
V	2,400	167	24	<2.0	
Zn	<i>5</i> ,000	2.0	250	0.20	
F	18,000	<2.5	180	1.4	

Table 5. - Cyanide Content, Leached/Washed Residues,
Polycom Grinding Test Product Composites

 Cyanide, mg/kg
 Rhyolite
 Siliceous Pyroclastic

 Total
 0.71
 1.8

 WAD
 0.46
 0.72

 Free
 0.16
 0.25

Detoxification results show that water washing was effective in decreasing average total cyanide from approximately 300 mg/l to 1.7 mg/l in 20 days of washing. WAD cyanide analytical procedures are considered more reliable than those for total or free cyanide.

-8-

Free cyanide analysis is considered to be the most subject to matrix interferences of the three analyses. Consequently, WAD cyanide detoxification rates will be discussed in more detail. WAD cyanide concentrations for the Rhyolite residue decreased from about 250 mg/l to as low as 0.21 mg/l with 20 days of water washing. Although the final wash effluent WAD cyanide concentration was 1.2 mg/l, it is felt that, with a sufficiently long water wash cycle, effluent WAD cyanide concentrations would be below the allowable 0.20 mg/l limit.

WAD cyanide concentrations for the SP residue decreased from about 350 mg/l to as low as 0.36 mg/l with 20 days of water washing. Final wash effluent WAD cyanide concentration was higher at 2.1 mg/l. Again however, it is felt that, with a slightly longer water wash cycle, effluent WAD cyanide concentrations would be within acceptable limits.

Results from CAM-WET analyses show the extracts for both leached/washed residues met allowable limits for all elements evaluated, except for TTLC values for beryllium from the SP residue. Total beryllium concentration in the SP residue was 80 mg/kg, which is above the allowable TTLC limit of 75 mg/kg. Total beryllium concentration of 74 mg/kg in the Rhyolite leached residue was near the allowable limit. Citric acid extracts (STLC) for both residues contained no detectable beryllium (<0.50 mg/kg). Both leached/washed residues contained below 2 mg/kg total cyanide.

Both leached/washed residues displayed a net acid neutralization potential.

Jack S. McPartland

Metallurgist

### APPENDIX

- A-1. Wash Effluent Cyanide Analyses, Rhyolite Column Test.
- A-2. Wash Effluent Cyanide Analyses, Siliceous Pyroclastic Column Test.
- A-3. CAM-WET Analyses, Rhyolite Column Leached Residue.
- A-4. Cyanide Analyses, Rhyolite Column Leached Residue.
- A-5. CAM-WET Analyses, Siliceous Pyroclastic Leached Residue.
- A-6. Cyanide Analyses, Siliceous Pyroclastic Leached Residue.
- A-7. AGP/ANP Analyses, Column Leached Residues



Client: McClelland Laboratories, Incorporated

Address: 1016 Greg Street

Sparks, Nevada 89431

Phone: 356-1300

Dates Sampled: Unknown

Dates Submitted: Various

Client Reference: Project 1389, Solution Samples as Below.

Laboratory Reference Number: Various. Analysis Performed: Dissolved Oxygen.

Sample Identifier	Dissolved Oxygen, as mg O2/L	
389-1403	16	
389-1404	16	
389-1405	21	
389-1410	5.9	
389-1411	7.9	
389-1412	9.9	
389-1401	5.9	
389-1402	3.9	
389-1403	3.9	
389-1404	3.9	
389-1405	27	
380-1406		
389-1418	8.9 7.9	
— - <del></del>	7.9	

Analysis By: Hlubucek/Sharp

Approved By: W. Sharb

Date: 6/3/80
Laboratory Report Number 580



Client: McClelland Laboratories, Incorporated

Address: 1016 Greg Street

Sparks, Nevada 89431

Phone: 356-1300

Dates Sampled: Various Dates Submitted: Various Client Reference: Project 1389, 700 Series Wash Solutions.

Laboratory Reference Numbers: Various.

Analysis Performed: Free Cyanide, Weak Acid Dissociable Cyanide,

and Total Cyanide.

Sample Identifier	Free CN. mg/L	WAD CN. mg/L	Total CN. mg/L
389-753, #1	127	111	114
389-754, #2	31	22	30
389-755, #3	9.8	8.0	8.9
389 <b>-756, #4</b>	4.8	4.1	4.4
389-757 <i>,                                   </i>	2.5(2.3)	1.7	2.2
389 <b>-</b> 758, #6	0.92	1.1	1.1
389 <b>-759, #7</b>	0.51	0.56	0.63
389 <b>-</b> 760, #8	0.36	0.35	0.37
389 <b>-</b> 761, #9	0.33	0.27	0.26
389-762 <i>,                                    </i>	0.29	0.21	0.22
389 <del>-</del> 764	3.2	2.6	2.9
389-765	3.5	3.1	3.7

Note:

Replicate analysis is shown in parenthesis.

Analysis By: Hlubucek/Sharp

Approved By: 1. W. Start Date: 6/26/70

Laboratory Report Number 5

Laboratory Report Number 599

Page 1 of 2.



Client: McClelland Laboratories, Incorporated

Address: 1016 Greg Street

Sparks, Nevada 89431

Phone: 356-1300

Dates Sampled: Various Dates Submitted: Various Client Reference: Project 1389, 800 Series Wash Solutions.

Laboratory Reference Numbers: Various.

Analysis Performed: Free Cyanide, Weak Acid Dissociable Cyanide,

and Total Cyanide.

Sample Identifier	Free CN. mg/L	WAD CN, mg/L	Total CN, mg/I
389-842, #1 389-843, #2 389-844, #3 389-845, #4 389-846, #5 389-847, #6 389-848, #7 389-849, #8 389-850, #9 389-851, #10 389-852 389-853	129 46 9.7 2.7 1.4 1.1 0.76 0.52 0.74 0.61 0.46	113(113) 34 9.3 2.7 1.4 1.1 0.80 0.55 0.56 0.54 0.36	147(132) 44 11 3.4 1.8 1.1 0.90 0.69 0.75 0.54 0.44
	0.79	0.67	0.72

### Note:

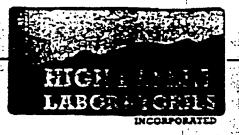
Replicate analysis are shown in parenthesis.

Analysis By: Hlubucek/Sharp

Approved By:

Date: Laboratory Report Number 590

Page 2 of 2.



Client: Mcclelland Laboratories, Incorporated

Address: 1016 Greg Street

Sparks, Nevada 89431

Phone:

Phone: 356-1300
Date Sampled: Unknown
Client Reference: Project 1389-P7.
Laboratory Reference Number: 90-688.

Analysis Performed: CAM-WET Test as Soluble Threshold Limit
Concentrations (STLC) and Total Threshold

Limit Concentrations (TTLC).

Analysis		STIC, mg/L	TTLC, mg/Kg
Antimony	: .	<1.0	<6.3
Arsenic	Ì	0.11	0.35
Barium		32	250
Beryllium		<0.5	<b>21</b> 19 1
Cadmium	• .	<0.02	<0.25
Chromium	•	0.15 总量等	2.7
Cobalt	· :	<1.0	<6.3
Copper	1	<0.1	3.2 ·
Fluoride	:	0.72	<2.5
Lead	: •	<0.1	1. 1 25 25 25 25 25 25 25 25 25 25 25 25 25
Mercury		0.005	0.43
Molybdenum	: •	<1.0	1,241
Nickel	:	<0.5	<3.2
Selenium		<0.005	0.047
Silver	: ·	<0.02	4.0
Thallium	•	(40.5] 从 (2) (3)	78
·Vanadium	i.	<2.0 \$ (表表)。	147
Zinc	• .	0.12	6.2
		or the state of t	

### Note:

1) Results reported on a wet weight basis.
2) STLC and TTLC extractions performed as described in Article 11, Criteria for Identification of Hazardous and Extremely Hazardous Wastes, Title 22, Environmental Health, California Register 85, Number 2--1-12-85.

Hlubucek/Sharp Analysis By:

Approved By:

Laboratory Report Number 635

Page 1 of 4.

325 Freeport Blvd., Sparks, Nevada 89431



Client: McClelland Laboratories, Incorporated.

Address: 1016 Greg Street

Sparks, Nevada 89431

Phone: 356-1300

Date Sampled: Unknown
Client Reference: Project 1389-P7.
Laboratory Reference Numbers: 90-888.
Analysis Performed: Total Conditions

Analysis Performed: Total Cyanide, Weak Acid Dissociable

Cyanide and Free Cyanide.
Rhyolite

Analysis

Total Cyanide, mg/Kg WAD Cyanide, mg/Kg Free Cyanide, mg/Kg

0.78(0.71) 0.46 0.16

NOTE:

1) Results reported on a wet weight basis.

2) Free Cyanide analysis performed on a water soluble

3) Replicate analysis is shown in parenthesis.

Hlubucek/Sharp Analysis By:

Approved By:

Laboratory Report Number 635

Page 2; of 4.

325 Freeport Blvd., Sparks, Nevada 89431

P.O. Box 6535, Reno, Nevada 89513

(702) 359-0330



McClelland Laboratories, Incorporated Client:

1016 Greg Street Address:

Sparks, Nevada 89431

Date Submitted: 7/16/90 Client Reference: Project 1389-P8.
Laboratory Reference Number: 90-889.
Analysis Performed: CAM-WFF Tool Analysis Performed: CAM-WET Test as Soluble Threshold Limit

Concentrations (STLC) and Total Threshold

Limit Concentrations (TTLC).

Siliceous Pyroclastic

	The American American	20 - 22 to 12 000 1 - 10 0.
Analysis	STLC. mg/L	TTLC. mg/Kg
Allatysta	The second of th	
Antimony	<1.0	<6.3
Arsenic	0.088	0.52
Barium	48	234
Beryllium	<b>(0.5</b>	80
Cadmium	<0.02	<0.25
Chromium	0.15	1.1
Cobalt	<0.5	<3.2
Copper	<0.1	3.8
Fluoride	1.4	<2.5
Lead	0.16	3.2
Mercury	0.006	2.1
Holybdenum	<1.0	2,022
Nickel	<0.5	<0.025
Selenium	<0.005	3 7
Silver	<0.02	A STATE
Thallium	<0.5	
Vanadium	<2.0	200
Zinc	0.20	
Note:		

### Note:

1) Results reported on a wet weight basis.

2) STLC and TTLC extractions performed as described in Article 11, Criteria for Identification of Hazardous and Extremely Hazardous Wastes, Title 22, Environmental Health, California Register 85, Number 2--1-12-85.

Hlubucek/Sharp Analysis By:

Approved By:

Page 3 of

325 Freeport Blvd., Sparks, Nevada 89431

P.O. Box 6535, Reno, Nevada 89513

APPENDIX E

### **Estimated Blasting Emissions**

Calculated pursuant to AP-42, table 11.9-2 revised 9/88 as corrected per discussion w EPA.

Lbs (TSP) =  $0.000014*A^1.5$ : where A = horizontal area of blast in ft2

Average Holes per Blast = 20€

Sq Ft affected per hole = 387 (19.68 x 19.68 blast pattern)

 Total Sq Ft per blast =
 77,400

 PM10 fraction =
 0.52

 Tons per hole =
 572.8

Annual Ore Production, MMTPY 6
Annual Overburden, MMTPY 24

Annual Overburden, MMTPY Z4 0.7 BLASTS PER DAY

Estimate number of holes and blasts Ore Overburden Total
# Holes 10500 41900 52400
# Blasts per Year 53 210 263

PM10 Blasting per year 8310 Ore 32920 Overburden

41230 Total

PM10 Max Hourly assuming 1 blast per hour 157

Emmitent		Ore	Overburden		Ore	Overburden	Total
ID		LAB TEST	LAB TEST	LB/HR	LB/YR	LBMR	LB/YR
18540299	Cr 6	5.000E-07	5.000E-07	7.850E-05	4.155E-03	1.646E-02	2.062E-02
7439976	Hg	1.143E-06	3.250E-06	1.795E-04	9.501E-03	1.070E-01	1.165E-01
7782492	Se	1.532E-07	1.875E-07	2.405E-05	1.273E-03	6.173E-03	7.445E-03
7440382	As	4.362E-05	8.525E-05	6.849E-03	3.625E-01	2.806E+00	3.169E+00
7440417	Ве	5.142E-05	3.125E-07	8.072E-03	4.273E-01	1.029E-02	4.376E-01
7440439	Cd	1.525E-06	3.075E-06	2.394E-04	1.267E-02	1.012E-01	1.139E-01
7440508	Cu	3.767E-06	7.150E-06	5.914E-04	3.130E-02	2.354E-01	2.667E-01
7439921	Pb	2.973E-05	1.303E-05	4.668E-03	2.471E-01	4.288E-01	6.759E-01
7440020	Ni	2.600E-06	2.275E-06	4.082E-04	2.161E-02	7.489E-02	9.650E-02
7439965	Mn	7.830E-05	7.830E-05	1.229E-02	6.507E-01	2.578E+00	3.228E+00
7440666	Zn	5.733E-06	1.093E-05	9.001E-04	4.764E-02	3.597E-01	4.073E-01

		· · · · · · · · · · · · · · · · · · ·	Ore	Overburden	Total
ID#	SUBSTANCE	LB/HR	LB/YR	LB/YR	LB/YR
18540299	Cr 6 *	7.850E-05	4.155E-03	1.646E-02	2.062E-02
7439976	Hg *	1.795E-04	9.501E-03	1.070E-01	1.165E-01
7782492	Se *	2.405E-05	1.273E-03	6.173E-03	7.445E-03
7440382	As	6.849E-03	3.625E-01	2.806E+00	3.169E+00
7440417	Be *	8.072E-03	4.273E-01	1.029E-02	4.376E-01
7440439	Cd	2.394E-04	1.267E-02	1.012E-01	1.139E-01
7440508	Cu	5.914E-04	3.130E-02	2.354E-01	2.667E-01
7439921	Pb *	4.668E-03	2.471E-01	4.288E-01	6.759E-01
7440020	Ni	4.082E-04	2.161E-02	7.489E-02	9.650E-02
7439965	Mn	0.01	6.507E-01	2.578E+00	3.228E+00
7440666		9.001E-04	4.764E-02	3.597E-01	4.073E-01

### **GOLDEN QUEEN MINING COMPANY**

### **Estimated Conveyor Emissions**

Emissions have been estimated for the conveyor system from the crusher to the agglomerator using an emission factor from AP-42 Table 11.24-2 (1/95). The PM10 emission factor for high moisture ore is 0.004 lb/ton/transfer point. Fugitive emissions from the conveyor will be controlled with baghouses. A control efficiency of 99% and 49 transfer points has been assumed. Based on the exhibit attached, the average transfer point will process 449 tph.

Emissions are calculated as follows:

 $Lb/Yr = Ton/Yr \times EF(lb/ton) \times (1-CE)$ 

Lb/hr = Ton/hr X EF(lb/ton) X (1-CE)

PM10 EF

0.004

TSP EF

**Emmitent** 

0.01

Tons Transferred		PM10	Transfer	Control	PM10	PM10
Ton/Hr	Ton/Yr	lb/ton	Points		lb/hr	lb/yr
449.00	2993333	0.004	47	99.00%	0.844	5627

LB/HR

IBMR

		W		
18540299	Cr 6	5.000E-07	4.22E-07	2.81E-03
7439976	Hg	1.143E-06	9.65E-07	6.43E-03
7782492	Se	1.532E-07	1.29E-07	8.62E-04
7440382	As	4.362E-05	3.68E-05	2.45E-01
7440417	Ве	5.142E-05	4.34E-05	2.89E-01
7440439	Cd	1.525E-06	1.29E-06	8.58E-03
7440508	Си	3.767E-06	3.18E-06	2.12E-02
7439921	Pb	2.973E-05	2.51E-05	1.67E-01
7440020	Ni	2.600E-06	2.19E-06	1.46E-02
7439965	Mn	7.830E-05	6.61E-05	4.41E-01
7440666	Zn	5.733E-06	4.84E-06	3.23E-02

WT. FRAC.

### **Estimated Crushing Emissions**

Emission factors for high moisture ore from AP-42, section 11.24. (Water is added at crushers) From section 11.24 page 1:

The emission factors in Tables 11.24-1 and 11.24-2 are for the process operations as a whole.

At most metallic mineral processing plants, each process operation requires several types of equipment. A single crushing operation likely includes a hopper or ore dump, screen(s), crusher, surge bin, apron feed conveyor belt transfer points. Emissions from these various pieces of equipment are often ducted to a single device. The emissions factors provided in Tables 11.24-1 and 11.24-2 for primary, secondary, and tertiary operations are for process units that are typical arrangements of the above equipment."

Therefore, all transfer points within the plant are assumed to be included in the crushing emission factors.

### Primary crusher is controlled by water spray

### Secondary and tertiary crushers are controlled by baghouses

Hours of operation pe	r year	7100	
Emission Factor	PM10	TSP	tons/year Tons/hour
Primary	0.009	0.02	6000000 900
Secondary	0.02	0.05	6000000 900
Tertiary (cone)	0.02	0.06	5035000 755
Tertiary (VSI)	0.02	0.06	9720000 1458

Water Spray Control Efficiency Baghouse Control Efficiency =	= 90%
Baghouse Control Efficiency =	99.0%

	Factor	Unconti	Controlled	Controlled
CRUSHING	lb/ton	PM10/Yr	PM10/Yr	PM10/Hr
Primary	0.009	54000	5400	0.810
Secondary *	0.02	120000	1200	0.180
Tertiary (cone)	0.02	100700	1007	0.151
Tertiary (VSI)	0.02	194400	1944	0.292
Total			9551	1.43

<sup>\*</sup> Value determined from ratio of PM to PM10 from tertiary crusher. Controlled Emissions/Yr = Ton/year X Factor X (1-CE)

Substance		Wt. Fraction	Lb/Hr	Lb/Yr
18510299	Cr 6	5.000E-07	7.16E-07	4.78E-03
7439976	Hg	1.143E-06	1.64E-06	1.09E-02
7782492	Se	1.532E-07	2.19E-07	1.46E-03
7440382	As	4.362E-05	6.25E-05	4.17E-01
7440417	Ве	5.142E-05	7.37E-05	4.91E-01
7440439	Cd	1.525E-06	2.18E-06	1.46E-02
7440508	Cu	3.767E-06	5.40E-06	3.60E-02
7439921	Pb	2.973E-05	4.26E-05	2.84E-01
7440020	Ni	2.600E-06	3.72E-06	2.48E-02
7439965	Mn	7.830E-05	1.12E-04	7.48E-01
7440666	Zn	5.733E-06	8.21E-06	5.48E-02

# timated Diesel tank emissions ROGRAM FILE NAME: FIXTANK

COMPANY

### FIXED ROOF TANKS, CALCULATIONS AND REPORTING DATA

GOLDEN QUEEN MINING COMPANY

	COMPAN	·	GOLDEN	SOCEM MIL	IING COMPAI	<b>4</b> I						
ID#	DEVICE#	TANK NAME	TANK CONTEN	TANK PERMIT#	TANK TEMP, F	TANK HEIGHT,ft			MOL WT OF STOR	TANK CA	VAPOR MW	· · · · · · ·
ei		DSL ENG	DIESEL	<del></del>	65	16	0.25		170	476	130	
TVP psia	TANK DI FT		AVG DIU TEMP, F		SM TANK ADJ, C	Crude=.65 Organic=1 BREATH KB		TURNOV KN		EFFIC.	IF FIX LEVE TANK, IN (no wk losses	
0.009	10	3	25	1.33	0.519882	1	266.9	0.31	1	0	0	
				br, LBYR	LOSSES wk. LB/YR 35.98984116	LBMR	CFM	XHAUST V FPM 7.885	•		•	۰
							ponent Co					
OXIC #1	TX1 fract.	TX1 MW			mole fract of TX1 in vapor				EMISSIO	EMISSIO		MISS:
enzene	0.00000	78	3 1.02187	0		0.00275	0.00000	2.02E-04	7.27E-03	1.26E-03	8.30E-07	1.44E-07
OXIC#	2 TX2 fract.	TX2 MW			mole fract of i TX2 in vapor				EMISSIO	EMISSIO		EMISS
oluene	0.0000	0 9:	2 0.37117			0.00275				· · · · · · · · · · · · · · · · · · ·	5.54E-07	
		······································		÷								
FOXIC #	3 TX3 fract.	TX3 MW			. mole fract of li TX3 in vapor				EMISSIC	EMISSIO		EMISS
ryiene	0.0000	0 10	6 0.0859	5 0.0	0	0 0.0027	5 0.0000	0 9.03E-0	5 3.25E-0	3 5.64E-0	4 3.71E-07	6.44E-08

Calculations are based on AP-42
AB2588 toxics programming is based on the
Technical Guidance Document to the
Criteria and Guidelines Regulation
for AB2588, August 1989
and physical properties of the individual
toxics selected for the program

### **Estimated Dozing Emissions**

Emissions from dozing were calculated using AP-42, table 11.9-2, bulldozing overburden

PM10 (Lb/Hr) =  $1.0(s)^{1.5/M^{1.4}0.75}$ 

 $TSP(Lb/Hr) = 5.7(s)^1.2/M^1.3$ 

s=silt content

3.25% average per applicant

M=moisture content

3.00% average per applicant

Assume dozer operates 30 sec. per 100 tons of overburden.

Proposed # of dozers

PM10

Lb/Hr Ore

0

Max Lb/Hr Overburden

1.888

Dozer hours = tons/year x 30 sec/100 tons x 1/3600 sec/hour

Dozer Hours - Overburden

2000 Hours/Year

PM10

Lb/Yr from Ore

0

PM10 Lb/Yr from Overburden 1887.8

		ORE WASTE		OR	E	WASTE		
	Dozing - Ore	LAB TEST	LAB TEST	LB/HR	LB/YR	LB/HR	LB/YR	
1.9E+07	Cr 6	5.0000E-07	5.0000E-07	0.000E+00	0.000E+00	9.439E-07	9.439E-04	
7439976	Hg	1.1433E-06	3.2500E-06	0.000E+00	0.000E+00	6.135E-06	6.135E-03	
7782492	Se	1.5317E-07	1.8750E-07	0.000E+00	0.000E+00	3.540E-07	3.540E-04	
7440382	As	4.3623E-05	8.5250E-05	0.000E+00	0.000E+00	1.609E-04	1.609E-01	
7440417	Be	5.1417E-05	3.1250E-07	0.000E+00	0.000E+00	5.899E-07	5.899E-04	
7440439	Cd	1.5250E-06	3.0750E-06	0.000E+00	0.000E+00	5.805E-06	5.805E-03	
7440508	Cu	3.7667E-06	7.1500E-06	0.000E+00	0.000E+00	1.350E-05	1.350E-02	
7439921	Pb	2.9733E-05	1.3025E-05	0.000E+00	0.000E+00	2.459E-05	2.459E-02	
7440020	Ni	2.6000E-06	2.2750E-06	0.000E+00	0.000E+00	4.295E-06	4.295E-03	
7439965	Mn	7.8300E-05	7.8300E-05	0.000E+00	0.000E+00	1.478E-04	1.478E-01	
7440666	Zn	5.7333E-06	1.0925E-05	0.000E+00	0.000E+00	2.062E-05	2.062E-02	

### DOZING EMISSIONS - TOTAL (ORE + WASTE)

			· · · · · · · · · · · · · · · · · · ·
ID#	SUBSTANCE	LB/HR	LB/YR
18540299	Cr 6 *	9.439E-07	0.001
7439976	Hg *	6.135E-06	0.006
7782492	Se *	3.540E-07	0.000
7440382	As	1.609E-04	0.161
7440417	Be *	5.899E-07	0.001
7440439	Cd	5.805E-06	0.006
7440508	Cu	1.350E-05	0.013
7439921	Pb *	2.459E-05	0.025
7440020	Ni	4.295E-06	0.004
7439965	Mn	1.478E-04	0.148
7440666	Zn	2.062E-05	0.021

### **Estimated Drilling Emissions**

Calculations based on AP-42 Table 11.19.2-2.

### Drilling Operations occur 20 hours per day 7 days per week, 52 weeks per year

Ore

Waste

MMTPY

6

24

PM10 EF =

8E-05 lb/ton

TSP EF =

0.000168 lb/ton

Yearly Emissions - Drilling

PM10

From Ore operations

480 LB/Yr

PM10

From Waste operations

1920 LB/Yr

Maximum hourly tons ore drilled =

1275

Maximum hourly tons waste drilled =

2800

Max hourly PM10 emissions

0.33 Lb/hr

		Ore	Ore Waste Ore			Waste		
		LAB TEST	LAB TEST	LB/HR	LB/YR	LB/HR	Lb/Yr	
18540299	Cr 6	5.000E-07	5.000E-07	1.630E-07	2.400E-04	1.630E-07	9.600E-04	
7439976	Hg	1.143E-06	3.250E-06	3.727E-07	5.488E-04	1.060E-06	6.240E-03	
7782492	Se	1.532E-07	1.875E-07	4.993E-08	7.352E-05	6.113E-08	3.600E-04	
7440382	As	4.362E-05	8.525E-05	1.422E-05	2.094E-02	2.779E-05	1.637E-01	
7440417	Be	5.142E-05	3.125E-07	1.676E-05	2.468E-02	1.019E-07	6.000E-04	
7440439	Cd	1.525E-06	3.075E-06	4.972E-07	7.320E-04	1.002E-06	5.904E-03	
7440508	Cu	3.767E-06	7.150E-06	1.228E-06	1.808E-03	2.331E-06	1.373E-02	
7439921	Pb	2.973E-05	1.303E-05	9.693E-06	1.427E-02	4.246E-06	2.501E-02	
7440020	Ni	2.600E-06	2.275E-06	8.476E-07	1.248E-03	7.417E-07	4.368E-03	
7439965	Mn	7.830E-05	7.830E-05	2.553E-05	3.758E-02	2.553E-05	1.503E-01	
7440666	Zn	5.733E-06	1.093E-05	1.869E-06	2.752E-03	3.562E-06	2.098E-02	

#### **DRILLING EMISSIONS - TOTAL**

		D. (100 C)(1			
		Max	ORE	WASTE	·····
ID#	SUBSTANCE	LB/HR	LB/YR	LB/YR	LB/YR
18540299	Cr 6	1.630E-07	2.400E-04	9.600E-04	1.200E-03
7439976	Hg	1.060E-06	5.488E-04	6.240E-03	6.789E-03
7782492	Se	6.113E-08	7.352E-05	3.600E-04	4.335E-04
7440382	As	2.779E-05	2.094E-02	1.637E-01	1.846E-01
7440417	Ве	1.676E-05	2.468E-02	6.000E-04	2.528E-02
7440439	Cd	1.002E-06	7.320E-04	5.904E-03	6.636E-03
7440508	Cu	2.331E-06	1.808E-03	1.373E-02	1.554E-02
7439921	Pb	9.693E-06	1.427E-02	2.501E-02	3.928E-02
7440020	Ni	8.476E-07	1.248E-03	4.368E-03	5.616E-03
7439965	Mn	2.553E-05	3.758E-02	1.503E-01	1.879E-01
7440666	Zn	3.562E-06	2.752E-03	2.098E-02	2.373E-02

#### Estimated wind erosion emissions

Emissions from wind erosion of the overburden piles have been estimated using the equation found in AP-42 Section 13.2.5 "Industrial Wind Erosion. Peak wind information was obtained from Edwards Air Force base for the period January 1990 through July 1994. This information was used along with the threshold friction velocities found in Table 13.2.5-2 to determine the emissions per event and determine an average emissions per year per acre. Any one individual event occurs in a one hour period and only one event can occur during a 24-hour period. Only a certain area of the dump can be eroded by wind because the remainder of the overburden dumps will be watered or otherwise treated to form a nonerodible crust.

EF = k x {Summation}(Pi)

 $P = 58(u^* - ut^*)^2 + 25(u^* - ut^*)$  for each event

where.

P = erosion potential corresponding to the observed fastest mile of wind

u\* = friction velocity

ut\* = threshold friction velocity 1.02 m/s

Number of events are all days with wind speed in excess of 43.05 mph

1990 1991 1992 1993 1994(1) #Events 6 6 2 3 2

(1) through July 1994

PM10 Ann Average 1st Q 2nd Q 3rd Q 4th Q EF tons/acre/year 0.028 0.008 0.016 0.000 0.004

	Sq Meters	Acres
Dump 1	215,625	53,28
Dump 2	433,125	107.03
Dump 3	137,100	33.88
Dump 4	256,850	63,47
Dump 5	504,125	124.57
TOTAL	1,546,825	382.22

Maximum Hourly

55.277 mph 6.054 g/m2

0.027 tons/acre

Assume only 40 percent are active at any one time.

SURFACE AREA (ACRES)

152.89

PM10 Annual emissions (lb/yr) 8500 PM10 Hourly emissions (lb/hr) 0.94

ID#	SUBSTANCE	LAB TEST	LB/HR	LB/YR
18540299	Cr 6	5.000E-07	4.700E-07	4.250E-03
7439976	Hg	3.250E-06	3.055E-06	2.763E-02
7782492	Se	1.875E-07	1.763E-07	1.594E-03
7440382	As	8.525E-05	8.014E-05	7.246E-01
7440417	Ве	3.125E-07	2.937E-07	2.656E-03
7440439	Cd	3.075E-06	2.891E-06	2.614E-02
7440508	Cu	7.150E-06	6.721E-06	6.078E-02
7439921	Pb	1.303E-05	1.224E-05	1.107E-01
7440020	Ni	2.275E-06	2.138E-06	1.934E-02
7439965	Mn	7.830E-05	7.360E-05	6.656E-01
7440666	Zn	1.093E-05	1.027E-05	9.286E-02

# Estimated emissions from the furnace

### METAL EMISSIONS

The method of calculating emissions of metals from the furnace was established in a 1990 TEIR for another mining co. The calculations use material balance from a pour which was witnessed by Kem Co. APCD.

A sample of digest product, slag and dore' was analyzed. The difference in weight fraction between digest product and the sum of slag and dore' was assumed to be emitted to atmosphere.

On this basis Cd, Cr VI, Se and Hg emissions were calculated. The number of pours was multiplied by the loss per pour to determine annual emissions

W	eigt	ıt in	OL3	ms

	Cd	Cr VI	Se	Hg
Digest	0.075	0.00069	0.058	0.0003
Slag	0.017	0.00019	0.0062	7.6E-05
Dore'	0.0052	0	0.00068	2.7E-05
Loss per pour (grams)	0.0528	0.0005	0.05112	0.000197
Estimated pours in 1998	312			
Loss per year (grams)	16.4736	0.156	15.94944	0.061464
Loss per year (lbs)	3.632E-02	3.440E-04	3.517E-02	1.355E-04
Max loss per hr	1.164E-04	1.103E-06	1.127E-04	4.344E-07

### Fuel Use - furnace

The furnace will burn approximately 12,750 gallons of propane per year. Since emission factors are based on MMSCF of natural gas the fuel use in converted to an MMSCF equivalent as follows: 12760 gallyr X 90,500 bturgal X, 1/1050 soffbit X1/1,250,000 MMscf/scf = 0.88 MMscf/yr

# COMBUSTION EMISSION CALCULATIONS AND INVENTORY DATA

TYPE OF	FUEL GAS	RATING	HEIGHT	DIAM.	GAS TEMP	FUEL	EMISSION C	ALCULATION
DEVICE	type	MMbtu/h	feet	feet	F	BTU/scf	MMscf/y	MMscf/hr
furnace	NAT.GAS	1.25	28.00	0.50	500.00	1050.00	1.10E+00	0.0012
	TOXIC EMIS	SIONS, LBY	EAR					
benz_	formal.	PAHs	acetald	acrol	propyl	tolu	xyle	naoth
2.03E-02	4.50E-02	2.16E-01	3.88E-02	1.44E-02	3.01E-01	3.88E-02	2.42E-03	1.96E-01
	TOXIC EMIS	SIONS, LB/H	OUR					
benz_	formal.	PAHs	acetald	acrol	propyi	tolu	xyle	napth
2.20E-05	4.87E-05	2.34E-04	4.20E-05	1.56E-05	3.26E-04	7.02E-06	2.62E-06	2.13E-04
Emission Fa	actors for < 10	MMBtu/hr.						
Benzene			0.0185		Acrolein			0.0131
Formaledhy	de		0.0409		Propylene			0.2737
PAH's			0.1964		Toluene			0.0059
Naphthalen	е		0.1785		Xylenes			0.0022
Acetaidehyd			0.0353					

NOTE: Emission factors are "lb./MMcf."

F:\CLIENTS\GOLDQUEN\AIR\GQISC3R2.W82

# Estimated emissions from Truck Hauling - Page 1

Particulate emissions from hauling the ore and waste are calculated using AP-42, section 13.2. (Unpaved Roads). The roads will be watered on all operating days to control particulate emiss. Magnesium chloride is also proposed as base control with water as additional control.

The formula found in AP-42 Section 13.2.2 is shown below:

 $E(lb/vmt) = k(5.9) (s/12) (s/30) (W/3)^0.7 (w/4)^0.5 (365-p/365)$ 

k = particulate size mutiplier (pm10=0.36) (TSP=0.8)

s = silt content (%) of road surface

W = mean vehicle weight (tons) 64 tons empty, 154 tons full

S = mean vehicle speed (MPH)

w = number of wheels per vehicle

p = precipitation days per year

Control efficiency factor is calculated on page 2 of truck hauling emissions.

			tpy	tons per truck	miles per trip
Constant	5.9	Ore	6,000,000	145	3.018
k	0.36	Overburden	24,000,000	145	0.983
silt content (%)	3.25		VMT = tpy/(to	ns/truck)*miles	/trip
Speed (MPH)	15,00		VMT, ore	124882	
Vehicle wt. (ton)	115.60		VMT, Waste	162696	_
wheels, #/vehicle	6.00		TOTAL	287578	
precipitation days	15.00				
CE for chemicals	90.00%		PM10	15975	_lb/yr
Addtl CE for water	87.24%	Max VM7	per hour	56.79	
Total CE	98.72%		PM10	3.15	_lb/hr
LB/VMT	0.06				

ID#	SUBSTANCE	LAB TEST	LB/HR	LB/YR
18540299	Cr 6	5.000E-07	1.577E-06	7.988E-03
7439976	Hg	3.250E-06	1.025E-05	5.192E-02
7782492	Se	1.875E-07	5.915E-07	2.995E-03
7440382	As	8.525E-05	2.689E-04	1.362E+00
7440417	Ве	3.125E-07	9.858E-07	4.992E-03
7440439	Cd	3.075E-06	9.701E-06	4.912E-02
7440508	Cu	7.150E-06	2.256E-05	1.142E-01
7439921	Pb	1.303E-05	4.109E-05	2.081E-01
7440020	Ni	2.275E-06	7.177E-06	3.634E-02
7439965	Mn	7.830E-05	2.470E-04	1.251E+00
7440666	Zn	1.093E-05	3.446E-05	1.745E-01

# Estimated emissions from Truck Hauling - Page 2

Control efficiency for wet suppression on unpaved roads is from AP-40 page 141

C = 100 - (0.8 p\*d\*t/i)

where

p = potential evaporation, mm/h

p = 0.0049\*110 annual =

0.539

p = 0.0065\*110 summer =

0.715

(110 is mean annual pan evaporation from chart page 142)

evaporation, inches per year

92.9457 annual

123,295 summer

d = average daytime traffic, (1/h) =

5.7 ore

22.7 waste

t = time between applications, hours

1.2 summer

1.5 Annual

i = application intensity, I/m2

1 22

1.22

Rainfall\*, inches per application

0.048

0.048

Road width

75 ft

75

Total Water used per application

564 barrels

564

87.2

C.% =C.% = 87.24 summer waste 96.81 summer ore

87.97 annual waste 96.99 annual ore

87.2

0.88 97.0

Water Truck size

add'I truck

6000 gallons, initially

18000 gallons added after 1.5 years

Water usage for roads

260 gallons per minute

Haulage and water trucks

20 hours per day

Roundtrip road length, ore

15935 feet

Roundtrip road length, overburden

5190 feet

<sup>\*</sup> Equivalent rainfall for amount of water applied by truck

#### Estimated Emissions from Truck Loading and Unloading

Emission factor for drop operation, AP-42, Section 11.2.3-2, September 1988

0.35 PM10

E = K \* 0.0032 (U/5)^1.3/(M/2)^1.4

k=Particle size fraction

U=Mean wind speed, mph 8:05 Average from Edwards AFB

M=Moisture content,% 3 from applicant

E = 0.00118 Annual EF PM10 Tons Load Ore 6,000,000 0.00118 7,075 Load Waste 24,000,000 28,299 0.00118 Unioad Ore 0.00118 0 0 Unload Waste 24,000,000 0.00118 28,299

Max Hourly ore loaded 2000: Max Hrly wste loaded or unio 2500

Max hourly emissions, ore 2.36 Lb/Hr

Max hourly emissions, waste 2.95

#### LOADING EMISSIONS

	ORE	WASTE		ORE	WASTE	TOTAL
	LAB TEST	LAB TEST	LB/HR	LBYR	LBYR	LB/YR
Cr 6	5.000E-07	5.000E-07	2.655E-06	3.538E-03	1.415E-02	1.769E-02
Hg	1.143E-06	3.250E-06	6.071E-06	8.089E-03	9.197E-02	1.001E-01
Se	1.532E-07	1.875E-07	8.133E-07	1.084E-03	5.306E-03	6.390E-03
As	4.362E-05	8.525E-05	2.316E-04	3.086E-01	2.412E+00	2.721E+00
Ве	5.142E-05	3.125E-07	2.730E-04	3.638E-01	8.843E-03	3.726E-01
Cd	1.525E-06	3.075E-06	8.098E-06	1.079E-02	8.702E-02	9.781E-02
Cu	3.767E-06	7.150E-06	2.000E-05	2.665E-02	2.023E-01	2.290E-01
Pb	2.973E-05	1.303E-05	1.579E-04	2.104E-01	3.686E-01	5.790E-01
Ni	2.600E-06	2.275E-06	1.381E-05	1.840E-02	6.438E-02	8.278E-02
Mn	7.830E-05	7.830E-05	4.158E-04	5.540E-01	2.216E+00	2.770E+00
Zn	5.733E-06	1.093E-05	3.044E-05	4.056E-02	3.092E-01	3.497E-01

### UNLOADING EMISSIONS

	ORE	WASTE		Ore	Waste	TOTAL
	LAB TEST	LAB TEST	LB/HR	LB/YR	LBYR	LB/YR
Cr 6	5.0000E-07	5.0000E-07	2.655E-06	0.000E+00	1.415E-02	1.415E-02
Hg	1.1433E-06	3.2500E-06	6.071E-06	0.000E+00	9.197E-02	9.197E-02
Se	1.5317E-07	1.8750E-07	8.133E-07	0.000E+00	5.306E-03	5.306E-03
As	4.3623E-05	8.5250E-05	2.316E-04	0.000E+00	2.412E+00	2.412E+00
Be	5.1417E-05	3.1250E-07	2.730E-04	0.000E+00	8.843E-03	8.843E-03
Cd	1.5250E-06	3.0750E-06	8.098E-06	0.000E+00	8.702E-02	8.702E-02
Cu	3.7667E-06	7.1500E-06	2.000E-05	0.000E+00	2.023E-01	2.023E-01
Pb	2.9733E-05	1.3025E-05	1.579E-04	0.000E+00	3.686E-01	3.686E-01
Ni	2.6000E-06	2.2750E-06	1.381E-05	0.000E+00	6.438E-02	6.438E-02
Mn	7.8300E-05	7.8300E-05	4.158E-04	0.000E+00	2.216E+00	2.216E+00
7n	5 7333E-06	1.0925F-05	3 044F-05	0.000F+00	3 092E-01	3.092F-01

### SUM OF TRUCK LOADING AND UNLOADING

			ORE	WASTE	Total
ID#	SUBSTANCE	LB/HR	LBYR	LBYR	LB/YR
18540299	Cr 6	2.655E-06	3.538E-03	2.830E-02	3.184E-02
7439976	Нд	6.071E-06	8.089E-03	1.839E-01	1.920E-01
7782492	Se	8.133E-07	1.084E-03	1.061E-02	1.170E-02
7440382	As	2.316E-04	3.086E-01	4.825E+00	5.134E+00
7440417	Ве	2.730E-04	3.638E-01	1.769E-02	3.815E-01
7440439	Cd	8.098E-06	1.079E-02	1.740E-01	1.848E-01
7440508	Cu	2.000E-05	2.665E-02	4.047E-01	4.313E-01
7439921	Pb	1.579E-04	2.104E-01	7.372E-01	9.476E-01
7440020	Ni	1.381E-05	1.840E-02	1_288E-01	1.472E-01
7439965	Mn	4.158E-04	5.540E-01	4.432E+00	4.986E+00
7440666	Zn	3.044E-05	4.056E-02	6.183E-01	6.589E-01

# Estimated Emissions from Ponds & Pads

				٥			
MINE 1				MINE 2			
Barren Pond				Barren Pond			
	Surface Area =	0	ft2		Surface Area =	0	ft2
	Average pH =	11	рH		Average pH =	9.7	-
	NaCN Conc. =	225	ppm		NaCN Conc. =		ppm
						•	<b>PP</b>
Pregnant Por	nd ·			Pregnant Pon	nd		
	Surface Area =	0	ft2		Surface Area =	0	ft2
	Average pH =	11	рH		Average pH =	9	pН
	NaCN Conc. =	100	ppm		NaCN Conc. =	5	ppm
1 t <b>D</b> t							
Leach Pad	• • • • • •			Leach Pad			
	Solution Usage =	1.89E+09	gallyr		Solution Usage =	1.60E+08	gal/yr
Tompostus	Adinate ant Fauta			T			
remperature	Adjustment Factor	_	•	pH Adjustme			· .
	Dome Mines temp Vapor Pressure		C		Dome		
	Rand Temp		mm Hg				рH
	Vapor Pressure	25 720				0.5%	HCN Conce
	Factor(t) =		mm Hg				
	racioi(i) -	2.557			Golden Queen		
Solution Con	centration			-{	MINE 1 (B & P)		pH
Colddon Col	Dome	65.2	( CN)		MINIE O DAODEN	6.0%	
	MINE 1 BARREN		ppm (as CN)		MINE 2 BARREN	10.5	•
	MINE 2 BARREN		ppm (as CN)	4	MINEGOCOMANIE	6.0%	
	MINE 1 PREGNANT		ppm (as CN)		MINE 2 PREGNANT	10.5	•
	MINE 2 PREGNANT		ppm (as CN)			6.0%	HCN Conce
	111111111111111111111111111111111111111	7.5	ppm (as CN)		Easter(pH)		
	Factor(c)				Factor(pH) MINE 1 BARREN	40	
	MINE 1 BARREN	3,063		İ	MINE 2 BARREN	12	
	MINE 2 BARREN	1.149			MINE 1 PREGNANT	12 12	
	MINE 1 PREGNANT	3.063			MINE 2 PREGNANT	12	
	MINE 2 PREGNANT	1.149			MINE Z I REORANT	12	
Pond Emiss	ion Factors for HCN			<u> </u>			<del></del>
	lb/ft2/day = 5.6E-05 x F	actor(t) x fac	tor(pH) x facto	r(c) x MW(HC)	N)MW(CN)		
	lb/ft2/hr = 2.3E-06 x Fa						
	MW(HCN) =	27		(-,	,,		
	MW(CN) =	26					
	lb/ft2/day				lb/ft2/hr		
	MINE 1 BARREN	5.47E-03			MINE 1 BARREN	2.24E-04	•
	MINE 2 BARREN	2.05E-03	1		MINE 2 BARREN	8.42E-05	
	MINE 1 PREGNANT	5.47E-03	}		MINE 1 PREGNANT	2.24E-04	
	MINE 2 PREGNANT	2.05E-03	}		MINE 2 PREGNANT	8.42E-05	
<b>_</b>							
Calculated 8	Emissions from ponds						
	- ··· · - · -	lb/y	r lb/h	nr			
	MINE 1 BARREN	(	)	0			
	MINE 2 BARREN	(		0			
	MINE 1 PREGNANT	(		0			
	MINE 2 PREGNANT	(	)	0			

### Estimated Emissions from Ponds & Pads

Emissions from Leach Pads are based on Gold Fields Operating Company (GFOC) data. GFOC emissions rate was 1.29e-4 lbs HCN per gallon of leaching solution evaporated.

pH Adjustments		Concentration Adjustments	
GFOC	9.8 pH	GFOC	106 ppm
	20.0% HCN		
		Golden Queen	250 ppm
Golden Queen	10,5 pH	Not Used	0 ppm
	15.1% HCN		
Not used	10.5 pH		
	3.0% HCN	Factor(c)	
		Golden Queen	2.358
Factor(pH)		Not used	0.000
Golden Queen	0.76		. ^
Not used	0.15		^

Pad Emission Factors for HCN

lb(HCN)/gal evaporated = 1.29E-04 x factor(pH) x factor(c)

lb/gal evaporated

Golden Queen

2.30E-04

Not used

0.00E+00

Mine 1 evaporation factor

5%

Mine 2 evaporation factor

5%

Calculated Emissions from pads

lb/yr

lb/hr

Golden Queen

21731.95

2.481E+00

Mine 2

0.00

0.000E+00

# **Estimated Emissions from Mercury Retort**

Cactus Gold Mercury Retort Emission Limit = 7.07925 E-6 gm/sec Cactus Gold 1993 TEIR used source test results of 5.81E-6 lb Hg/Hr Annual emissions were calculated at 9.1 E-3 lb Hg/yr Amount of ore processed was reported at 4,370,000 tons/yr

Emission factor (Lb Hg/ton ore) =

2.082E-09

Estimated annual emissions for Golden Queen:

6,000,000 ton ore/yr X 2.08E-9 Lb Hg/ton ore 1.249E-02 lb Hg/Yr

Maximum hourly Hg emissions:

7.07925E-6 gm/sec X 60 sec/min X 60 min/hr X 2.205E-3 lb/gm= 5.620E-05 lb Hg/Hr

### CONSTITUENT CONCENTRATIONS COMPARED

	RAND	CACTUS	CACTUS STD HILL	Old Basis for Golden Queen
		Blasthole	Crusher	Calculations
	LAB TEST			
18540299 Cr 6 *	2.50E-07 +	5.00E-07 +	5.00E+07 2.00E-08	5.00E-07
7439976 Hg *	1.00E-08	1.38E-06	6.50E-06 2.10E-07	6.50E-06
7782492 Se *	1.40E-07	9.00E-07 +	2.50E-62 5.00E-08	2.50E-07
7440382 As	1.14E-03	1.65E-03	2.14E-03 1.20E-05	1.20E-05
7440417 Be *	1.80E-07 +	2.50E-07	100E-06 4.00E-07	1.09E-06
7440439 Cd	1.70E-07	4.10E-06	8.38E-06 2.10E-07	8.38E-06
7440508 Cu	3.14E-05	9.90E-06	3.67E-06 2.20E-06	3.67E-05
7439921 Pb	1.88E-05	3.96E-05	4 05E-05 1.20E-05	4.05E-05
7440020 Ni	2.29E-05 +	1.25E-06	5.29E-08 2.00E-06	5.29E-06
7439965 Mn	2.50E-04	1.02E-05	7.83E-06 5.95E-04	7.83E-05
7440666 Zn	7.36E-05	1.95E-05	2,22E-05 8.50E-05	2.22E-05
1175 Sio2	1.21E-01	1.04E-01	8.87E-02 8.60E-02	
+ 50% detection lim	nit			

	New Basis for Golden Queen Ore	Waste	Rhyolite	Siliceous Pyroclastic	OT-3	RT-1	RT-2	RT-3	RT-4
18540299 Cr 6	5.00E-07	5.00E-07	2.70E-06	1.10E-06	1,30E-04	1.10E-04	1.20E-04	7.20E-05	1.30E-04
7439976 Ha	1.14E-06	3.25E-06	4.30E-07	2.10E-06	9.00E-07	6.90E-06	1.00E-06	9.00E-07	-4.20E-06
7782492 Se	1.53E-07	1.88E-07	4.70E-08	1.25E-08	4.00E-07	5.00E-07	1.00E-07	5.00E-08	1.00E-07
7440382 As	4.36E-05	8.53E-05	3.50E-07	5.20E-07	1.30E-04	7.50E-05	1.40E-04	5.00E-05	7.60E-05
7440417 Be	5.14E-05	3.13E-07	7.40E-05	8.00E-05	2.50E-07	2.50E-07	2.50E-07	5.00E-07	2.50E-07
7440439 Cd	1.53E-06	3.08E-06	2.50E-07	1.25E-07	4.20E-06	2.80E-06	5.50E-06	1.50E-06	2.50E-06
7440508 Cu	3.77E-06	7.15E-06	3.20E-06	3.80E-06	4.30E-06	1.00E-05	6.00E-06	5.80E-06	6.80E-06
7439921 Pb	2.97E-05	1.30E-05	2.50E-05	3.20E-06	6.10E-05	8.30E-06	5.50E-06	3.30E-05	5.30E-06
7440020 Ni	2.60E-06	2.28E-06	3.20E-06		3.00E-06	3.50E-06	1.00E-06	1.00E-06	3.60E-06
7439965 Mn	7.83E-05	7.83E-05							
7440666 Zn	5.73E-06	1.09E-05	6.20E-0	2.00E-06	9.00E-06	1.10E-05	8.20E-06	1.60E-05	8.50E-06

· ·	ORE			WASTE		
	Average	Maximum	Minimum	Average Maximum Minimum		
18540299 Cr 6	4.46E-05	1.30E-04	1.10E-06	1.08E-04 1.30E-04 7.20E-05		
7439976 Hg	1.14E-06	2.10E-06	4.30E-07	3.25E-06 6.90E-06 9.00E-07		
7782492 Se	1.53E-07	4.00E-07	1.25E-08	1.88E-07 5.00E-07 5.00E-08		
7440382 As	4.36E-05	1.30E-04	3.50E-07	8.53E-05 1.40E-04 5.00E-05		
7440417 Be	5.14E-05	8.00E-05	2.50E-07	3.13E-07 5.00E-07 2.50E-07		
7440439 Cd	1.53E-06	4.20E-06	1.25E-07	3.08E-06 5.50E-06 1.50E-06		
7440508 Cu	3.77E-06	4.30E-06	3.20E-06	7.15E-06 1.00E-05 5.80E-06		
7439921 Pb	2.97E-05	6.10E-05	3.20E-06	1.30E-05 3.30E-05 5.30E-06		
7440020 Ni	2.60E-06	3.20E-06	1.60E-06	2.28E-06 3.60E-06 1.00E-06		
7439965 Mn						
7440666 Zn	5.73E-06	9.00E-06	2.00E-06	1.09E-05 1.60E-05 8.20E-06		
1175 Sio2						

### **Estimated Blasting Emissions**

Calculated pursuant to AP-42, table 11.9-2 revised 9/88 as corrected per discussion w EPA.

Lbs (TSP) =  $0.000014*A^1.5$ : where A = horizontal area of blast in ft2

Average Holes per Blast =

Sq Ft affected per hole =

387 (19.68 x 19.68 blast pattern)

Total Sq Ft per blast =

77,400

TSP fraction = Tons per hole =

572.8

Annual Ore Production, MMTPY

1

Annual Overburden, MMTPY

6 24

0.7 BLASTS PER DAY

Estimate number of holes and blasts # Holes

Ore Overburden Total 10500 41900 52400 53 210 263

TSP

Blasting per year

# Blasts per Year

15980 Ore

63310 Overburden

79290 Total

TSP

Max Hourly assuming 1 blast per hour

301

Emmitent		Ore	Overburden		Ore	Overburden	Total
ID		LAB TEST	LAB TEST	LB/HR	LB/YR	LB/YR	LB/YR
18540299	Cr 6	5.000E-07	5.000E-07	1.505E-04	7.990E-03	3.166E-02	3.964E-02
7439976	Hg	1.143E-06	3.250E-06	3.441E-04	1.827E-02	2.058E-01	2.240E-01
7782492	Se	1.532E-07	1.875E-07	4.610E-05	2.448E-03	1.187E-02	1.432E-02
7440382	As	4.362E-05	8.525E-05	1.313E-02	6.971E-01	5.397E+00	6.094E+00
7440417	Be	5.142E-05	3.125E-07	1.548E-02	8.216E-01	1.978E-02	8.414E-01
7440439	Cd	1.525E-06	3.075E-06	4.590E-04	2.437E-02	1.947E-01	2.190E-01
7440508	Cu	3.767E-06	7.150E-06	1.134E-03	6.019E-02	4.527E-01	5.129E-01
7439921	Pb	2.973E-05	1.303E-05	8.950E-03	4.751E-01	8.246E-01	1.300E+00
7440020	Ni	2.600E-06	2.275E-06	7.826E-04	4.155E-02	1.440E-01	1.856E-01
7439965	Mn	7.830E-05	7.830E-05	2.357E-02	1.251E+00	4.957E+00	6.208E+00
7440666	Zn	5.733E-06	1.093E-05	1.726E-03	9.162E-02	6.917E-01	7.833E-01

		· · · · · · · · · · · · · · · · · · ·	Ore	Overburden	Total
ID#	SUBSTANCE	LB/HR	LB/YR	LB/YR	LB/YR
18540299	Cr 6 *	1.505E-04	7.990E-03	3.166E-02	3.964E-02
7439976	Hg *	3.441E-04	1.827E-02	2.058E-01	2.240E-01
7782492	Se *	4.610E-05	2.448E-03	1.187E-02	1.432E-02
7440382	As	1.313E-02	6.971E-01	5.397E+00	6.094E+00
7440417	Be *	1.548E-02	8.216E-01	1.978E-02	8.414E-01
7440439	Cd	4.590E-04	2.437E-02	1.947E-01	2.190E-01
7440508	Cu	1.134E-03	6.019E-02	4.527E-01	5.129E-01
7439921	Pb *	8.950E-03	4.751E-01	8.246E-01	1.300E+00
7440020	Ni	7.826E-04	4.155E-02	1.440E-01	1.856E-01
7439965	Mn	0.02	1.251E+00	4.957E+00	6.208E+00
7440666	Zn	1.726E-03	9.162E-02	6.917E-01	7.833E-01

### **Estimated Conveyor Emissions**

Emissions have been estimated for the conveyor system from the crusher to the agglomerator using an emission factor from AP-42 Table 11.24-2 (1/95). The PM10 emission factor for high moisture ore is 0.004 lb/ton/transfer point. Fugitive emissions from the conveyor will be controlled with baghouses. A control efficiency of 99% and 49 transfer points has been assumed. Based on the exhibit attached, the average transfer point will process 449 tph.

Emissions are calculated as follows:

 $Lb/Yr = Ton/Yr \times EF(lb/ton) \times (1-CE)$ 

Lb/hr = Ton/hr X EF(lb/ton) X (1-CE)

PM10 EF

0.004

TSP EF

Emmitent

0.01

Tons Transferred		TSP	Transfer	Control	TSP	TSP
Ton/Hr	Ton/Yr	lb/ton	Points		lb/hr	lb/yr
449.00	2993333		47	99.00%	2.110	14069

LB/YR

LB/HR

Г	18540299	Cr 6	5.000E-07	1.06E-06	7.03E-03
	7439976	Hg	1.143E-06	2.41E-06	1.61E-02
	7782492	Se	1.532E-07	3.23E-07	2.15E-03
	7440382	As	4.362E-05	9.21E-05	6.14E-01
	7440417	Ве	5.142E-05	1.09E-04	7.23E-01
	7440439	Cd	1.525E-06	3.22E-06	2.15E-02
	7440508	Cu	3.767E-06	7.95E-06	5.30E-02
	7439921	Pb	2.973E-05	6.27E-05	4.18E-01
	7440020	Ni	2.600E-06	5.49E-06	3.66E-02
	7439965	Mn	7.830E-05	1.65E-04	1.10E+00
	7440666	Zn	5.733E-06	1.21E-05	8.07E-02

WT. FRAC.

### **Estimated Crushing Emissions**

Emission factors for high moisture ore from AP-42, section 11.24. (Water is added at crushers) From section 11.24 page 1:

The emission factors in Tables 11.24-1 and 11.24-2 are for the process operations as a whole.

At most metallic mineral processing plants, each process operation requires several types of equipment. A single crushing operation likely includes a hopper or ore dump, screen(s), crusher, surge bin, apron feede conveyor belt transfer points. Emissions from these various pieces of equipment are often ducted to a single device. The emissions factors provided in Tables 11.24-1 and 11.24-2 for primary, secondary, and tertiary operations are for process units that are typical arrangements of the above equipment."

Therefore, all transfer points within the plant are assumed to be included in the crushing emission factors.

# Primary crusher is controlled by water spray.

Secondary and tertiary crushers are controlled by bachouses

Hours of operation per year		7100	
Emission Factor	PM10	TSP	tons/year Tons/hour
Primary	0.009	0.02	6000000 900
Secondary	0.02	0.05	6000000 900
Tertiary (cone)	0.02	0.06	5035000 755
Tertiary (VSI)	0.02	0.06	9720000 1458

Water Spray Control Efficiency	= 90%
Water Spray Control Efficiency Baghouse Control Efficiency =	99.0%

	Factor	Unconti	Controlled	Controlled
CRUSHING	lb/ton	TSP/Yr	TSP/Yr	TSP/Hr
Primary	0.02	120000	12000	1.800
Secondary *	0.05	300000	3000	0.450
Tertiary (cone)	0.06	302100	3021	0.453
Tertiary (VSI)	0.02	194400	1944	0.292
Total			19965	2.99

<sup>\*</sup> Value determined from ratio of PM to PM10 from tertiary crusher. Controlled Emissions/Yr = Ton/year X Factor X (1-CE)

Substance		Wt. Fraction	Lb/Hr	Lb/Yr
18540299	Cr 6	5.000E-07	1.50E-06	9.98E-03
7439976	Hg	1.143E-06	3.42E-06	2.28E-02
7782492	Se	1.532E-07	4.59E-07	3.06E-03
7440382	As	4.362E-05	1.31E-04	8.71E-01
7440417	Ве	5.142E-05	1.54E-04	1.03E+00
7440439	Cd	1.525E-06	4.57E-06	3.04E-02
7440508	Cu	3.767E-06	1.13E-05	7.52E-02
7439921	Pb	2.973E-05	8.90E-05	5.94E-01
7440020	Ni	2.600E-06	7.79E-06	5.19E-02
7439965	Mn	7.830E-05	2.34E-04	1.56E+00
7440666	Zn	5.733E-06	1.72E-05	1.14E-01

### **Estimated Dozing Emissions**

Emissions from dozing were calculated using AP-42, table 11.9-2, bulldozing overburden

PM10 (Lb/Hr) =  $1.0(s)^{1.5/M^{1.4}0.75}$ 

 $TSP(Lb/Hr) = 5.7(s)^{1.2}/M^{1.3}$ 

s=silt content

3,25% average per applicant

M=moisture content

3.00% average per applicant

Assume dozer operates 30 sec. per 100 tons of overburden.

Proposed # of dozers

2

TSP

Lb/Hr Ore

0

Max Lb/Hr Overburden

11.244

Dozer hours = tons/year x 30 sec/100 tons x 1/3600 sec/hour

Dozer Hours - Overburden

2000 Hours/Year

TSP

Lb/Yr from Ore

٥

TSP

Lb/Yr from Overburden

11243.6

		ORE	WASTE _	OR	<b>E</b>	WAS	TE
	Dozing - Ore	LAB TEST	LAB TEST	LB/HR	LB/YR	LB/HR	LB/YR
1.9E+07	Cr 6	5.0000E-07	5.0000E-07	0.000E+00	0.000E+00	5.622E-06	5.622E-03
7439976	Hg	1.1433E-06	3.2500E-06	0.000E+00	0.000E+00	3.654E-05	3.654E-02
7782492	Se	1.5317E-07	1.8750E-07	0.000E+00	0.000E+00	2.108E-06	2.108E-03
7440382	As	4.3623E-05	8.5250E-05	0.000E+00	0.000E+00	9.585E-04	9.585E-01
7440417	Be	5.1417E-05	3.1250E-07	0.000E+00	0.000E+00	3.514E-06	3.514E-03
7440439	Cd	1.5250E-06	3.0750E-06	0.000E+00	0.000E+00	3.457E-05	3.457E-02
7440508	Cu	3.7667E-06	7.1500E-06	0.000E+00	0.000E+00	8.039E-05	8.039E-02
7439921	Pb	2.9733E-05	1.3025E-05	0.000E+00	0.000E+00	1.464E-04	1.464E-01
7440020	Ni	2.6000E-06	2.2750E-06	0.000E+00	0.000E+00	2.558E-05	2.558E-02
7439965	Mn	7.8300E-05	7.8300E-05	0.000E+00	0.000E+00	8.804E-04	8.804E-01
7440666	Zn	5.7333E-06	1.0925E-05	0.000E+00	0.000E+00	1.228E-04	1.228E-01

### DOZING EMISSIONS - TOTAL (ORE + WASTE)

			· · · · · · · · · · · · · · · · · · ·
ID#	SUBSTANCE	LB/HR	LB/YR
18540299	Cr 6 *	5.622E-06	0.006
7439976	Hg *	3.654E-05	0.037
7782492	Se *	2.108E-06	0.002
7440382	As	9.585E-04	0.959
7440417	Be *	3.514E-06	0.004
7440439	Cd	3.457E-05	0.035
7440508	Cu	8.039E-05	0.080
7439921	Pb *	1.464E-04	0.146
7440020	Ni	2.558E-05	0.026
7439965	Mn	8.804E-04	0.880
7440666	Zn	1.228E-04	0.123

### **Estimated Drilling Emissions**

Calculations based on AP-42 Table 11.19.2-2.

Drilling Operations occur 20 hours penday 7 days per week, 52 weeks per year

Ore

Waste

**MMTPY** 

6

24

PM10 EF =

8E-05 lb/ton

TSP EF =

0.000168 lb/ton

Yearly Emissions - Drilling

TSP

From Ore operations

1008 LB/Yr

TSP

From Waste operations

4032 LB/Yr

Maximum hourly tons ore drilled =

1275

Maximum hourly tons waste drilled =

2800

Max hourly PM10 emissions

0.68 Lb/hr

		Ore	Waste Ore		Waste		
		LAB TEST	LAB TEST	LB/HR	LB/YR	LB/HR	Lb/Yr
18540299	Cr 6	5.000E-07	5.000E-07	3.423E-07	5.040E-04	3.423E-07	2.016E-03
7439976	Hg	1.143E-06	3.250E-06	7.827E-07	1.152E-03	2.225E-06	1.310E-02
7782492	Se	1.532E-07	1.875E-07	1.049E-07	1.544E-04	1.284E-07	7.560E-04
7440382	As	4.362E-05	8.525E-05	2.986E-05	4.397E-02	5.836E-05	3.437E-01
7440417	Be	5.142E-05	3.125E-07	3.520E-05	5.183E-02	2.139E-07	1.260E-03
7440439	Cd	1.525E-06	3.075E-06	1.044E-06	1.537E-03	2.105E-06	1.240E-02
7440508	Cu	3.767E-06	7.150E-06	2.579E-06	3.797E-03	4.895E-06	2.883E-02
7439921	Pb	2.973E-05	1.303E-05	2.036E-05	2.997E-02	8.917E-06	5.252E-02
7440020	Ni	2.600E-06	2.275E-06	1.780E-06	2.621E-03	1.557E-06	9.173E-03
7439965	Mn	7.830E-05	7.830E-05	5.360E-05	7.893E-02	5.360E-05	3.157E-01
7440666	Zn	5.733E-06	1.093E-05	3.925E-06	5.779E-03	7.479E-06	4.405E-02

### **DRILLING EMISSIONS - TOTAL**

		DIVIDENCE CHIOGICITO - 10 17C					
		Max	ORE	WASTE			
ID#	SUBSTANCE	LB/HR	LB/YR	LB/YR	LB/YR		
18540299	Cr 6	3.423E-07	5.040E-04	2.016E-03	2.520E-03		
7439976	Hg	2.225E-06	1.152E-03	1.310E-02	1.426E-02		
7782492	Se	1.284E-07	1.544E-04	7.560E-04	9.104E-04		
7440382	As	5.836E-05	4.397E-02	3.437E-01	3.877E-01		
7440417	Ве	3.520E-05	5.183E-02	1.260E-03	5.309E-02		
7440439	Cd	2.105E-06	1.537E-03	1.240E-02	1.394E-02		
7440508	Cu	4.895E-06	3.797E-03	2.883E-02	3.263E-02		
7439921	Pb	2.036E-05	2.997E-02	5.252E-02	8.249E-02		
7440020	Ni	1.780E-06	2.621E-03	9.173E-03	1.179E-02		
7439965	Mn	5.360E-05	7.893E-02	3.157E-01	3.946E-01		
7440666	Zn	7.479E-06	5.779E-03	4.405E-02	4.983E-02		

#### Estimated wind erosion emissions

Emissions from wind erosion of the overburden piles have been estimated using the equation found in AP-42 Section 13.2.5 "Industrial Wind Erosion. Peak wind information was obtained from Edwards Air Force base for the period January 1990 through July 1994. This information was used along with the threshold friction velocities found in Table 13.2.5-2 to determine the emissions per event and determine an average emissions per year per acre. Any one individual event occurs in a one hour period and only one event can occur during a 24-hour period. Only a certain area of the dump can be eroded by wind because the remainder of the overburden dumps will be watered or otherwise treated to form a nonerodible crust.

EF = k x {Summation}(Pi)

 $P = 58(u^* - ut^*)^2 + 25(u^* - ut^*)$  for each event

where:

P = erosion potential corresponding to the observed fastest mile of wind

u\* = friction velocity

ut" = threshold friction velocity 1.02 m/s

Number of events are all days with wind speed in excess of 43.05 mph 1990 1991 1992 1993 1994(1) # Events 6 6 2 3 2

(1) through July 1994

TSP Ann Average 1st Q 2nd Q 3rd Q 4th Q EF tons/acre/year 0.056 0.017 0.031 0.000 0.008

	Sq Meters	Acres
Dump 1	215,625	53.28
Dump 2	433,125	107.03
Dump 3	137,100	33,88
Dump 4	256,850	63,47
Dump 5	504,125	124.57
TOTAL	1,546,825	382.22

Maximum Hourly 55.277 mph

12.109 g/m2

0.054 tons/acre

Assume only 40 percent are active at any one time.

SURFACE AREA (ACRES)

152.89

TSP Annual emissions (lb/yr)
TSP Hourly emissions (lb/hr)

17000

ID# SUBSTANCE LAB TEST LB/HR LB/YR 18540299 Cr 6 5.000E-07 9.450E-07 8.500E-03 7439976 Hg 3.250E-06 6.143E-06 5.525E-02 7782492 Se 1.875E-07 3.544E-07 3.188E-03 8.525E-05 7440382 As 1.611E-04 1.449E+00 7440417 Be 3.125E-07 5.906E-07 5.313E-03 7440439 Cd 3.075E-06 5.812E-06 5.228E-02 7440508 Cu 7.150E-06 1.351E-05 1.216E-01 7439921 Pb 1.303E-05 2.462E-05 2.214E-01 7440020 Ni 2.275E-06 4.300E-06 3.868E-02 7439965 Mn 7.830E-05 1.480E-04 1.331E+00 2.065E-05 7440666 Zn 1.093E-05 1.857E-01

# Estimated emissions from Truck Hauling - Page 1

Particulate emissions from hauling the ore and waste are calculated using AP-42, section 13.2. (Unpaved Roads). The roads will be watered on all operating days to control particulate emiss. Magnesium chloride is also proposed as base control with water as additional control.

The formula found in AP-42 Section 13.2.2 is shown below:

 $E(lb/vmt) = k(5.9) (s/12) (s/30) (W/3)^0.7 (w/4)^0.5 (365-p/365)$ 

k = particulate size mutiplier (pm10=0.36) (TSP=0.8)

s = silt content (%) of road surface

W = mean vehicle weight (tons) 64 tons empty, 154 tons full

S = mean vehicle speed (MPH)

w = number of wheels per vehicle

p = precipitation days per year

Control efficiency factor is calculated on page 2 of truck hauling emissions.

			tpy	tons per truck	miles per trip
Constant	5.9	Ore	6,000,000	145	3.018
k	0.80	Overburden	24,000,000	145	0.983
silt content (%)	3.25		VMT = tpy/(to	ns/truck)*miles	/trip
Speed (MPH)	15.00		VMT, ore	124882	
Vehicle wt. (ton)	115.60		VMT, Waste	162696	_
wheels, #/vehicle	6.00		TOTAL	287578	
precipitation days	15.00				
CE for chemicals	90.00%		TSP	35499	lb/yr
Addtl CE for water	87.24%	Max VMT	per hour	56.79	
Total CE	98.72%		TSP	7.01	lb/hr
LB/VMT	0.12				

ID#	SUBSTANCE	LAB TEST	LB/HR	LB/YR
18540299	Cr 6	5.000E-07	3.505E-06	1.775E-02
7439976	Hg	3.250E-06	2.278E-05	1.154E-01
7782492	Se	1.875E-07	1.314E-06	6.656E-03
7440382	As	8.525E-05	5.976E-04	3.026E+00
7440417	Ве	3.125E-07	2.191E-06	1.109E-02
7440439	Cd	3.075E-06	2.156E-05	1.092E-01
7440508	Cu	7.150E-06	5.012E-05	2.538E-01
7439921	Pb	1.303E-05	9.131E-05	4.624E-01
7440020	Ni	2.275E-06	1.595E-05	8.076E-02
7439965	Mn	7.830E-05	5.489E-04	2.780E+00
7440666	Zn	1.093E-05	7.659E-05	3.878E-01

### Estimated emissions from Truck Hauling - Page 2

Control efficiency for wet suppression on unpaved roads is from AP-40 page 141

C = 100 - (0.8\*p\*d\*t/i)

where

p = potential evaporation, mm/h

p = 0.0049\*110 annual =

0.539

p = 0.0065\*110 summer =

0.715

87.2

87.2

0.88

97.0

(110 is mean annual pan evaporation from chart page 142)

evaporation, inches per year

92.9457 annual

123,295 summer

d = average daytime traffic, (1/h) =	5.7	ore	22.7	waste	
t = time between applications, hours	1.2	summer	1.5	Annual	
i = application intensity, I/m2	1.22		1.22		
Rainfall*, inches per application	0.048		0.048		
Road width	75	ft	75		
Total Water used per application	564	barrels	564		
C, % =	87.24	summer waste	87.97	annual waste	
C, % =	96.81	summer ore	96.99	annual ore	

\* Equivalent rainfall for amount of water applied by truck

Water Truck size 6000 gallons, initially

add'l truck 18000 gallons added after 1.5 years

Water usage for roads 260 gallons per minute

Haulage and water trucks 20 hours per day

Roundtrip road length, ore 15935 feet Roundtrip road length, overburden 5190 feet

### Estimated Emissions from Truck Loading and Unloading

Emission factor for drop operation, AP-42, Section 11.2.3-2, September 1988

E = K \* 0.0032 (U/5)^1.3/(M/2)^1.4

k=Particle size fraction

0.74 TSP

U=Mean wind speed, mph

6:05 Average from Edwards AFB

M=Moisture content,%

3 from applicant

E=	0.00249		Annual	
	Tons	EF	TSP	
Load Ore	6,000,000	0.00249	14,958	
Load Waste	24,000,000	0.00249	59,833	
Unioad Ore	0	0.00249	0	
Unload Waste	24,000,000	0.00249	59,833	

Max Hourly ore loaded Max Hrly wste loaded or unio 2000 2500

Max hourly emissions, ore

4.99 Lb/Hr 6.23

Max hourly emissions, waste

LOADING EMISSIONS

	ORE	WASTE		ORE	WASTE	TOTAL
	LAB TEST	LAB TEST	LB/HR	LB/YR	LB/YR	LB/YR
Cr 6	5.000E-07	5.000E-07	5.610E-06	7.479E-03	2.992E-02	3.740E-02
Hg	1.143E-06	3.250E-06	1.283E-05	1.710E-02	1.945E-01	2.116E-01
Se	1.532E-07	1.875E-07	1.719E-06	2.291 E-03	1.122E-02	1.351E-02
As	4.362E-05	8.525E-05	4.895E-04	6.525E-01	5.101E+00	5.753E+00
Be	5.142E-05	3.125E-07	5.769E-04	7.691 E-01	1.870E-02	7.878E-01
Cd	1.525E-06	3.075E-06	1.711E-05	2.281 E-02	1.840E-01	2.068E-01
Cu	3.767E-06	7.150E-06	4.226E-05	5.634E-02	4.278E-01	4.841E-01
Pb	2.973E-05	1.303E-05	3.336E-04	4.448E-01	7.793E-01	1.224E+00
Ni	2.600E-06	2.275E-06	2.917E-05	3.889E-02	1.361E-01	1.750E-01
Mn	7.830E-05	7.830E-05	8.785E-04	1.171E+00	4.685E+00	5.856E+00
Zn	5.733E-06	1.093E-05	6.433E-05	8.576E-02	6.537E-01	7.394E-01
	UNLOADING E	EMISSIONS				
	UNLOADING E	EMISSIONS WASTE		Ore	Waste	TOTAL
			LB/HR	Ore LB/YR	Waste LB/YR	TOTAL LB/YR
Cr 6	ORE	WASTE	LB/HR 5.610E-06			· - · · · <del>-</del>
Cr 6 Hg	ORE LAB TEST	WASTE LAB TEST		LB/YR	LB/YR	LB/YR
	ORE LAB TEST 5.0000E-07	WASTE LAB TEST 5.0000E-07	5.610E-06	LB/YR 0.000E+00	LB/YR 2.992E-02	LB/YR 2.992E-02
Hg	ORE LAB TEST 5.0000E-07 1.1433E-06	WASTE LAB TEST 5.0000E-07 3.2500E-06	5.610E-06 1.283E-05	LB/YR 0.000E+00 0.000E+00	LB/YR 2.992E-02 1.945E-01	LB/YR 2.992E-02 1.945E-01
Hg Se	ORE LAB TEST 5.0000E-07 1.1433E-06 1.5317E-07	WASTE LAB TEST 5.0000E-07 3.2500E-06 1.8750E-07	5.610E-06 1.283E-05 1.719E-06	LB/YR 0.000E+00 0.000E+00 0.000E+00	LB/YR 2.992E-02 1.945E-01 1.122E-02	LB/YR 2.992E-02 1.945E-01 1.122E-02
Hg Se As	ORE LAB TEST 5.0000E-07 1.1433E-06 1.5317E-07 4.3623E-05	WASTE LAB TEST 5.0000E-07 3.2500E-06 1.8750E-07 8.5250E-05	5.610E-06 1.283E-05 1.719E-06 4.895E-04	LB/YR 0.000E+00 0.000E+00 0.000E+00 0.000E+00	LB/YR 2.992E-02 1.945E-01 1.122E-02 5.101E+00	LB/YR 2.992E-02 1.945E-01 1.122E-02 5.101E+00
Hg Se As Be	ORE LAB TEST 5.0000E-07 1.1433E-06 1.5317E-07 4.3623E-05 5.1417E-05	WASTE LAB TEST 5.0000E-07 3.2500E-06 1.8750E-07 8.5250E-05 3.1250E-07	5.610E-06 1.283E-05 1.719E-06 4.895E-04 5.769E-04	LB/YR 0.000E+00 0.000E+00 0.000E+00 0.000E+00	LB/YR 2.992E-02 1.945E-01 1.122E-02 5.101E+00 1.870E-02	LB/YR 2.992E-02 1.945E-01 1.122E-02 5.101E+00 1.870E-02
Hg Se As Be Cd	ORE LAB TEST 5.0000E-07 1.1433E-06 1.5317E-07 4.3623E-05 5.1417E-05 1.5250E-06	WASTE LAB TEST 5.0000E-07 3.2500E-06 1.8750E-07 8.5250E-05 3.1250E-07 3.0750E-06	5.610E-06 1.283E-05 1.719E-06 4.895E-04 5.769E-04 1.711E-05	LB/YR 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	LB/YR 2.992E-02 1.945E-01 1.122E-02 5.101E+00 1.870E-02 1.840E-01	LB/YR 2.992E-02 1.945E-01 1.122E-02 5.101E+00 1.870E-02 1.840E-01
Hg Se As Be Cd Cu	ORE LAB TEST 5.0000E-07 1.1433E-06 1.5317E-07 4.3623E-05 5.1417E-05 1.5250E-06 3.7667E-06	WASTE LAB TEST 5.0000E-07 3.2500E-06 1.8750E-07 8.5250E-05 3.1250E-07 3.0750E-06 7.1500E-06	5.610E-06 1.283E-05 1.719E-06 4.895E-04 5.769E-04 1.711E-05 4.226E-05	LB/YR 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	LB/YR 2.992E-02 1.945E-01 1.122E-02 5.101E+00 1.870E-02 1.840E-01 4.278E-01	LB/YR 2.992E-02 1.945E-01 1.122E-02 5.101E+00 1.870E-02 1.840E-01 4.278E-01
Hg Se As Be Cd Cu Pb	ORE LAB TEST 5.0000E-07 1.1433E-06 1.5317E-07 4.3623E-05 5.1417E-05 1.5250E-06 3.7667E-06 2.9733E-05	WASTE LAB TEST 5.0000E-07 3.2500E-06 1.8750E-07 8.5250E-05 3.1250E-07 3.0750E-06 7.1500E-06 1.3025E-05	5.610E-06 1.283E-05 1.719E-06 4.895E-04 5.769E-04 1.711E-05 4.226E-05 3.336E-04	LB/YR 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	LB/YR 2.992E-02 1.945E-01 1.122E-02 5.101E+00 1.870E-02 1.840E-01 4.278E-01 7.793E-01	LB/YR 2.992E-02 1.945E-01 1.122E-02 5.101E+00 1.870E-02 1.840E-01 4.278E-01 7.793E-01
Hg Se As Be Cd Cu Pb	ORE LAB TEST 5.0000E-07 1.1433E-06 1.5317E-07 4.3623E-05 5.1417E-05 1.5250E-06 3.7667E-06 2.9733E-05 2.6000E-06	WASTE LAB TEST 5.0000E-07 3.2500E-06 1.8750E-07 8.5250E-05 3.1250E-07 3.0750E-06 7.1500E-06 1.3025E-05 2.2750E-06	5.610E-06 1.283E-05 1.719E-06 4.895E-04 5.769E-04 1.711E-05 4.226E-05 3.336E-04 2.917E-05	LB/YR 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	LB/YR 2.992E-02 1.945E-01 1.122E-02 5.101E+00 1.870E-02 1.840E-01 4.278E-01 7.793E-01 1.361E-01	LB/YR 2.992E-02 1.945E-01 1.122E-02 5.101E+00 1.870E-02 1.840E-01 4.278E-01 7.793E-01 1.361E-01

### SUM OF TRUCK LOADING AND UNLOADING

			ORE	WASTE	Total
ID#	SUBSTANCE	LB/HR	LB/YR	LB/YR	LB/YR
18540299	Cr 6	5.610E-06	7.479E-03	5.983E-02	6.731E-02
7439976	Hg	1.283E-05	1.710E-02	3.889E-01	4.060E-01
7782492	Se	1.719E-06	2.291E-03	2.244E-02	2.473E-02
7440382	As	4.895E-04	6.525E-01	1.020E+01	1.085E+01
7440417	Ве	5.769E-04	7.691E-01	3.740E-02	8.065E-01
7440439	Cd	1.711E-05	2.281E-02	3.680E-01	3.908E-01
7440508	Cu	4.226E-05	5.634E-02	8.556E-01	9.120E-01
7439921	Pb	3.336E-04	4.448E-01	1.559E+00	2.003E+00
7440020	Ni	2.917E-05	3.889E-02	2.722E-01	3.111E-01
7439965	Mn	8.785E-04	1.171E+00	9.370E+00	1.054E+0
7440666	Zn	6.433E-05	8.576E-02	1.307E+00	1.393E+00

### **GOLDEN QUEEN MINING COMPANY**

### Estimated wind erosion emissions from existing disturbances

Emissions from wind erosion of the overburden piles have been estimated using the equation found in AP-42 Section 13.2.5 "Industrial Wind Erosion. Peak wind information was obtained from Edwards Air Force base for the period January 1990 through July 1994. This information was used along with the Threshold Friction velocities found in table 13.2.5-2 to determine the emissions per event and determine an average emissions per year per acre.

EF = k x {Summation}(Pi)

 $P = 58(u^* - ut^*)^2 + 25(u^* - ut^*)$  for each event

where:

P = erosion potential corresponding to the observed fastest mile of wind

u\* = friction velocity

ut\* = threshold friction veloci 1.02 m/s

Number of events are all days with wind speed in excess of 43.05 mph 1990 1991 1992 1993

1990 1991 1992 1993 1994(1) #Events 6 6 2 3 2

(1) through July 1994

PM10 Ann Average 1st Q 2nd Q 3rd Q 4th Q EF tons/acre/year 0.028 0.008 0.016 0.000 0.004

Acres
Other Disturbances 188.00
TOTAL 188.00

SURFACE AREA (ACRES) 188.00

PM10 Annual emissions (lb/yr) 10,500

### GOLDEN QUEEN MINING COMPANY

### Estimated wind erosion emissions from existing disturbances

Emissions from wind erosion of the existing tailings pile have been estimated using the equation found in AP-42 Section 13.2.5 "Industrial Wind Erosion. Peak wind information was obtained from Edwards Air Force base for the period January 1990 through July 1994. This information was used along with the Threshold Friction velocities found in table 13.2.5-2 to determine the emissions per event and determine an average emissions per year per acre. The tailings pile is composed of fine material remaining after historical mining activity. The threshold friction velocity of this type of material is expected to resemble ground coal with a lower threshold than the normal overburden piles.

EF = k x {Summation}(Pi)

 $P = 58(u^* - ut^*)^2 + 25(u^* - ut^*)$  for each event

where:

P = erosion potential corresponding to the observed fastest mile of wind

u\* = friction velocity

_ ut* =	threshold frict	tion velocity	0.55 m/s	5		
Number of events a	re all days wit	h wind speed in	excess of	23.21 mj	oh	
	1990	1991	1992	1993	1994(1)	
# Events	160	151	184	229	163	4
(1) through July 1994						
PM10	٩	nn Average	1st Q	2nd Q	3rd Q	4th Q
EF tons/acre/year		2.866	0.597	1.227	0.534	0.509

Tailings Pile	Acres 22:00
TOTAL	22.00

SURFACE AREA (ACRES)

22.00

PM10

Annual emissions (lb/yr)

126,100



BEE-Line ISCST3 "BEEST" Version 4.0

Input File - G:\BEZST\GQ\FENCE.DTA
Output File - G:\BEEST\GQ\FENCE.LST
Met File - g:\METDATA\SOL\SOL91M.AS

Number of sources - 40
Number of source groups - 53
Number of receptors - 367

#### \*\*\* POINT SOURCE DATA \*\*\*

-	SOURCE	NUMBER EMISSION RATE BASE STACK STA PART. (GRAMS/SEC) X Y FLEV. HEIGHT TEM CATS. (METERS) (METERS) (METERS) (DE	AP. EXIT VEL. DIAMETER EXISTS SCALAR VARY			
	BGHSE1	0 0.18050E+00 390660.0 3872330.0 908.3 6.71 30	25.00 21.53 1.00 NO			
		*** VOLUME SOURCE DATA	www.			
	SOURCE ID	NUMBER EMISSION RATE BASE RELEASE FART. (GRAMS/SEC) X Y ELEV. HEIGHT CATS. (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)	INIT. INIT. EMISSION RATE SY SZ SCALAR VARY ETERS) (METERS) BY			
	BLSPIT1 BLSPIT2 BLSPIT3 BLSPIT4 BLSPIT5 BLSPIT6	0 0.19780E+02 390553.0 3872050.0 975.4 50.00 0 0.19780E+02 391726.0 3871973.0 1127.8 50.00 0 0.19780E+02 391015.0 3871607.0 1097.3 50.00 0 0.19780E+02 391400.0 3871240.0 1097.3 50.00	93.02 23.26 SEASON 93.02 23.26 SEASON 93.02 23.26 SEASON 93.02 23.26 SEASON 93.02 23.26 SEASON 93.02 23.26 SEASON			
		*** AREA SOURCE DATA **	···			
	SOURCE	NUMBER EMISSION RATE COORD (SW CORNER) BASE RELEASE PART. (GRAMS/SEC X Y ELEV. HEIGHT O CATS. /METER**2) (METERS) (METERS) (METERS) (METERS) (	OF AREA OF AREA OF AREA SZ SCALAR VARY			
	DRLPITION DRLPIT	0 0.30182E-07 390876.0 3871798.0 1036.2 2.00 10 0.30171E-07 390640.0 3871452.0 1097.3 2.00 10 0.30171E-07 391200.0 3871050.0 1097.3 2.00 10 0.30171E-07 391200.0 3871050.0 1097.3 2.00 10 0.49140E-06 390830.0 3872375.0 960.1 6.00 10 0.49140E-06 390421.0 3872091.0 975.4 6.00 10 0.49143E-06 390421.0 3872091.0 975.4 6.00 10 0.49143E-06 390876.0 3871432.0 1097.3 6.00 10 0.49143E-06 391200.0 3871050.0 1097.3 6.00 10 0.49138E-06 391200.0 3871050.0 1097.3 6.00 10 0.11676E-05 390421.0 3872091.0 975.4 2.00 10 0.11678E-05 390876.0 3871973.0 1036.2 2.00 10 0.11678E-05 390876.0 3871973.0 1036.2 2.00 10 0.11679E-05 391200.0 3871050.0 1097.3 2.00 10 0.11679E-05 391200.0 3871240.0 1097.3 2.00 11679E-05 391200.0 3871240.0 1097.3 2.00 11679E-05 390800.0 3871240.0 1097.3 2.00 11679E-05 391200.0 3871240.0 1097.3 2.00 11679E-05 390800.0 3871250.0 1097.3 2.00 11679E-05 391200.0 3871250.0 1097.3 2.00 11679E-05 391200.0 3871250.0 1097.3 2.00 11679E-06 390885.0 3870573.0 1127.8 2.00 115379E-06 390886.0 3870573.0 1127.8 2.00 115379E-06 390364.0 3870573.0 1127.8 4.00 115379E-06 390364.0 3870573.0 1127.8 4.00 115379E-06 390386.0 3870573.0 1127.8 4.00 115379E-06 390386.	300.00 457.00 0.00 0.00			
		*** SOURCE IDs DEFINING SOURCE	CE GROUPS ***			
	GROUP ID SOURCE IDS					
	ALL	DRLPITI , DRLPIT2 , DRLPIT3 , DRLPIT4 , DRLPIT5 , DRLPIT6 , TRLPIT1 , TRLPIT2 , TRLPIT3 , TRLPIT4 , TRLPIT5 , TRLPIT6 , BGHSE1 , TRU WST1, TRU WST2, TRU WST3, TRU WST4, TRU WST5, ERSN W2 , ERSN W3 , ERSN W4 , ERSN W5 ,	BLSPIT1 , BLSPIT2 , BLSPIT3 , BLSPIT4 , BLSPIT5 , BL HAUL 1 , HAUL 2 , HAUL 3 , HAUL 4 , HAUL 5 , HA DZG_W1 , DZG_W2 , DZG_W3 , DZG_W4 , DZG_W5 , ER			
<b>.</b>	DRLPITI	DRLPIT1 ,				
•	DRLPIT2	DRLPIT2 ,				
	DRLPIT3	DRLPIT3 ,				

```
DRLPIT4
               DRLPIT4 .
DRLPITS
               DRLPITS ,
DRLPIT6
               DRLPIT6 .
               BLSPIT1 .
BLSPIT1
BLSPIT2
               BLSPIT2 .
BLSPIT3
               BLSPIT3
BLSPIT4
               BLSPIT4 .
BLSPIT5
               BLSPITS .
BLSPIT6
               BLSPIT6 .
TRLPIT1
               TRLPIT1
TRLPITZ
               TRLPIT2 .
TRLPIT3
               TRLPIT3 .
TRLPIT4
               TRLPIT4 .
TRLPITS
               TRLPITS .
TRLPIT6
               TRLPIT6 .
HAUL_1
               HAUL_1 ,
HAUL_2
               HAUL_2 ,
HAUL_3
               HAUL_3 ,
HAUL_4
               HAUL_4 ,
BAUL_S
               HAUL_5 ,
HAUL_6
               HAUL_6 ,
BGESE1
               BGESE1 ,
TRU_WST1
               TRU_WST1,
TRU_WST2
               TRU_WST2,
TRU_WST3
               TRU WST3,
TRU_WST4
               TRU_WST4,
TRU_WSTS
               TRU_WST5,
DZG_W1
               DZG W1 .
DZG_W2
               DZG_W2 ,
DZG_W3
               DZG_W3 ,
DZG W4
               DZG W4 .
DZG_WS
               DZG_W5 ,
ERSN_W1
               ERSN_W1 ,
               ERSN_W2 ,
ERSN W2
ERSN W3
               ERSN_W3 ,
ERSN_W4
                ERSN_W4 ,
ERSN_WS
                ERSN_W5 ,
               DRLPIT1 , DRLPIT2 ,
HAUL 2 , HAUL 3 ,
DZG_W3 , DZG_W4 ,
PIT_1
                                                              DRLPIT4 .
HAUL 5 .
ERSN_W1 .
                                               DRLPIT3 ,
                                                                             DRLPITS
BGHSE1
ERSN_W2
                                                                                            BLSPIT1 , TRLPIT1 ,
TRU WST1, TRU WST2,
ERSN_W3 , ERSN_W4 ,
                                                                                                                           TRLPIT2 , TRLPIT3 , TRLPIT4 , TRLPIT5 , TRU WST3. TRU WST4, TRU WST5, DZG W1 , ERSÑ_W5 .
                                           , HAUL 4
, DZG_WS
PIT_2
                DRLPIT1 , DRLPIT2 ,
                                                                             DRLPITS
BGESE1
                                               DRLPIT3
                                                              DRLPIT4
                                                                                             BLSPIT2 , TRLPIT1 , TRLPIT2 , TRLPIT3 , TRLPIT4 , TRLPIT5 , HAUL 1 TRU WST1, TRU WST2, TRU WST3, TRU WST4, TRU WST5, DZG W1 , DZG W2 ERSN W3 , ERSN W4 , ERSN W5 ,
                HAUL 2 , HAUL 3
DZG_W3 , DZG_W4
                                                              HAUL 5
ERSN_W1
                                              HAUL 4
DZG W5
                                                                             ERSN_W2
PIT_3
                DRLPIT1 , TRLPIT6 .
                               DRLPIT2
HAUL 1
                                                                              DRLPIT5
                                                                                             DRLPIT6
HAUL 5
DZG_W5
                                               DRLPIT3
                                                               DRLPIT4
                                                                                                             BLSFIT3
HAUL 6
ERSN_W1
                                                                                                                            TRLPIT1 , TRLPIT2 .
BGBSE1 , TRU WST1,
ERSN_W2 , ERSN_W3 ,
                                                                                                                                                          TRLPIT3 , TRLPIT4 , TRLPIT5 ; TRU WST2, TRU WST3 , TRU WST4; ERSN_W4 , ERSN_W5 ,
                                                              HAUL 3
DZG_W3
                                               HAUL 2
DZG W2
                TRU_WSTS, DZG_W1
                                                                             DZG_R4
PIT_4
                DRLPIT1 ,
                               DRLPIT2
                                               DRLPIT3
                                                               DRLPIT4
                                                                                             DRLPIT6
HAUL 5
                                                                                                             BLSPIT4
                                                                              DRLPITS
                                                                                                                            TRLPIT1
                                                                                                                                            TRLPIT2
                                                                                                                                                          TRLPIT3 , TRLPIT4 , TRLPIT5 , TRU WST2 , TRU WST3 , TRU WST4 , ERSN_W4 , ERSN_W5 ,
                                              HAUL 2
DZG W2
                                                               HAUL 3
DZG_W3
                TRLPIT6 , HAUL 1
TRU_WSTS, DZG_W1
                                                                              HAUL 4
DZG_W4
                                                                                                                                           TRU WST1,
ERSN_W3,
                                                                                                             HAUL 6
ERSN_W1
                                                                                                                            BGBSE1
ERSN_W2
                                                                                              DZG_95
PIT 5
                DRLPIT1 , DRLPIT2
TRLPIT6 , HAUL 1
TRU_WST5, DZG_W1
                DRLPITI ,
                                               DRLPIT3
                                                               DRLPIT4
HAUL_3
                                                                                             DRLPIT6
HAUL 5
DZG_W5
                                                                                                             BLSPIT5
                                                                                                                            TRLPIT1 ,
                                                                              DRLPITS
                                                                                                                                           TRLPIT2 , TRLPIT3 , TRLPIT4 , TRU WST1, TRU WST2, TRU WST3, ERSN_W3 , ERSN_W4 , ERSN_W5 ,
                                                                                                                                                                                          TRLPITS
TRU_WST4;
                                                                                                             HAUL 6
ERSN_WI
                                               HAUL
                                                                              HAUL
                                               DZG W2
                                                               DZG_W3
                                                                              DZG W4
                                                                                                                            ERSN_W2
 PIT 6
                DRLPIT3 ,
                               DRLPIT4
                                               DRLPITS .
HAUL 6 .
ERSN_W1 .
                                                                              BLSPIT6 .
TRU WST1,
ERSN_W3 .
                                                                                             TRLPIT3 . TRLPIT4 . TRU WST3 . ERSN_W4 . ERSN_W5 .
                                                               DRLPIT6
                                                                                                                            TRLPITS , TRLPIT6 , HAUL 1 TRU_WST4, TRU_WST5, DZG_W1
                                                                                                                                                                          HAUL 2
DZG W2
                                                               BGHSE1
                                                                                                                                                                                          DZG W3
```

ERSN\_W2 ;

```
DRILLING DRLPIT1 DRLPIT2 DRLPIT3 DRLPIT4 DRLPIT5 DRLPIT6 DRLPI
```

### THE SUMMARY OF HIGHEST 24-ER RESULTS

#### -- CONC OF PM-10 IN MICROGRAMS/M-3

GROUP ID	AVERAGE CONC (YM*DDHH)	RECEPTOR (XR. YR. ZELEV.	ZFLAG) OF TYPE GRID-ID
	IS 27.54688 ON 91113024: AT ( IS 0.19440 ON 91010424: AT ( IS 0.08088 ON 91030424: AT (	391247.00, 3870518.00, 969. 390203.00, 3872720.00, 862. 390669.00, 3872895.00, 859.	58. 0.00) DC NA
DRLPITS HIGH IST HIGH VALUE DRLPIT4 HIGH IST HIGH VALUE	IS 0.61132 ON 91102924: AT ( IS 0.25134 ON 91102224: AT (	391846.00, 3872159.00, 967. 392694.00, 3871346.00, 899.	74. 0.00) DC NA
DRLPITS HIGH LST HIGH VALUE	IS 0.16775e ON 91120924: AT ( IS 0.16652e ON 91120924: AT (	391842.00, 3870521.00, 950. 391445.00, 3870519.00, 923.	98, 0.00) DC NA .54, 0.00) DC NA
BLSPIT2 HIGH 1ST HIGH VALUE	IS 2.57505c ON 91122724: AT ( IS 2.87681 ON 91112424: AT ( IS 2.63266 ON 91111424: AT (	391044.00, 3870310.00, 1005, 392607.00, 3870689.00, 1048, 391846.00, 3872159.00, 967.	.51, 0.00) DC NA
BLSPIT4 HIGH 1ST HIGH VALUE BLSPIT5 HIGH 1ST HIGH VALUE	IS 1.48739 ON 91010624: AI ( IS 1.59179 ON 91121324: AI (	390904.00, 3872902.00, 859, 392010.00, 3870521.00, 969,	.54, 0.00) DC NA
BLSPIT6 HIGH 1ST HIGH VALUE	IS 1.38981 ON 91121324: AT ( IS 2.25655 ON 91010424: AT (	391643.00, 3870520.00, 932 390203.00, 3872720.00, 862	.58. 0.00) DC NA
TRLPITZ HIGH 1ST HIGH VALUE TRLPIT3 HIGH 1ST HIGH VALUE TRLPIT4 HIGH 1ST HIGH VALUE	IS 1.19805 ON 91030424: AT ( IS 4.76046 ON 91102924: AT ( IS 3.72557 ON 91102224: AT (	390669.00, 3872895.00, 859 391846.00, 3872159.00, 967 392694.00, 3871346.00, 899	.54, 0.00) DC HA .74, 0.00) DC HA .16, 0.00) DC HA
TRLPITS HIGH 1ST HIGH VALUE TRLPITS HIGH 1ST HIGH VALUE	IS 2.44488c ON 91120924: AT ( IS 2.42886c ON 91120924: AT (	391842.00, 3870521.00, 950 391445.00, 3870519.00, 923	.98. 0.00) DC NA .54. 0.00) DC NA
HAUL 1 HIGH 1ST HIGH VALUE HAUL 2 HIGH 1ST HIGH VALUE HAUL 3 HIGH 1ST HIGH VALUE	IS 2.95072c ON 91102724: AT ( IS 0.85201 ON 91010424: AT (	390352.00, 3872832.00, 859	.68, 0.00) DC HA .54, 0.00) DC HA .74, 0.00) DC HA
HAUL 4 HIGH 1ST HIGH VALUE HAUL 5 HIGH 1ST HIGH VALUE	IS 6.13475 ON 91102924: AT ( IS 3.53348 ON 91012224: AT ( IS 1.56902c ON 91120924: AT (	392670.00, 3871765.00, 883	.74. 0.00) DC HA .92. 0.00) DC HA .98. 0.00) DC NA
BAUL 6 HIGH 1ST HIGH VALUE	IS 1.56599c ON 91120924: AT ( IS 2.00324 ON 91111124: AT (	391445.00, 3870519.00, 923 391846.00, 3872159.00, 967	.54. 0.00) DC NA .74. 0.00) DC NA
TRU WST1 HIGH 1ST HIGH VALUE TRU WST2 HIGH 1ST HIGH VALUE TRU WST3 HIGH 1ST HIGH VALUE	IS 2.51933 ON 91092924: AT ( IS 3.65816 ON 91112424: AT ( IS 4.44286c ON 91120924: AT (	391049.00, 3870518.00, 950	.78, 0.00) DC NA .98, 0.00) DC NA .98, 0.00) DC NA
TRU WST4 HIGH 1ST HIGH VALUE TRU WST5 HIGH 1ST HIGH VALUE	IS 6.14394c ON 91120924: AT ( IS 6.68180 ON 91112424: AT (	391643.00, 3870520.00, 932 392694.00, 3871346.00, 899	.69, 0.00) DC NA .16, 0.00) DC NA
DZG W1 HIGH IST HIGH VALUE DZG W2 HIGH IST HIGH VALUE DZG W3 HIGH IST HIGH VALUE	IS 0.23891 ON 91092924: AT ( IS 0.37006 ON 91112424: AT ( IS 0.31858 ON 91010124: AT (	391049.00, 3870518.00, 950	.78, 0.00) DC NA 1.98, 0.00) DC NA 1.98. 0.00) DC NA
DZG WA HIGH IST HIGH VALUE DZG WA HIGH IST HIGH VALUE	IS 0.47724c ON 91120924: AI (IS 0.53416c ON 91120924) AI (IS 0.53416c ON 91120924) AI (IS 0.53416c ON 91120924) AI (IS 0.53416c ON 911200000000000000000000000000000000000	391643.00, 3870520.00, 932	1.69, 0.00) DC NA 1.16. 0.00) DC NA
ERSN W1 HIGH LST HIGH VALUE ERSN W2 HIGH LST HIGH VALUE ERSN W3 HIGH LST HIGH VALUE	IS 0.91196 ON 91092924: AT ( IS 1.47210 ON 91112424: AT (	391049.00, 3870518.00, 950	1.78. 0.00) DC NA 1.98, 0.00) DC NA
ERSN'WA HIGH 15T HIGH VALUE ERSN'WA HIGH 15T HIGH VALUE ERSN'WAS HIGH 15T HIGH VALUE	IS 1.09738 ON 91122424: AT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	391643.00, 3870520.00, 932	7.26, 0.00) DC NA 2.69, 0.00) DC NA 7.16, 0.00) DC NA
PIT I HIGH LST HIGH VALUE PIT 2 HIGH LST HIGH VALUE	IS 24.47840c ON 91120924: AT IS 24.38030c ON 91120924: AT	391643.00, 3870520.00, 933 391643.00, 3870520.00, 933	2.69, 0.00) DC NA 2.69, 0.00) DC NA
PIT 3 HIGH IST HIGH VALUE PIT 4 HIGH IST HIGH VALUE PIT 5 HIGH IST HIGH VALUE	IS 25.31984c ON 91120924: AT	391643.00, 3870520.00, 93	2.69, 0.00) DC HA 2.69, 0.00) DC NA 2.69, 0.00) DC NA
PIT 6 HIGH IST HIGH VALUE DRIFLING HIGH IST HIGH VALUE	IS 26.03649e ON 91120924: AT IS 0.86478 ON 91102924: AT	( 391643.00, 3870520.00, 93 ( 391846.00, 3872159.00, 96	2.69, 0.00) DC NA 7.74, 0.00) DC NA
LOADING HIGH IST HIGH VALUE HAULING HIGH IST HIGH VALUE UNLOADG HIGH IST HIGH VALUE	IS 8.63301 ON 91102924: AT	( 391846.00, 3872159.00, 96	0.98, 0.00) DC NA 7.74, 0.00) DC NA 0.98, 0.00) DC NA
DOZING HIGH 1ST HIGH VALUE EROSION HIGH 1ST HIGH VALUE	IS 0.74727c ON 91120924: AT	( 391049.00, 3870518.00, 95	0.98, 0.00) DC NA 0.98, 0.00) DC NA

• •



```
**BEE-Line Software: BEEST for Windows data input file
                   Date: 11/12/96 Time: 11:06:15 AM
NO ECEO
 BEE-Line ISCST3 "REEST" Version 4.0
Input File - G: SEEST GOOCLASSI.DTA
Output File - G: **REEST**GQ**CLASS1.LST
  Met File - 8: CETDATA SOLOSOL91M. AS
 *** Message Summary For ISCO Model Setup ***
 Summary of Total Messages -----
A Total of
                    0 Fatal Error Message(s)
A Total of
                    2 Warming Message(s)
A Total of
                  0 Informational Message(s)
  FATAL ERROR MESSAGES
             *** NONE ***
   WARNING MESSAGES
SO W391 59 AFARM :Aspect ratio (L/W) of area source greater than 10 HAUL 3
SO W391
          61 APARM :Aspect ratio (L/W) of area source greater than 10 HAUL_4
*** SETUP Finishes Successfully ***
*** ISCST3 - VERSION 96113 *** GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT
*** Class 1 Analysis - 1991 Met - 6 MMTPY Bourly Average
                                                                                                                 11/12/96
                                                                                                                  11:06:29
                                                                                                                 PAGE 1
**MODELOPIs: CONC
                                       RURAL ELEV
                                                                                            MSGZRO
                                              MODEL SETUP OPTIONS SUMMARY
***Intermediate Terrain Processing is Selected
**Model Is Setup For Calculation of Average CONCentration Values.
   - SCAVENGING/DEPOSITION LOGIC --
***Model Uses NO DRY DEPLETION. DDPLETE = F
**Model Uses NO WET DEPLETION. WDPLETE = F
**NO WEI SCAVENGING Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations
**Model Uses RURAL Dispersion.
**Model Uses User-Specified Options:
          1. Final Plume Rise.
          2. Stack-tip Downwash.
          3. Budyancy-induced Dispersion.
4. Calms Processing Routine.
          5. Missing Data Processing Routine.
          6. User-Specified Wind Profile Exponents.
          7. User-Specified Vertical Potential Temperature Gradients.
**Model Accepts Receptors on ELEV Terrain.
**Model Assumes No FLAGPOLE Receptor Heights.
**Model Calculates | Short Term Average(s) of: 24-ER
    and Calculates ANNUAL Averages
**This Run Includes: 40 Source(s);
                                       7 Source Group(s); and 2 Receptor(s)
**The Model Assumes A Follutant Type of: PM-10
**Model Set To Continue RUNning After the Setup Testing.
**Output Outions Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
```

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword) Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)

Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours

m for Missing Hours b for Both Calm and Missing Hours

Misc. Inputs: Anem. Hgt. (m) = 10.00; Decay Coef. = 0.0000 Rot. Angle = 180.0

Emission Units - GRAMS/SEC : Emission Rate Unit Factor = 0.10000E+07

Output Units = MICROGRAMS/M\*\*3

'Input Runstream File: G: OHEESTOGOCIASS1.DTA ; \*\*Output Frint File: G: \*\*BEEST\*\*GQ\*\*CLASS1.LST

\*\* ISCST3 - VERSION 96113 \*\*\* GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT

Class 1 Analysis - 1991 Met - 6 MMTTY Hourly Average 11:06:29

11/12/96

PAGE 2 MODELOPTs: CONC RURAL ELEV MSGPRO

POINT SOURCE DATA

	NUMBER	EMISSION RATE			BASE	STACK	STACK	STACK	STACK	BUILDING	EMISSION	RATE
SOURCE	PART.	(,	X	Y	ELEV.			EXII VEL.			SCALAR '	VARY
10	CAIS.		(METERS)	(METERS)	(METERS)	(METERS)	(DEG.X)	(M/SEC)	(METERS)		BY	

BGBSE1 0 0.18050E+00 390660.0 3872330.0 908.3 6.71 305.00 21.53 1.00

-- ISCST3 - VERSION 96113 ---\*\*\* GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT 11/12/96

\*\*\* Class 1 Analysis - 1991 Met - 6 MMTFY Hourly Average 11:06:29 PAGE 3

MODELOFTs: CONC RURAL ELEV MSGZRO

VOLUME SOURCE DATA

PARI. CAIS.	EMISSION RATE (GRAMS/SEC)	x	y (Meters)	EASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INII. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY		
						• • • • •				-
0	0.19780E+02	390300.0	3872374.0	960.1	50.00	93.02	23.25	SEASON		
a	0.19780E+02	390553.0	3872050.0	975.4	50.00	93.02	23.26	SEASON		
a	0.19780E+02	391726.0	3871973.0	1127.8	50.00	93.02	23.26	SEASON		
0	0.19780E+02	391015.0	3871607.0	1097.3	50.00	93.02	23.26	SEASON		
a	0.19780E+02	391400.0	3871240.0	1097.3	50.00	93.02	23.26	SEASON		
Œ	0.19780E+02	391000.0	3871240.0	1097.3	50.00	93.02	23.26	SEASON		
•	PART. CAIS. 0 0 0	PART. (GRAMS/SEC) CATS.  0 0.19780E+02 0 0.19780E+02 0 0.19780E+02 0 0.19780E+02 0 0.19780E+02	CATS. (METERS)  0 0.19780E+02 390300.0 0 0.19780E+02 390553.0 0 0.19780E+02 391726.0 0 0.19780E+02 391015.0 0 0.19780E+02 391400.0	PART. (GRAMS/SEC) X Y CATS. (METERS) (METERS)  0 0.19780E+02 390300.0 3872374.0 0 0.19780E+02 390553.0 3872050.0 0 0.19780E+02 391726.0 3871973.0 0 0.19780E+02 391015.0 3871607.0 0 0.19780E+02 391400.0 3871240.0	PART. (GRAMS/SEC) X Y ELEY. CATS. (METERS) (METERS) (METERS)  0 0.19780E+02 390300.0 3872374.0 960.1  0 0.19780E+02 390553.0 3872050.0 975.4  0 0.19780E+02 391726.0 3871973.0 1127.8  0 0.19780E+02 391015.0 3871607.0 1097.3  0 0.19780E+02 391400.0 3871240.0 1097.3	PART. (GRAMS/SEC) X Y ELEV. HEIGHT (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)  0 0.19780E+02 390300.0 3872374.0 960.1 50.00 0 0.19780E+02 391726.0 3871273.0 1127.8 50.00 0 0.19780E+02 391726.0 3871607.0 1097.3 50.00 0 0.19780E+02 391400.0 3871240.0 1097.3 50.00	PART. (GRAMS/SEC) X Y ELEY. HEIGHT SY (METERS) (	PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ (METERS) (METERS	PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ SCALAR VARY CATS. (METERS) (METERS	PART. (GRAMS/SEC) X Y ELEV. HEIGHT SY SZ SCALAR VARY (METERS) (MET

\*\*\* ISCST3 - VERSICH 96113 \*\*\* GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT 11/12/96 \*\*\* Class 1 Analysis - 1991 Met - 6 MMTPY Equaly Average

11:06:29 PAGE 4

\*MODELOPTS: CONC RURAL ELEV MSGZRO

\*\*\* AREA SOURCE DATA \*\*\*

SOURCE ID	NUMBER PART. CATS.	PMISSION RATE (GRAMS/SEC /MEIER**2)	COORD (SW CORNER) X Y (METERS) (METERS)	Base Elev. (Meters)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
DRLPIT1	Œ	0.30170E-07	390138.0 3872375.0	960.1	2.00	400.00	250.00	45_00	0.00	SEASON
DRLFIT2	Q	0.301702-07	390421.0 3872091.0	975.4	2.00	400.00	250.00	45.00	0.00	SEASON
DRLPITS	¢	0.30182E-07	390876.0 3871798.0	1036.2	2.00	1100.00	350.00	0.00	0.00	SEASON
DRIPIT4	0	0.30942E-07	390640.0 3871432.0	1097.3	2.00	1350.00	350.00	0.00	0.00	SEASON
DRLPITS	Œ	0.30171E-07	391200.0 3871050.0	1097.3	2.00	400.00	380.00	0.00	0.00	SEASON
DRLPITS	G	0.30171E-07	390800.0 3871050.0	1097.3	2.00	400.00	380.00	0.00	0.00	SEASON
TRLPITI	a	0.49140E-06	390138.0 3872375.0	960.1	5.00	400.00	250.00	45.00	0.00	SEASON
TRLFITZ	3	0.49140E-06	390421.0 3872091.0	975.4	6.00	400.00	250.00	45.00	0.00	SEASON
TRLPITS	Q	0.49143E-06	390876.0 3871798.0	1036.2	6.00	1100.00	350.00	0.00	0.00	SEASON
TRLPIT4	α	0.49143E-06	390640.0 3871432.0	1097.3	6.00	1350.00	350.00	0.00	0.00	SEASON
TRLPTIS	Œ	0.49138E-06	391200.0 3871050.0	1097.3	6.00	400,00	380.00	0.00	0.00	SEASON
TRLPIT6	G	0.49138E-06	390800.0 3871050.0	1097.3	6.00	400.00	380.00	0.00	0.00	SEASON
HAUL_1	a	0.11676Z-05	390138.0 3872375.0	960.1	2.00	400.00	62.50	45.00	0.00	SEASON

```
SEASON
                                                                                                                                                       400.00
1100.00
                                                                                                                                                                                                           45.00
                                                                                                                                                                                                                                 0.00
                                  0 0.11676E-05 390421.0 3872091.0 975.4
                                                                                                                                                                                     62.50
                                                                                                                                       2.00
    HAUL 2
                                                                                                                                                                                                                                                       SEASON
                                                                                                                                                                                                                                  0.00
                                                                                                                                                                                     87.50
                                                                                                                                                                                                             0.00
                                          0.11678E-05 390876.0 3871973.0 1036.2
                                                                                                                                           2.00
    HAUL_3
                                                                                                                                                                                                                                                       SEASON
                                                                                                                                                                                                             0 00
                                                                                                                                                                                                                                  0.00
                                          0.11674E-05 390640.0 3871607.0 1097.3
                                                                                                                                                        1350.00
                                                                                                                                                                                     87.50
                                                                                                                                            2.00
    HAUL 4
                                  a
                                                                                                                                                                                                                                  0.00
                                                                                                                                                                                                                                                       SEASON
                                                                                                                                                                                                             0.00
                                                                                                                                                              400.00
                                                                                                                                                                                     95.00
    HAUL_5
                                          0.11679E-05 391200.0 3871240.0
                                                                                                                    1097.3
                                                                                                                                            2 00
                                  n
                                                                                                                                                                                                                                                       SEASON
                                                                                                                                                                                                             0.00
                                                                                                                                                                                                                                  0.00
                                                                                                                    1097.3
                                                                                                                                                              400.00
                                                                                                                                                                                     95.00
                                          0.11679E-05 390800.0 3871240.0
                                                                                                                                            2.00
                                  a
    HAUL 6
                                                                                                                                                                                                                                                       SEASON
                                                                                                                                                                                                                                  0.00
                                                                                                                                                                                                            -5.00
                                          0.24028E-06 390273.0 3871355.0
                                                                                                                      975.4
                                                                                                                                            2.00
                                                                                                                                                              375.00
                                                                                                                                                                                   575.00
    TRU WST1
                                  O
                                                                                                                                                                                                                                                       SEASON
                                                                                                                                                                                                         -10.00
                                                                                                                                                                                                                                  0.00
                                          0.24035E-06 390364.0 3870483.0
                                                                                                                    1066.8
                                                                                                                                            2.00
                                                                                                                                                              525.00
                                                                                                                                                                                   825.00
    TRU WST2
                                  0
                                                                                                                                                                                                             0.00
                                                                                                                                                                                                                                  0.00
                                                                                                                                                                                                                                                       SEASON
                                                                                                                                                              300.00
                                                                                                                                                                                   457.00
                                          0.24026E-06 390885.0 3870573.0
                                                                                                                    1127.8
                                                                                                                                            2.00
    TRU WST3
                                  O
                                                                                                                                                                                                                                                       SEASON
                                                                                                                                                                                                                                  0.00
                                                                                                                                                                                                              0.00
                                          0.24030E-06 391190.0 3870573.0
                                                                                                                                                            550.00
                                                                                                                                                                                   467.00
                                                                                                                                            2.00
    TRU WST4
                                  0
                                                                                                                                                                                                                                                       SEASON
                                                                                                                                                                                                         -10.00
                                                                                                                                                                                                                                  0.00
                                                                                                                                                              545.00
                                                                                                                                                                                   925.00
                                          0.24022E-06 392143.0 3871161.0
                                                                                                                    1005.8
                                                                                                                                            2.00
    TRU WSTS
                                  ٥
                                                                                                                                                                                                           -5.00
                                                                                                                                                                                                                                  0.00
                                                                                                                                                                                                                                                       SEASON
                                          0.15379E-06 390273.0 3871355.0
                                                                                                                                                                                   575.00
                                                                                                                                                              375.00
                                                                                                                     975.4
                                                                                                                                            4.00
    DZG W1
                                  ٥
                                                                                                                                                                                                         -10.00
                                                                                                                                                                                                                                  0.00
                                                                                                                                                                                                                                                       SEASON
                                                                                                                                                                                   825.00
                                          0.15377E-06 390364.0 3870483.0
                                                                                                                   1066.8
                                                                                                                                            4.00
                                                                                                                                                              525.00
    DZG W2
                                  0
                                                                                                                                                                                                                                                       SEASON
                                                                                                                                                                                                             0.00
                                                                                                                                                                                                                                  0.00
                                                                                                                                                                                   457.00
                                                                                                                                                              300.00
                                          0.15376E-06 390885.0 3870573.0
                                                                                                                    1127.8
                                                                                                                                            4.00
    DZG W3
                                  0
                                                                                                                                                                                                             0.00
                                                                                                                                                                                                                                  0.00
                                                                                                                                                                                                                                                       SEASON
                                          0.15379E-06 391190.0 3870573.0
                                                                                                                    1127.8
                                                                                                                                            4.00
                                                                                                                                                             550.00
                                                                                                                                                                                   467.00
    DZG W4
                                  0
                                                                                                                                                                                                                                                       SEASON
                                                                                                                                                                                                         -10.00
                                                                                                                                                                                                                                  0.00
                                  0 · 0.15377E-06 392143.0 3871161.0 1005.8
                                                                                                                                             4.00
                                                                                                                                                              545.00
                                                                                                                                                                                   925,00
    DZG WS
                                                                                                                                                                                                                                  0.00
                                          0.76568E-07 390273.0 3871355.0 975.4
0.76560E-07 390364.0 3870483.0 1066.8
                                                                                                                                                                                                          -5.00
                                                                                                                                            5.00
                                                                                                                                                              375.00
                                                                                                                                                                                   575.00
    ERSÑ WI
                                  O
                                                                                                                                                                                                         -10.00
                                                                                                                                                                                                                                  0.00
                                                                                                                                                              525.00
                                                                                                                                                                                   825.00
                                                                                                                                            5.00
    ERSN W2
                                  0
                                          0.76586E-07 390885.0 3870573.0 1127.8
0.76582E-07 391190.0 3870573.0 1127.8
                                                                                                                                                                                                         0.00
                                                                                                                                                                                                                                  0.00
                                                                                                                                            5.00
                                                                                                                                                              300.00
                                                                                                                                                                                   457.00
    ERSN W3
                                  ۵
                                                                                                                                                                                                             0.00
                                                                                                                                                                                                                                  0.00
                                                                                                                                                              550.00
                                                                                                                                                                                   467.00
                                                                                                                                            5.00
    ERSN W4
                                  G
                                                                                                                                                                                                                                  0.00
                                       0.76568E-07 392143.0 3871161.0 1005.8
                                                                                                                                                                                                        -10.00
                                                                                                                                            5.00
                                                                                                                                                              545.00
                                                                                                                                                                                   925.00
                                                                           *** GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN FROJECT
*** Class 1 Analysis - 1991 Met - 6 MMTPY Hourly Average
                                                                                                                                                                                                                                                                      11/12/96
  *** ISCST3 - VERSION 96113 ***
                                                                                                                                                                                                                                                                       11:06:29
                                                                                                                                                                                                                                                                       PAGE 5
                                                                                                                                                                                                                   MSGPRO
                                                                                         RURAL ELEV
**MODELOPTs: CONC
                                                                                           *** SOURCE ID'S DEFINING SOURCE GROUPS ***
                                                                                                                             SOURCE IDS
GROUP ID
                       DRLPITI . DRLPIT2 . DRLPIT3 . DRLPIT4 . DRLPIT5 . DRLPIT6 . BLSPIT1 . BLSPIT2 . BLSPIT3 . BLSPIT4 . BLSPIT5 . BLSPIT6 . TRLPIT1 . TRLPIT2 . TRLPIT3 . TRLPIT4 . TRLPIT5 . TRLPIT5 . TRLPIT6 . HAUL_1 . HAUL_2 . HAUL_3 . HAUL_4 . HAUL_5 . HAUL_6 . BGESE1 . TRU_WST1 . TRU_WST2 . TRU_WST3 . TRU_WST4 . TRU_WST5 . DZG_W1 . DZG_W3 . DZG_W4 . DZG_W5 . ERSN_W1 . ERSN_W2 . ERSN_W3 . ERSN_W4 . ERSN_W5 .
  ALL.
                       DRLPITI , DRLPIT2 , DRLPIT3 , DRLPIT4 , DRLPIT5 , BLSPIT1 , TRLPIT1 , TRLPIT2 , TRLPIT3 , TRLPIT4 , TRLPIT5 , HAUL_1 , HAUL_2 , HAUL_3 , HAUL_4 , HAUL_5 , BGRSE1 , TRU_WST1, TRU_WST2, TRU_WST3, TRU_WST4, TRU_WST5, DZG_W1 , DZG_W2 , DZG_W3 , DZG_W4 , DZG_W5 , ERSN_W1 , ERSN_W2 , ERSN_W3 , ERSN_W4 , ERSN_W5 .
  PIT_1
                        DRLPITI . DRLPITZ , DRLPITZ , DRLPITZ , DRLPITZ , BLSPITZ , TRLPITZ , TRLPIT
  PIT 2
                       DRLPITI , DRLPIT2 , DRLPIT3 , DRLPIT4 , DRLPIT5 , DRLPIT6 , BLSPIT3 , TRLPIT1 , TRLPIT2 , TRLPIT3 , TRLPIT4 , TRLPIT5 , TRLPIT6 , HAUL 1 , HAUL 2 , HAUL 3 , HAUL 4 , HAUL 5 , HAUL 6 , BGHSE1 , TRU_WST1, TRU_WST2, TRU_WST3, TRU_WST4, TRU_WST5, DZG_W1 , DZG_W2 , DZG_W3 , DZG_W3 , DZG_W3 , DZG_W3 , ERSN_W1 , ERSN_W2 , ERSN_W3 , ERSN_W4 , ERSN_W5 ,
  PIT 3
                       DRLPITI . DRLPIT2 . DRLPIT3 . DRLPIT4 . DRLPIT5 . DRLPIT6 . BLSPIT4 . TRLPIT1 . TRLPIT2 . TRLPIT3 . TRLPIT4 . TRLPIT5 . TRLPIT6 . BAUL 1 . HAUL 2 . HAUL 3 . HAUL 4 . HAUL 5 . HAUL 6 . BGESE1 . IRU_WST1, TRU_WST2, TRU_WST3, TRU_WST4. TRU_WST5, DZG_W1 . DZG_W3 . DZG_W4 . DZG_W5 . ERSN_W1 . ERSN_W2 . ERSN_W3 . ERSN_W4 . ERSN_W5 .
  PIT 4
                        DRLPITI , DRLPIT2 , DRLPIT3 , DRLPIT4 , DRLPIT5 , DRLPIT6 , BLSPIT5 , TRLPIT1 , TRLPIT2 , TRLPIT3 , TRLPIT4 , TRLPIT5 , TRLPIT6 , HAUL 1 , HAUL 2 , HAUL 3 , HAUL 4 , HAUL 5 , HAUL 6 , HESSE1 , TRU_WST1, TRU_WST2, TRU_WST3, TRU_WST4, TRU_WST5, DZG_W1 , DZG_W2 , DZG_W3 , DZG_W4 , DZG_W5 , ERSN_W1 , ERSN_W2 , ERSN_W3 , ERSN_W4 , ERSN_W5 ,
  PIT 5
                        DRLPIT3 . DRLPIT4 . DRLPIT5 . DRLPIT6 . BLSPIT6 . TRLPIT3 . TRLPIT4 . TRLPIT5 . TRLPIT6 . HAUL 1 . HAUL 2 . HAUL 3 . HAUL 4 . HAUL 5 . HAUL 6 . BGHSE1 . TRU WST1 . TRU WST2 . TRU WST3 . TRU WST4 . TRU WST5 . DZG_W1 . DZG_W2 . DZG_W3 . DZG_W4 . DZG_W5 . ERSN_W1 . ERSN_W2 . ERSN_W4 . ERSN_W5 .
  PIT 6
                                                                            *** GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT
*** Class 1 Analysis - 1991 Met - 6 MMTFY Edury Average
                                                                                                                                                                                                                                                                       11/12/96
  *** ISCST3 - VERSION 96113 ***
                                                                                                                                                                                                                                               ***
                                                                                                                                                                                                                                                                       11:06:29
                                                                                                                                                                                                                                                                       PAGE
                                                                                                                                                                                                                    MSGERO
                                                                                          RITRAL ELEV
**MODELOFIS: CONC
```

\* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY \*

FALL Spring Summer WINTER

SOURCE ID = DRLPIT1 ; SOURCE TYPE = AREA .83330E+00 .83330E+00 .83330E+00 .83330E+00

SOURCE ID - DRLFIT2 : SOURCE TYPE - AREA

			.83330E+00	.83330E+00	.83330E+00	.83330E+00	
	SOURCE ID = DRLPIT3	;	SOURCE TYPE - .83330E+00	AREA : .83330E+00	.83330E+00	.83330E+00	
	SOURCE ID = DRLPIT4	;	SOURCE TYPE = .83330E+00	AREA : .83330E+00	.83330E+00	.83330E+00	
	SOURCE ID = DRLPITS	;	SOURCE TYPE = .83330E+00	AREA : .83330E+00	.83330E+00	.83330E+00	
	SOURCE ID = DRLPIT6	;	SOURCE TYPE = .83330E+00	AREA : .83330E+00	.83330E+00	. 83330E+00	
	SOURCE ID = BLSPIT1	;	SOURCE TYPE = .41700E-01	VOLUME : .41700E-01	.41700E-01	.41700E-01	
	SOURCE ID = BLSPIT2	;	SOURCE TYPE = .41700E-01	VOLUME : .41700E-01	.41700E-01	.41700E-01	
	SOURCE ID = BLSPIT3	;	SOURCE TYPE = .41700E-01	VOLUME : .41700E-01	.41700E-01	.41700E-01	
	SOURCE ID = BLSPIT4	;	SOURCE TYPE = .41700E-01	VOLUME : .41700E-01	.41700E-01	.41700E-01	
	SOURCE ID = BLSPITS	;	SOURCE TYPE = .41700E-01	VOLUME : .41700E-01	.41700E-01	.41700E-01	
	SOURCE ID = BLSPIT6	;			.41700E-01	.41700E-01	
• •	SOURCE ID = TRLPIT1	;			.83330E+00	.83330E+00	
	SOURCE ID = TRLPIT2	;			.83330E+00	.83330E+00	
	SOURCE ID = TRLPIT3	;			.83330E+00	.83330E+00	
	SOURCE ID = TRLPIT4	;	SOURCE TYPE = .83330E+00	AREA : .83330E+00	.83330E+00	.83330E+00	
	SOURCE ID = TRLPITS	;			.83330E+00	.83330E+00	
	SOURCE ID = TRLPIT6	;			.83330E+00	.83330E+00	
	SOURCE ID = HAUL_1	;	SOURCE TYPE = .83330E+00	AREA : .83330E+00	.83330E+00	.83330E+00	
	SOURCE ID = HAUL_2	;	SOURCE TYPE = .83330E+00	AREA : .83330E+00	.83330E+00	.83330E+00	
	SOURCE ID = HAUL_3	;	SOURCE TYPE = .83330E+00	AREA : .83330E+00	.83330E+00		
	SOURCE ID = HAUL_4	;	SOURCE TYPE = .83330E+00	AREA : .83330E+00	. 83330E+00	.83330E+00	
	SOURCE ID = HAUL_5	;	SOURCE TYPE = .83330E+00	AREA : .83330E+00	.83330E+00	.83330E+00	
	SOURCE ID = HAUL_6	;	SOURCE TYPE =	AREA :	. 83330E+00		
	SOURCE ID = TRU_WST1	;	SUIDCE TABE =	ADVA .	.66670E+00		
	SOURCE ID = TRU_WST2	;	SOURCE TYPE =	ARFA -	.66670E+00		
	SOURCE ID = TRU_WST3	:	SOURCE TYPE =	ARFA -	.66670E+00		
	SOURCE ID = TRU_WST4	;	SOURCE TYPE =	AREA :			
			.000/06+00	.566/UETUU	.66670E+00	.66670E+00	

SOURCE ID - TRU\_WST5 ; SOURCE TYPE - AREA .66670E+00 .66670E+00 .66670E+00 .66670E+00 ; SOURCE TYPE - AREA SOURCE ID - DZG W1 .11650E+00 .11650E+00 .11650E+00 .11650E+00 : SOURCE TYPE - AREA SOURCZ ID - DZG\_WZ .11650E+00 .11650E+00 .11650E+00 .11650E+00 SOURCE ID - DZG\_W3 ; SOURCE TYPE - AREA .11650E+00 .11650E+00 .11650E+00 .11650E+00 : SOURCE TYPE - AREA SOURCE ID - DZG\_W4 .11650E+00 .11650E+00 .11650E+00 .11650E+00 ; SOURCE TYPE - AREA SOURCE ID - DZG W5 .11650E+00 .11650E+00 .11650E+00 .11650E+00 GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT \*\*\* ISCST3 - VERSION 96113 \*\*\* 11/12/96 11:06:29 PAGE 13 RURAL ELEV MSGZRO \*\*MODELOPTS: CONC DISCRETE CARTESIAN RECEPTORS (X-COORD, Y-COORD, ZELEY, ZELAG) (METERS) 0.0): ( 420000.0. 3802000.0. 853.4, ( 394000.0. 3953000.0. 853.4. 0.0): GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT 11/12/96 \*\*\* ISCST3 - VERSION 96113 \*\*\* 11:06:29 PAGE 14 MSGZRO RURAL ELEV \*\*\*\*CDELOPTS: CONC \*\*\* METEOROLOGICAL DAYS SELECTED FOR PROCESSING \*\*\* (1=YES: 0=NO) 1111111111 11111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 1111111111 111111111111 METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 91 1 1 0 AND END DATE: 91 12 31 24 NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEFEND ON WHAT IS INCLUDED IN THE DATA FILE. \*\*\* UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES \*\*\* (METERS/SEC) 1.54, 3.09, 5.14, 8.23, 10.80, \*\*\* WIND PROFILE EXPONENTS \*\*\* WIND SPEED CATEGORY STABILITY CATEGORY

.70000E-01 .70000E-01 .70000E-01 .70000E-01 .70000E-01 .70000E-01 .70000E-01 .70000E-01 .70000E-01 .70000E-01 .70000E-01 .70000E-01 3 .10000E+00 .10000E+00 .10000E+00 .10000E+00 .10000E+00 .10000E+00 C -15000E+00 .15000E+00 .15000E+00 .15000E+00 .15000E+00 .15000E+00 D .35000E+00 .35000E+00 .35000E+00 .35000E+00 .35000E+00 .35000E+00 .55000E+00 .55000E+00 \_55000E+00 .55000E+00 .55000E+00 55000E+00

VERTICAL POTENTIAL TEMPERATURE GRADIENTS \*\*\*
(DEGREES KELVIN FER MEIER)

STABILITY

WIND SPEED CATEGORY

```
CATEGORY
                                                               3
                                                                            .00000E+00
                                                             .00000E+00
                                                                                            .000002+00
                                             .00000E+00
                                                                                                           .00000E+00
                             .0000002+00
                 A
                                                                             .0000002+00
                                                                                                            .00000E+00
                                             .00000E+00
                                                             .00000E+00
                                                                                            .00000E+00
                 В
                             .00000E+00
                                                             .00000E+00
                                                                            .00000E+00
                                                                                            .0000000
                                                                                                           .00000E+00
                 C
                             .00000E+00
                                             .00000E+00
                                                             .00000E+00
                                                                             .000COE+GC
                                                                                            .00000E+00
                                                                                                           .00000E+00
                             .00000E+00
                                             .00000E+00
                                                                            .20000E-01
                                                                                            .20000E-01
                                                                                                           .20000E-01
                                                             .20000E-01
                 Ξ
                             .20000E-01
                                             .20000E-01
                                                                             .35000E-01
                                                                                                            .35000E-01
                                                                                            .35000E-01
                             .35000E-01
                                             .35000E-01
                                                             .35000E-01
                                   GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN FROJECT
Class 1 Analysis - 1991 Met - 6 MMTRY Bourly Average
*** ISCST3 - VERSION 96113 ***
                                                                                                                           11/12/96
                                                                                                                           11:06:29
                                                                                                                           PAGE 15
                                         RURAL ELEV
                                                                                                    MSGPRO
THE FIRST 24 BOURS OF METEOROLOGICAL DATA
```

FORMAT: (412,2F9.4,F6.1,12,2F7.1,£9.4,£10.1,£8.4,14,£7.2)
UPPER AIR STATION NO.: 24128
NAME: WINNEMUCCA,NV FILE: 5: CETDATA SOLOSOL91M. ASC

SURFACE STATION NO.: 98765 NAME: UNKNOWN

YEAR: 1991

YEAR: 1991

	VEAD	MONTE	DAY	acce	FLOW VECTOR	SPEED (M/S)	TEMP (X)	STAB CLASS	MIXING H	eigai (m) Urban	USTAR M	HTDRELL O-H	(M)	CODE	FRATE
			MAL.		APPTOK	(E) 2)									
	91	1	1	1	339.6	2.57	270.4	6	340.5	23.0	0.0000		0.0000	0	0.00
	91	1	1	2	341.2	2.57	271.5	6	337.1	23.0	0.0000		0.0000	g	0.00
	91 91	1	ı	3	346.3	2.57	273.1	6 7	333.8 330.4	23.0 23.0	0.0000		0.0000	0	, 0.00 0.00
	91 91	1	1	4	357.3	1.03	272.6 269.3	7	327.1	23.0	0.0000		0.0000	a	0.00
	91	1	1	5	11.4 300.7	1.03 1.00	267.6	7	327.1	23.0	0.0000		0.0000	a	0.00
	91	ī	i	6 . 7	12.5	1.54	268.7	7	320.4	23.0	0.0000		0.0000	ō	0.00
	91	ī	ī	8	343.7	2.06	273.7	6	73.6	49.6	0.0000		0.0000	ā	0.00
	91	ī	ī	9	7.9	3.09	277.0	5	73.6	90.9	0.0000		0.0000	ă	0.00
	91	ī	ī	10	17.0	2.57	278.2	4	118.3	132.1	0.0000		0.0000	ā	0.00
	91	ī	ī	ii	13.4	3.09	280.4	3	162.9	173.3	0.0000		0.0000	ā	0.00
	91	ī	ī	12	28.0	2.57	281.5	3	207.6	214.5	0.0000		0.0000	ā	0.00
	91	ī	ĩ	13	17.5	3.60	283 .Z	3	252.3	255.8	0.0000	0.0	0.0000	ā	0.00
	91	1	ī	14	34.3	3.09	283.2	3	297.0	297.0	0.0000	0.0	0.0000	ā	0.00
	91	1	1	15	40.1	2.06	283.2	4	297.0	. 297.0	0.0000	0.0	0.0000	ā	0.00
	91	1	1	16	41.5	1.54	282.0	3	297.0	297.0	0.0000	0.0	0.0000	0	0.00
	91	1	1	17	25.5	1.54	276.5	4	296.0	296.0	0.0000	0.0	0.0000	9	0.00
	91	1	1	18	347.2	1.03	272.6	5	294.2	243.7	0.0000	0.0	0.0000	a	0.00
	91	1	1	19	305.0	1.03	271.5	6	292.3	208.9	0.0000	0.0	0.0000	G	0.00
	91	1	,1	20	337.2	1.00	270.9	7	290.4	174.1	0.0000	0.0	0.0000	C	0.00
	91	1	1	21	25.4	1.03	269.8	7	288.5	139.3	0.0000	0.0	0.0000	Q	0.00
	91	1	1	22	319.1	1.03	269.3	7	286.7		0.0000		0.0000	0	0.00
	91	1	1	23	318.6	1.00	269.8		284.9		0.0000		0.0000	Q	0.00
	91	1	1	24	131.1	1.00	270.4	7	283.0	35.0	0.0000	a.a	0.0000	Q	0.00
	<b>.</b>	CW VECT	OR IS	DIRECT	2=B, 3=C, ION TOWARD	WHICH W	TND IS I	BLOWING.							1 /10 /04
TSC:	213 -	VERSION	9611	3 ***	GOLD.	EN QUEEN	MINING	COMPANY -	SULLDAU	COUNTAIN PR	LUEUT		***	-	.1/12/96 .1:06:29
					www Clas	2 1 VIIST	.ys13	1331 465 -	e canti	iourly Aver	480				1:00:29 PAGE 16
MODELO	PT C	ONC			זזכ	RAL ELE	7				м	SGZRO		•	
(2020)		<b></b>			200		••				••				
	HLSPI HAUL_	,	ML_3	BLSP	INCLUDING	SOURCE (S	SPIT6 .	DRLPITI .	DRLPITZ TELPITZ	N VALUES , DRLPITG , , TRLPITG , , TRU_WST2,	DRLPIT4 . IRLPIT4 .	DRLPITS .	DRLPIT	5 , E	AUL 1
						*** DIS	CRETE C	artesian b	ECEPTOR P	OINIS					
		•			** C	DNC OF 1	<del>M</del> -10	IN MICSOS	rays/y3			**			
x-	COORD	(M)	-ccor	(M) CE	CONC	:		X-	-COORD (M)	Y-COORD	(15)	CONC			
	394000	.00	39530	00.00	0.00	1814			420000.00	3802000	0.00	0.01232			
*** ISC	डाउ -	VERSICE	f 9612	.3 ***						SCUNTAIN PE Equally Aver			***	:	L1/12/96 L1:06:29 PAGE 17
**MODELO	PTs: 0	CHC			RI	iral Eli	EΛ				ž	\$G230			
										***	200 00177		T-10 4		

THE ANNUAL ( 8760 ERS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PIT\_1

```
INCLUDING SOURCE(S):
                                                              DRLPITI , ORLPITZ , DRLPITI , DRLPITA , DRLPITI , BLSPITI , TRLPITI .
           TRUPHTS , TRUPHTS , TRUPHTS , BAUL 1 , BAUL 2 , BAUL 3 , BAUL 3 , BAUL 5 , BGBSE1 , TRU WST1, TRU WST2, TRU WST3, TRU WST3, DZG W1 , DZG W2 , DZG W3 , DZG W4 , DZG W3 , ERSN W1 , ERSN W2 , ERSN W3 , . . ,
                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                           ** CONC OF FM-10 IN MICROGRAMS/M**3
        X-COORD (M) Y-COORD (M)
                                         CONC
                                                                      X-COORD (M) Y-COORD (M)
                                                                                                        CONC
          394000.00 3953000.00
                                                                         420000.00 3802000.00
                                                                                                       0.01031
                                        0.00533
   *** ISCST3 - VERSION 96113 *** GOLDEN OUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT
                                                                                                                               11/12/96
                                      Class 1 Analysis - 1991 Met - 6 MATTY Hourly Average
                                                                                                                               11:06:29
                                                                                                                               PAGZ 13
  RURAL ELEV
                                 THE ANNUAL ( 8760 ERS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PIT 2
           INCLUDING SOURCE(5): DRLFIT1 , DRLFIT2 , DRLFIT3 , DRLFIT5 , BLSFIT2 , TRLFIT1 , TRLFIT1 , TRLFIT3 , HAUL_1 , HAUL_2 , HAUL_3 , HAUL_4 , HAUL_5 , HEGHSE1 , TRU_WST1, TRU_WST2, TRU_WST3, TRU_WST4, TRU_WST5, DZG_W1 , DZG_W2 , DZG_W3 , DZG_W4 , DZG_W5 , HRSH_W1 , HRSH_W2 , HRSH_W3 , . . .
                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                           -- CORC OF PH-10 IN MICHOGRAMS/MP-3
        X-COORD (M) Y-COORD (M)
                                                                      X-COORD (M) Y-COORD (M)
                                                                                                         CONC
    Y-COORD (M) Y-COORD (M) CORC Y-COORD (M)
          394000.00 3953000.00
                                                                        420000.00 3802000.00
                                                                                                         8 6 6 7 6 7 8
                                         0.00528
                                     --- GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT
" *** ISCST3 - VERSION 96113 ***
                                                                                                                               11/12/96
                                       Class 1 Analysis - 1991 Met - 6 MMITY Bourly Average
                                                                                                                               11:06:29
                                                                                                                               PAGZ 19
  RURAL ELEV
                                                                                                       MSG220
                                 THE ANNUAL ( 8760 ERS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: FIT 3
            TRCLUDING SCURCE(S): DRLFIT1 , DRLFIT2 , DRLFIT3 , DRLFIT4 , DRLFIT5 , DRLFIT6 , BLSFIT3 , TRLFIT1 , TRLFIT3 , TRLFIT3 , TRLFIT4 , TRLFIT5 , TRLFIT6 , BAUL_1 , BAUL_2 , BAUL_3 , BAUL_4 , BAUL_5 , BAUL_6 , BGSSE1 , TRU_WST1, TRU_WST2, TRU_WST3, TRU_WST4, TRU_WST5, DZG_W1 , DZG_W2 , DZG_W3 , DZG_W4 , DZG_W5 , . . . ,
                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                            -- CONC OF PM-10 IN MICROGRAMS/M--3.
                        C-COORD (M) Y-COORD (M) Y-COORD (M) CONC
        X-COORD (M) Y-COORD (M)
           394000.00 3953000.00
                                                                        420000.00 3802000.00
                                                                                                        0.01052
                                         0.00541
    --- ISCST3 - VERSION 96113 --- GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN FROJECT
                                                                                                                                11/12/96
                                      Class 1 Analysis - 1991 Met - 6 MMTTY Hourly Average
                                                                                                                                11:06:29
                                                                                                                                PAGE 20
   RURAL ELEV
                                                                                                        MSGZRO
                                 THE ANNUAL ( 8760 ERS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PIT_4
            --- DISCRETE CARTESIAN RECEPTOR POINTS ---
                                            -- CONC OF PA-10 IN MICHOGRAPS/A-3
                                                                      X-COORD (M) Y-COORD (M) CONC
         X-COORD (M) Y-COORD (M)
                                          CONC
           394000.00 3953000.00
                                                                          420000.00 3802000.00
                                                                                                        0.01055
                                          0.00542
    11/12/96
                                       --- Class 1 Analysis - 1991 Met - 6 MATTY Hourly Average
                                                                                                                                11:06:29
                                                                                                                                24GE 21
   ****COELOFTs: CONC
                                              RURAL ELEV
                                  THE ANNUAL ( 8760 BRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PIT_5
            INCLUDING SCURCE(S): DRLFIII, DRLFIIZ, DRLFII3, DRLFII4, DRLFII5, DRLFII6, BLSZIIS.

TRLFII1, TRLFII2, TRLFII3, TRLFII4, TRLFII3, TRLFII5, HAUL 1, HAUL 2, HAUL 3, HAUL 4, HAUL 5, HAUL 6,

BGRSZI, TRU_WSTI, TRU_WSTZ, TRU_WSTI, TRU_WSTI4, TRU_WSTI5, DZG_WI , DZG_WZ , DZG_W3 , DZG_W4 , DZG_W5 , . . . .
```

\*\*\* DISCRETE CARTESTAN RECEPTOR POINTS \*\*\*

-- CONC OF EM-10 IN MICHOGRAMS/M-3

	T-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC	
394000.00	3953000.00	0.00543	420000.00	3802000.00	0.01055	• • • • • •
*** ISCSI3 - VERS	ION 96113 *** *	GOLDEN QUEEN MI Class 1 Analysi	INING COMPANY - SOLZDAD : Ls - 1991 Mec - 6 MMIPI :	MOUNTAIN PROJECT Hourly Average	***	11/12/96 11:06:29
*-HODELOFIs: CORC		RURAL ELEV			MSG790	PAGZ 22
TRLPITS . TRU_MST4,	INC TRLPITS HAUL 1	LUDING SOURCE(S):	ES) AVERAGE CONCENTRATION DRIPTIS , DRIPTIS 3 , BAUL 4 , HAUL 5 13 , DZG_W4 , DZG_W5	, DRLPITS , DRLPIT6 HAND 6 RGHSH1	, BLSPIT6 , TRLPITS	, TRLPITA ,
		*** DISCRI	THE CARTESTAN RECEPTOR R	OIRIZ ***		
			LO IN HICROGRAMS/M==3		**	•
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CORC	
	3953000.00		420000.00		0.00993	
IZCZII - VERS	ION 96113	GOLDEN QUEEN MI Class 1 Analysi	ning Company - Soledad : Ls - 1991 Mec - 6 MMITY	MOUNTAIN PROJECT Housely Average	***	11/12/96 11:06:29 PAGE 23
**MODELOFIS: COMC		RURAL FLEV			MSGZRO	1002 4
HLSPITZ ,	BLSPIE BLSPIE	LIDING SOURCE(S):	-BR AVERAGE CONCENTRATION DRLFIT1 , DRLFTT2 LT6 , TRLFTT1 , TRLFTT2 6 , BGGSSE1 , TRU_WST1	DRLPITI DRLPITA	, DRLPITS , DRLPITS	HAIII. 1
		*** DISCRI	ete Cartesian receptor 3	OIRTS ***		
		** CONC OF PM-	in Higherans/19-3		<del>an</del>	
X-COORD (M)	Y-COORD (M)	CONC (YMAND)	EE) X-COORD	(H) Y-COORD (H)	CCRC (YYM	DEE)
394000.00	3953000.00	0.22066 (910106	24) 42000	0.00 3802000.00	0.22910c (91120	
					4.223300 (31220	I3Z4 }
ISCSI3 - VERS	ION 96113 *** *	GOLDEN QUEEN H	INING COMPANY - SOLEDAD	MOUNTAIN PROJECT	***	11/12/96 11:06:29
ISCSI3 - VERS	ION 96113 *** *	GOLDEN QUEEN H	INTING COMPANY - SOLEDAD	MOUSTAIN PROJECT Hourly Average	***	11/12/96
FREFIZ .	THE INC	GOLDEN QUEEN M Class 1 Analys:  RURAL FLEV : 1ST HIGGEST 24- LUDING SOURCE(S): , TRLFITS , HAUL :5, DZG_W1 , DZG_U	INTING COMPANY - SOLEDAD	MOUNTAIN PROJECT HOURLY AVERAGE N VALUES FOR SOURCE DELPITS DELPITS HAUL 4 HAUL 5 DZG W5 PESN_W1	MSGRECO E GROUP: FIT 1 . DRLPHIS . BLSPHIL	11/12/96 11:06:29 PAGE 24
FREFIZ .	THE INC	GOLDEN QUEEN M Class 1 Analys:  RURAL FLEV  IST HIGHEST 24- LUDING SOURCE(S):  TRLFITS . HAUL  S, DZG W1 , DZG	INING COMPANY - SOLEDAD is - 1991 Met - 6 MMIFY  -ER AVERAGE CONCENTRATIO DELFIT1 , DELFIT2  1	MOUNTAIN PROJECT HOURLY AVERAGE N VALUES FOR SOURCE , DRIFTIN , DRIFTIN , HAML 4 , HAML 5 , DZG W5 , ERSH W1	MSGRECO E GROUP: FIT 1 . DRLPHIS . BLSPHIL	11/12/96 11:06:29 PAGE 24
TRU_WSTI,	THE INC	GOLDEN QUEEN M Class 1 Analys:  RURAL FLEV : 1ST HIGGEST 24- LUDDING SOURCE(S):  , TRLPITS , HAUL :5, DZG W1 , DZG	THING COMPANY - SOLEDAD  13 - 1991 Met - 6 MMTFY  -ER AVERAGE CONCENTRATIO  DRIPTTI , DRIPTE  1	MOUSTAIN PROJECT HOURLY AVERAGE  WALUES FOR SOURCE DELPITO DELPITA HAML 4 HAML 5 DZG W5 PESH W1	MEGRECO  E GROUP: FIT_1  . DRLPITS . BLSPITI  . BESSE TRU WSTI  . ERSN W2 . ERSN W3	11/12/96 11:06:29 PAGE 24 , TRLPITI .
TRUPITZ, TRU_WST3,	THE INC. THE	GOLDEN QUEEN M Class 1 Analys:  RURAL FLEV : 1ST HIGGEST 24- LUDDING SOURCE(S):  , TRLPITS , HAUL :5, DZG W1 , DZG	INING COMPANY - SOLEDAD is - 1991 Met - 6 MMIPY  -ER AVERAGE CONCENTRATIO DRIFTI1 , DRIFTIZ  1	MOUNTAIN PROJECT HOURLY AVERAGE  N VALUES FOR SOURCE DELPITS DELPITS HAMIL A HAMIL S DZG WS PESN W1  OIRIS ***  (M) Y-COORD (M)	MEGRECO  E GROUP: PIT_1  . DRLYIIS . BLSZITI  . BGESZI . TRU WSTI  . ERSM_WZ . ERSM_WS  CORC (YYMAL	11/12/96 11:06:29 PAGZ 24 , TRLPITI , TRU_WSIZ,
TRU_WST3,  X-COORD (M)  394000.00	Y-COORD (M)  3953000.00  ION 96113	GOLDEN QUEEN M Class 1 Analys:  RURAL FLEV  IST HIGGEST 24- LUDING SOURCE(S):  TRIPITS , HAUL S, DZG WI , DZG C  CONC OF PM- CONC (YMMADD)  0.11441 (910106)	THING COMPANY - SOLEDAD  13 - 1991 Met - 6 MMITY  -ER AVERAGE CONCENTRATIO DRIPTI1 , DRIPTI2  1	MOUSTAIN PROJECT HOURLY AVERAGE  WALUES FOR SOURCE DELPITO DELPITA HAML 4 HAML 5 DZG W5 PRISH W1  CINIS ***  (M) Y-COCED (M)  G.00 3802000.00  MCUSTAIN PROJECT	MSGFSC)  E GROUP: FIT 1 . DRLPITS . BLSFITI . BGSSE1 . TRU WSTI . FRSN WZ . FRSN W3  CCRC (YTMAN	11/12/96 11:06:29 PAGE 24 , TRLPITI . , TRLPITI .
TRU_WST3,  X-COORD (M)  394000.00	Y-COORD (M)  3953000.00  ION 96113	GOLDEN QUEEN M Class 1 Analys:  RURAL FLEV  IST HIGGEST 24- LUDING SOURCE(S):  TRIPITS , HAUL S, DZG WI , DZG C  CONC OF PM- CONC (YMMADD)  0.11441 (910106)	THING COMPANY - SOLEDAD  13 - 1991 Met - 6 MMTFY  -ER AVERAGE CONCENTRATIO DRIFTI , DRIFTZ  1 , HAUL 2 , HAUL 3  W2 , DZG W3 , DZG W4  ETE CARTESTAN RECEPTOR P  10 IN MICROGRAMS/M**3  EH) Y-COCRD	MOUNTAIN PROJECT HOURLY AVERAGE  N VALUES FOR SOURCE DELPTIT D	MSGFSC)  E GROUP: FIT 1 . DRLPITS . BLSFITI . BGSSE1 . TRU WSTI . FRSN WZ . FRSN W3  CCRC (YTMAN	11/12/96 11:06:29 PAGE 24 , TRLPITI . , TRLPITI .
TREPITZ , TRU_WST3 ,  Y-COORD (M)  394000.00  ISCST3 - VERS	Y-COORD (M)  3953000.00  ION 96113 THE	GOLDEN QUEEN M Class 1 Analys:  RURAL FLEV  IST HIGGEST 24- LUDING SOURCE(S):  TRLFITS , HAUL CONC OF PM- CONC (YMADD)  0.11441 (910106:  GOLDEN QUEEN M CLASS 1 Analys:  RURAL FLEV  IST HIGGEST 24- LUDING SOURCE(S):  J. TRLFITS , HAUL CLASS 1, DZG W1 , DZG M1	THING COMPANY - SOLEDAD  13 - 1991 Met - 6 MMTFY  -ER AVERAGE CONCENTRATIO DRIFTII , DRIFTEZ  1	MOUNTAIN PROJECT HOURLY AVERISE  N VALUES FOR SOURCE DELPITS DELPIT4 HAML 4 HAML 5 DZG W5 PESH W1  OINTS ***  (M) Y-COCRD (M)  G.00 3802000.00  MOUNTAIN PROJECT HOURLY AVERISE  N VALUES FOR SOURCE DELPITS DELPITS HAML 4 HAML 5 DZG W5 PESH W1	MSGRECO  E GROUP: FIT 1  DRIFTIS , BISPITI  BGRSE1 , TRU WSTI  FRSN WZ , FRSN W3  CORC (YYMME  0.20528c (91120  MSGRECO  E GROUP: PIT 2  DRIFTIS , BISPITI  BGRSE1 TRU WSTI	11/12/96 11:06:29 PAGE 24  . TRU_WSIZ, . TRU_WSIZ, . 11/12/96 11:06:29 PAGE 25
TREPITZ , TRU_WST3 ,  Y-COORD (M)  394000.00  ISCST3 - VERS	Y-COORD (M)  3953000.00  ION 96113 THE	CONC OF PA- CLASS 1 ANALYS: RURAL FIEV  IST HIGGEST 24- LUDING SOURCE(S): TRIPITS, HAUL IS, DZG W1 , DZG  CONC OF PA- CONC OF PA- CONC (YMA-DO)  O.11441 (910106)  GOLDEN QUEEN M CLASS 1 ANALYS: RURAL FIEV  IST HIGGEST 24- LUDING SCURCE(S): TRIPITS , HAUL IST, DZG W1 , DZG	THING COMPANY - SOLEDAD  13 - 1991 Met - 6 MMITTY  -ER AVERAGE CONCENTRATIO DRIFTI	MOUNTAIN PROJECT HOURLY AVERISE  N VALUES FOR SOURCE DELPITS DELPITA HAML A HAML S DZG WS JESN W1  OLHIS ***  (M) Y-COCED (M)  G.00 3802000.00  MCUNTAIN PROJECT HOURLY AVERISE  N VALUES FOR SOURCE DELPITS DELPITA HAML A HAML S DZG WS JESN W1  OLHIS ***	MSGFRO  E GROUP: FIT 1  DRLPITS , BLSFITI , BGRSE1 , TRU WSTI , ERSN WZ , FRSN W3  CCRC (YTMAN  0.20528c (91120  2.50528c (91	11/12/96 11:06:29 PAGE 24  . TRU_WSIZ, . TRU_WSIZ, . 11/12/96 11:06:29 PAGE 25
X-COORD (M)  394000.00  ISCST3 - VERS	Y-COORD (M)  3953000.00  ION 96113	CONC OF PA- CONC O	THING COMPANY - SOLEDAD  13 - 1991 Met - 6 MMTFY  -ER AVERAGE CONCENTRATIO DRIFTII , DRIFTZ  1	MOUNTAIN PROJECT HOURLY AVERAGE  N VALUES FOR SOURCE DELPITS DELPITA HAML 4 HAML 5 DZG W5 PESH W1  OINTS ***  (M) Y-COCRD (M)  G.00 3802000.00  MCUNTAIN PROJECT HOURLY AVERAGE N VALUES FOR SOURCE DELPITS DELPITA HAML 4 HAML 5 DZG W5 PESH W1  OINTS ***	MSGRECO  E GROUP: FIT 1  DRLPITS , BLSPITI  BGRSE1 , TRU WSTI  FRSN WZ , FRSN W3  CCRC (YMME  0.20528c (91120  MSGRECO  E GROUP: PIT 2  DRLPITS , BLSPIT2  BGRSE1 , TRU WSTI  FRSN WZ , FRSN W3	11/12/96 11:06:29 PAGE 24  . TRLPITI TRU_WSTZ
X-COCRD (M)  394000.00  ISCSI3 - VERS	Y-COORD (M)  THE PITA TRUETTA	CONC OF PA- CONC O	THING COMPANY - SOLEDAD  13 - 1991 Met - 6 MMITTY  -ER AVERAGE CONCENTRATIO DRIFTI	MOUNTAIN PROJECT HOURLY AVERES  N VALUES FOR SOURCE DELPITS , DELPIT4 HAML 4 HAML 5 DEG W5 , PESN W1  OLHIS ***  (M) Y-COCED (M)  G.00 3802000.00  MCUNTAIN PROJECT HOURLY AVERES N VALUES FOR SOURCE DELPITS , DELPIT4 HAML 4 HAML 5 DEG W5 PESN W1  OLHIS ***  (M) Y-COCED (M)	ESGRECO  E GROUP: PIT 1  DRLPITS BLSPITI BGESZ1 TRU WSTI ERSN WZ FRSN W3  CORC (YMME  0.20528c (91120  ESGRECO  E GROUP: PIT 2  DRLPITS BLSPIT2 BGESZ1 TRU WSTI FISN WZ FRSN W3  CONC (YMME	11/12/96 11:06:29 PAGE 24  . IRL2III , IRU_WSIZ , . IRU_WSIZ ,

```
STEELS - VERSION 96113 *** GOLDEN QUEEN MINING COMPANY - SOLIDAD MOUNTAIN PROJECT *** Class 1 Analysis - 1991 Met - 6 MMIFY Hourly Average
                                                                                                                                                                                                                                                                                                                                                                                                                   11/12/96
                                                                                                                                                                                                                                                                                                                                                                                                                   11:06:29
                                                                                                                                                                                                                                                                                                                                                                                                                    PAGE 25
*****CDELOPIS: CONC
                                                                                                                                                                                                                                                                                                                                     MSGPRO
                                                                                                                                        RURAL ELEV
                            THE 1ST HIGGEST 24-BR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PIT 3

INCLUDING SOURCE(S): DRLPIT1 , DRLPIT2 , DRLPIT1 , DRLPIT4 , DRLPIT5 ,
                                                                                                                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                                   ** CONC OF PH-10 IN MICROGRAMS/M**3
                                                                                          M) CONC (YMAODEE) X-COORD (M) Y-COORD (M) CONC (YMAODEE)
              X-COORD (M) Y-COORD (M)
                                                                                                                                                                                                                                                420000.00 3802000.00
                                                                                                                      0.11835 (91010624)
                                                                                                                                                                                                                                                                                                                                                   0.21109c (91120524)
                   394000.00 3953000.00
                                                                                                                     --- GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT
    --- ISCST3 - VERSION 96113 ---
                                                                                                                                                                                                                                                                                                                                                                                                                   11/12/96
                                                                                                                                                                                                                                                                                                                                                                                                                   11:06:29
                                                                                                                     Class 1 Analysis - 1991 Met - 6 MATRY Hourly Average
                                                                                                                                                                                                                                                                                                                                                                                                                   PAGE 27
                                                                                                                                                                                                                                                                                                                                     MSGZRO
 ***MODELOPIS: CONC
                                                                                                  THE 1ST HIGHEST 24-SR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PII_4
                            INCLUDING SOURCE(S): DELPIII , DELPIIZ , DRLPIII , DELPIIA , DELPI
                                                                                                                                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                                   ** CONC OF PH-10 IN MICROGRAMS/M**3
                                                                                                                                                                                                                                            Y-COORD (M) Y-COORD (M) CONC (YYM-DDEE)
               X-COORD (M) Y-COORD (M) CONC (YMMODEE)
                    394000.00 3953000.00 0.11885 (91010624)
                                                                                                                                                                                                                                              420000.00 3802000.00 0.21122c (91120524)
     *** ISCST3 - VERSION 96113 *** GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT
                                                                                                                                                                                                                                                                                                                                                                                                                    11/12/96
                                                                                                                    *** Class 1 Analysis - 1991 Met - 6 MMIFY Hourly Average
                                                                                                                                                                                                                                                                                                                                                                                                               11:00.
PAGE 28
                                                                                                                                                                                                                                                                                                                                                                                                                     11:06:29
                                                                                                                                                                                                                                                                                                                                    MSGERO
  ***MODELOPIs: CONC
                                                                                                   THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PIT_5
                                INCLUDING SQURCE(S): DRLPITI , DRLPITZ , DRLPI
                                                                                                                                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                                      -- CONC OF PH-10 IN MICROGRAMS/M--3
                X-COCRD (M) Y-COCRD (M) CONC (YYM-DDEE) X-COCRD (M) Y-COCRD (M)
                                                                                                                                                                                                                                                                                                                               ) CONC (YYMADDEE)
                                                                                                                                                                                                                                                    420000.00 3802000.00
                                                                                                                         0.11850 (91010624)
                                                                                                                                                                                                                                                                                                                                                        0.21122c (91120524)
                       394000.00 3953000.00
                                                                                                                                                                                                                                                                                                                                                                                                                       11/12/96
                                                                                                                        GOLDEN CUEEN MINING COMPANY - SCLEDAD MOUNTAIN PROJECT
       *** ISCST3 - VERSION 96113 ***
                                                                                                                                                                                                                                                                                                                                                                                                                11:06:29
PAGE 29
                                                                                                                      *** Class 1 Analysis - 1991 Mec - 6 MATTY Hourly Average
                                                                                                                                                                                                                                                                                                                                        MSGZSO
    - HODELOPIs: CONC
                                                                                                                                            RURAL ELEV
                                                                                                                                   1ST HIGHEST 24-ER AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PIT_6
                                 INCLUDING SOURCE(S): DRLVIT3 , DRLVIT4 , DRLVIT5 , DRLVIT6 , BLSVIT6 , BLSVIT6 , BLSVIT6 , BLSVIT6 , BLSVIT7 , BLSVI
                                                                                                                                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***
                                                                                                                                      ** CONC OF PM-10 IN MICHOGRAMS/M**3
                                                                                                   ) CURC (YMADDER) X-COORD (M) Y-COORD
                                                                                                                                                                                                                                                                                                                                                          COMC (YYMODEE)
                                                                                                                                                                                                                                        X-COORD (M) Y-COORD (M)
                   X-COORD (M) Y-COORD (M)
                                                                                                                                                                                                                                                                                                                                ______
                                                                                                                           0.11307 (91010624)
                                                                                                                                                                                                                                                  420000.00 3802000.00
                                                                                                                                                                                                                                                                                                                                                     0.19815c (91129524)
                           394000.00 3953000.00
         --- ISCST3 - VERSION 96113 --- --- GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN FROJECT
                                                                                                                                                                                                                                                                                                                                                                                                                      11/12/96
                                                                                                                                                                                                                                                                                                                                                                                                                        11:06:29
                                                                                                                          --- Class 1 Analysis - 1991 Met - 6 MMIFY Hourly Average
                                                                                                                                                                                                                                                                                                                                                                                                                  PAGE 30
                                                                                                                                                                                                                                                                                                                                       MSG230
                                                                                                                                              RURAL ELEV
     ***ODELOPIS: CONC
                                                                                                             THE MAXIMUM 50 24-ER AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
```

INCLUDING SCURCE(S): DRIFTI , 
```
BLSPITZ , BLSPITJ , BLSPITA , BLSPITJ , BLSPITG , TRLPITI , TRLPITZ , TRLPITJ , TRLPITJ , TRLPITJ , TRLPITJ , TRLPITG , HAUL_1 , HAUL_2 , HAUL_3 , HAUL_5 , HAUL_6 , BGBSE1 , TRU_WST1, TRU_WST2, TRU_WST3, TRU_WST4, TRU_WST5. . . .
                                                                                                         -- CONC OF PM-10 IN MICROGRAMS/M--3
                                                                                                                                   (XR,YR) OF TYPE RANK COSC (YNN-DOSES) AT RECEPTOR (XR,YR) OF TYPE
RANK
                            CONC (YMMODER) AT
                                                                                                    RECEPTOR (XR, YR) OF TYPE
                            0.22910c(91120524) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                      26.
                                                                                                                                                                                                           0.08635e(91010924) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                                               0.08635c(91010924) AT ( 420000.00, 3802000.00) DC 0.08567c(91122724) AT ( 420000.00, 3802000.00) DC 0.08377 (91020124) AT ( 420000.00, 3802000.00) DC 0.07718 (91113024) AT ( 420000.00, 3802000.00) DC 0.07725 (91112324) AT ( 420000.00, 3802000.00) DC 0.07259 (91011824) AT ( 394000.00, 3953000.00) DC 0.07171 (91032624) AT ( 394000.00, 3953000.00) DC 0.06714 (91113024) AT ( 394000.00, 3953000.00) DC 0.06631 (91030424) AT ( 394000.00, 3953000.00) DC 0.06621 (91040524) AT ( 420000.00, 3802000.00) DC 0.06625 (91071424) AT ( 420000.00, 3802000.00) DC 0.066286 (91071424) AT ( 394000.00, 3953000.00) DC 0.066286 (91071424) AT ( 420000.00, 3802000.00) DC
                            0.22066 (91010624) AT ( 394000.00, 3953000.00) DC 0.18955e(91120924) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                       27.
                                                                                                                                                                                       28.
                            G.18858 (91121024) AT ( 420000.00, 3802000.00) DC 0.17487 (91011824) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                       29.
                                                                                                                                                                                       30.
                             0.14846 (91010124) AT ( 420000.00, 3802000.00)
                                                                                                                                                                DC
                                                                                                                                                                                        31.
                            0.14399 (91123024) AT ( 420000.00, 3802000.00)
                                                                                                                                                                DC
                                                                                                                                                                                        32.
                            0.14046 (91022324) AT ( 420000.00, 3802000.00)
0.13895 (91122424) AT ( 420000.00, 3802000.00)
                                                                                                                                                                DC
                                                                                                                                                                                       33.
                                                                                                                                                                DC
                                                                                                                                                                                        34.
                             0.13656 (91022024) AT ( 420000.00, 3802000.00)
                                                                                                                                                                DC
                                                                                                                                                                                        35.
                            0.13528 (91110724) AT ( 420000.00, 3802000.00)
                                                                                                                                                                DC
                                                                                                                                                                                        36.
                            0.13257 (91121024) AT ( 394000.00, 3953000.00) DC 0.12228 (91112324) AT ( 394000.00, 3953000.00) DC 0.12163 (91030224) AT ( 394000.00, 3953000.00) DC 0.12165 (91121424) AT ( 420000.00, 3953000.00) DC 0.12105 (91121424) AT ( 420000.00, 3802000.00) DC
   12.
                                                                                                                                                                                        37.
                                                                                                                                                                                                                0.06286 (91071424) AT ( 394000.00, 3953000.00) DC 0.06208 (91042824) AT ( 420000.00, 3802000.00) DC 0.05734 (91102324) AT ( 420000.00, 3802000.00) DC 0.05687 (91111924) AT ( 394000.00, 3953000.00) DC 0.05687 (91111924) AT ( 394000.00, 3953000.00) DC 0.05593 (91111624) AT ( 394000.00, 3802000.00) DC 0.05593 (91110424) AT ( 394000.00, 3953000.00) DC 0.05593 (9110424) AT ( 394000.00, 3953000.00) DC 0.05432 (9110424) AT ( 394000.00, 3953000.00) DC 0.05266 (91082424) AT ( 394000.00, 3953000.00) DC 0.05246 (91082424) AT ( 394000.00, 3953000.00) DC
   13.
                                                                                                                                                                                        38.
   14.
                                                                                                                                                                                        39.
   ١٥.
                                                                                                                                                                                        40.
                            0.11996 (91012524) AT ( 420000.00, 3802000.00) DC 0.11907 (91010824) AT ( 420000.00, 3802000.00) DC 0.11716 (91100924) AT ( 420000.00, 3802000.00) DC 0.10692 (91110824) AT ( 394000.00, 3953000.00) DC 0.10692 (91110824) AT ( 394000.00, 3953000.00) DC
   16.
                                                                                                                                                                                        AL.
                                                                                                                                                                                        42.
   18.
                                                                                                                                                                                        43.
   19.
                                                                                                                                                                                        44.
                           0.10492 (9110824) AT ( 39400.00, 3933000.00) DC (0.10496 (91102424) AT ( 420000.00, 3802000.00) DC (0.09509 (91090324) AT ( 394000.00, 3933000.00) DC (0.09053 (91091924) AT ( 420000.00, 3802000.00) DC (0.08896 (91012624) AT ( 420000.00, 3802000.00) DC (0.08731 (91111824) AT ( 420000.00, 3802000.00) DC
   20.
                                                                                                                                                                                        45.
                                                                                                                                                                                        46.
                                                                                                                                                                                        47.
                                                                                                                                                                                                              0.05002 (91011224) AT ( 394000.00, 3953000.00) DC 0.04986 (91030324) AT ( 394000.00, 3953000.00) DC 0.04962 (91060524) AT ( 394000.00, 3953000.00) DC
                                                                                                                                                                                        48.
                                                                                                                                                                                        49.
                                                                                                                                                                                      50.
   --- RECEPTOR TYPES: GC - GRIDCART
                                                           GZ = GZTDPOT 2
                                                           DC - DISCOART
                                                           DP = DISCROLR
                                                           BD - BOUNDARY
   *** ISCST3 - VERSION 96113 ***
                                                                                              --- GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT
                                                                                                                                                                                                                                                                                                                                   11/12/96
                                                                                              *** Class 1 Analysis - 1991 Met - 6 MMTRY Hourly Average
                                                                                                                                                                                                                                                                                                                                    11:06:29
**MCDELOPTs: CONC
                                                                                                               RURAL ELEV
                                                                                                                                                                                                                                                                      25G290
                                                                                    THE MAXIMUM SO 24-ER AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: FIT 1
                        INCLUDING SOURCE(S): DRLFITI, DRLFITZ, 
                                                                                                         PE CONC OF PM-10
                                                                                                                                                                TH MICROSPANS/MENS
                           CONC (YMAGDHE) AT RECEPTOR (XR.YR.) OF TYPE RANK CONC (YMAGDHE) AT RECEPTOR
RANK
                                                                                                                                                                                                                                                                                          RECEPTOR (XR, YR) OF THE
                           0.20525e(91120524) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                                            0.07058 (91113024) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                        25.
                                                                                                                                                                                                                  0.06900 (91112324) AT ( 420000.00, 3802000.00) DC 0.06396 (91032624) AT ( 42000.00, 3802000.00) DC 0.06289 (91032624) AT ( 394000.00, 3953000.00) DC 0.06289 (91121024) AT ( 394000.00, 3953000.00) DC 0.06289 (91121024) AT ( 394000.00, 3953000.00) DC
                             0.17122c(91120924) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                         27.
                             0.16595 (91121024) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                        28.
      4.
                             0.15763 (91011824) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                        29.
      5.
                             0.13283 (91010124) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                        30.
                             0.12821 (91022124) AT ( 420000.00, 3802000.00) DC 0.12711 (91123024) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                                                0.06065 (91040524) AT ( 420000.00, 3802000.00) DC 0.05888 (91011824) AT ( 420000.00, 3933000.00) DC 0.05888 (91123124) AT ( 420000.00, 3802000.00) DC 0.05623 (91071424) AT ( 394000.00, 3802000.00) DC 0.05613 (91042824) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                        31.
                                                                                                                                                                                        32.
                            0.12527 (91022024) AT ( 420000.00, 3802000.00) DC 0.12420 (91122424) AT ( 420000.00, 3802000.00) DC 0.12151 (91110724) AT ( 420000.00, 3802000.00) DC 0.11441 (91010624) AT ( 394000.00, 3953000.00) DC 0.11441 (91010624) AT ( 394000.00, 3953000.00) DC 0.1046 (91112724) AT ( 394000.00, 3953000.00) DC
                                                                                                                                                                                        33.
      9.
                                                                                                                                                                                        34.
   IO.
                                                                                                                                                                                        35.
    11.
                                                                                                                                                                                         36.
                                                                                                                                                                                                                   0.05390 (91012224) AT ( 420000.00, 3802000.00)
                                                                                                                                                                                                                                                                                                                                                        DC
    12.
                             0.10896 (91112324) AT ( 394000.00, 3953000.00) DC 0.10778 (91010824) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                                                   0.05387 (91030424) AT ( 394000.00, 3953000.00)
                                                                                                                                                                                         37.
                                                                                                                                                                                                                                                                                                                                                        DC
                                                                                                                                                                                                                  0.05255 (91102324) AT ( 420000.00, 3802000.00) 0.05059 (91022824) AT ( 394000.00, 3953000.00) 0.04947 (91111624) AT ( 420000.00, 3802000.00) 0.04880 (91111924) AT ( 394000.00, 3953000.00)
    13.
                                                                                                                                                                                         38.
                                                                                                                                                                                                                                                                                                                                                       DC
                             0.10774 (91030224) AT ( 394000.00, 3953000.00) DC
    14.
                                                                                                                                                                                         39.
                                                                                                                                                                                                                                                                                                                                                        DC:
                             0.10629 (91012524) AT ( 420000.00, 3802000.00) DC
   15
                                                                                                                                                                                         40.
                                                                                                                                                                                                                                                                                                                                                       DC
    16.
                             0.10418 (91100924) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                        41.
                                                                                                                                                                                                                                                                                                                                                      DC
                                                                                                                                                                                                                   0.04831 (91011424) AT ( 394000.00, 3953000.00)
0.04796 (91102424) AT ( 394000.00, 3953000.00)
   17.
                             0.09970 (91121424) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                         42.
                                                                                                                                                                                                                                                                                                                                                        DC
    18.
                             0.09414 (91102424) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                        43.
                                                                                                                                                                                                                                                                                                                                                        DC
                          0.08623 (91090324) AI ( 394000.00, 3953000.00) DC 0.08548 (91110824) AI ( 394000.00, 3953000.00) DC 0.07988 (91012524) AI ( 420000.00, 3802000.00) DC 0.07974 (91091924) AI ( 420000.00, 3802000.00) DC 0.07576 (91111824) AI ( 420000.00, 3802000.00) DC 0.075776 (91210924) AI ( 420000.00, 3802000.00) DC 0.075772 (91020924) AI ( 420000.00, 3802000.00) DC 0.075772 (91020924) AI ( 420000.00, 3802000.00) DC
                                                                                                                                                                                                                   0.04710 (91100424) AT ( 394000.00, 3953000.00)
0.04466 (91030324) AT ( 394000.00, 3953000.00)
   19.
                                                                                                                                                                                        44.
                                                                                                                                                                                                                                                                                                                                                      DC
   20.
                                                                                                                                                                                        45.
                                                                                                                                                                                                                                                                                                                                                      DC
                                                                                                                                                                                                                  0.04446 (91060524) AT ( 394000.00, 3953000.00) DC 0.04395 (91081024) AT ( 394000.00, 3953000.00) DC 0.04126 (91011024) AT ( 420000.00, 3802000.00) DC 0.04101 (91120824) AT ( 420000.00, 3802000.00) DC 0.03778 (91010524) AT ( 420000.00, 3802000.00) DC
   21.
                                                                                                                                                                                        46.
    22.
                                                                                                                                                                                        47.
    23.
                                                                                                                                                                                        48.
   24
                                                                                                                                                                                        49.
                             0.07542 (91020124) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                        SQ.
```

```
*** RECEPTOR TYPES: GC = GRIDCARI
                                         GZ = GRIDPOLR
                                         DC - DISCHART
                                         DP - DISCPOLR
                                         BD - BOUNDARY
                                                                 GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN FROJECT
Class 1 Analysis - 1991 Met - 6 MMITPY Bourly Average
                                                                                                                                                                                                                                     11/12/96
  *** ISCST3 - VERSION 96113 ***
                                                                                                                                                                                                                                     11:06:29
                                                                                                                                                                                                                                     PAGE 32
                                                                              RURAL ELEV
****ODELOPTS: CONC.
                                                           *** THE MAXIMUM 50 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PIT 2
                IME MAXIMUM 30 Z4-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GAODY: PIT Z INCLUDING SOURCE(S): DRLFIT1 , DRLFIT2 , DRLFIT3 , DRLFIT4 , DRLFIT5 , BLSFITZ , TRLFIT1 , TRLFIT1 , TRLFIT3 , TRLFIT3 , TRLFIT4 , TRLFIT5 , HAUL 1 , HAUL 2 , HAUL 3 , HAUL 4 , HAUL 5 , BGBSE1 , TRU_WST1, TRU_WST2, TRU_WST3 , TRU_WST4 , TRU_WST5 , DZG_W1 , DZG_W3 , DZG_W4 , DZG_W5 , ERSN_W1 , ERSN_W2 , ERSN_W3 , . . . .
                                                                                                              IN MICROGRAMS/M**3
                                                                          -- CONC OF PM-10
                                                                                                                               RANK CONC (YYM**DDHE) AT
                                                                                                                                                                                                          RECEPTOR (XR.YR) OF TYPE
                                                                       RECEPTOR (XR.YR) OF TYPE
                  CONC
                                TA (HEGGRANY)
RANK
______
                                                                                                                                                                                                    420000.00, 3802000.00) DC
                                                                                                                                            0.06989 (91113024) AT (
                  0.20257c(91120524) AT ( 420000.00, 3802000.00) DC
                                                                                                                                  25 -
                                                                                                                                                                                                      420000.00, 3802000.00)
                                                                                                                                                     0.06788 (91112324) AT (
                    0.16915c(91120924) AT ( 420000.00, 3802000.00) DC
                                                                                                                                   27.
                                                                                                                                                                                                      420000.00, 3802000.00) DC
                                                                                                                                                     0.06394c(91122724) AT (
                    0.16277 (91121024) AT ( 420000.00, 3802000.00) DC
                                                                                                                                   28.
                                                                                                                                                     0.06277 (91032624) AI ( 394000.00, 3953000.00)
                                                                                                                                                                                                                                                    DC
                    0.15587 (91011824) AT ( 420000.00, 3802000.00) DC
                                                                                                                                   29.
                                                                                                                                                    0.06234 (91121024) AT ( 394000.00, 3953000.00)

0.06013 (91040524) AT ( 420000.00, 3802000.00)

0.05850 (91011824) AT ( 394000.00, 3853000.00)

0.05784 (91123124) AT ( 420000.00, 3802000.00)
                                                                                                                                                                                                                                                    DC
                    0.13104 (91010124) AT ( 420000.00, 3802000.00) DC 0.12715 (91022324) AT ( 420000.00, 3802000.00) DC 0.12482 (91123024) AT ( 420000.00, 3802000.00) DC
                                                                                                                                   30.
                                                                                                                                                                                                                                                    DC
                                                                                                                                   31.
                                                                                                                                                                                                                                                    DC
                                                                                                                                   32.
                                                                                                                                                                                                                                                     DC
                   0.12435 (91022024) AT ( 420000.00, 3802000.00) DC 0.12236 (91122424) AT ( 420000.00, 3802000.00) DC
                                                                                                                                   33.
    8.
                                                                                                                                                    0.05560 (91071424) AT ( 394000.00, 3953000.00)
0.05555 (91042824) AT ( 42000.00, 3802000.00)
                                                                                                                                                                                                                                                     DC
                                                                                                                                   34.
    9.
                                                                                                                                                                                                                                                     DC
                   0.12007 (91110724) AT ( 420000.00, 3802000.00)
0.11382 (91010624) AT ( 394000.00, 3953000.00)
                                                                                                                    DC
                                                                                                                                   35.
   10.
                                                                                                                                                    0.05328 (91030424) AT ( 394000.00, 3953000.00)
                                                                                                                                                                                                                                                     DC
                                                                                                                    DC
                                                                                                                                   36.
                  0.11382 (91010624) AT ( 394000.00, 3953000.00) DC 0.10760 (91112324) AT ( 394000.00, 3953000.00) DC 0.10670 (91010824) AT ( 394000.00, 3953000.00) DC 0.10628 (91030224) AT ( 394000.00, 3953000.00) DC 0.10258 (91100924) AT ( 420000.00, 3802000.00) DC 0.0258 (91100924) AT ( 420000.00, 3802000.00) DC 0.09810 (91121424) AT ( 420000.00, 3802000.00) DC 0.09291 (91102424) AT ( 420000.00, 3802000.00) DC 0.08586 (91090324) AT ( 394000.00, 3953000.00) DC 0.08586 (91100824) AT ( 394000.00, 3953000.00) DC
                                                                                                                                                    0.05268 (91012224) AT ( 420000.00, 3802000.00)
                                                                                                                                                                                                                                                     DC
                                                                                                                                   37.
   12.
                                                                                                                                                    0.05216 (91102324) AT ( 420000.00, 3802000.00)
                                                                                                                                                                                                                                                     DC
                                                                                                                                   38.
   13.
                                                                                                                                                    0.05072 (91022824) AT ( 394000.00, 3953000.00)
                                                                                                                                   39.
                                                                                                                                                   0.04862 (91111624) AT ( 42000.00, 3953000.00)
0.04818 (91011424) AT ( 394000.00, 3953000.00)
0.04797 (91111924) AT ( 394000.00, 3953000.00)
0.04678 (91102424) AT ( 394000.00, 3953000.00)
                                                                                                                                                                                                                                                     DC
                                                                                                                                   40.
   15.
                                                                                                                                    41.
                                                                                                                                    42.
   17.
                                                                                                                                    43.
                                                                                                                                                   0.04650 (91100424) AI ( 394000.00, 3953000.00) DC
0.04403 (91060524) AI ( 394000.00, 3953000.00) DC
0.04351 (91030324) AI ( 394000.00, 3953000.00) DC
0.04351 (91031024) AI ( 394000.00, 3953000.00) DC
                     0.08487 (91110824) AT ( 394000.00, 3953000.00) DC 0.07900 (91012624) AT ( 420000.00, 3802000.00) DC
                                                                                                                                    45.
                                                                                                                                    46.
   21.
                     0.07885 (91091924) AT ( 420000.00, 3802000.00) DC 0.07669 (91111824) AT ( 420000.00, 3802000.00) DC
                                                                                                                                    47.
                                                                                                                                                  0.04341 (91081024) AT ( 394000.00, 3933000.00) DC
0.04099 (91011024) AT ( 420000.00, 3802000.00) DC
0.03988 (91120824) AT ( 420000.00, 3802000.00) DC
0.03759 (91010524) AT ( 420000.00, 3802000.00) DC
                                                                                                                                  48.
   23.
                                                                                                                                   49.
                     0.07465 (91020124) AT ( 420000.00, 3802000.00) DC 0.07422c(91010924) AT ( 420000.00, 3802000.00) DC
                                                                                                                                   50.
   *** RECEPTOR TYPES: GC = GRIDCART
                                           GP = GRIDPOLR
                                           DC - DISCLARI
                                           DP = DISCPOLE
                                           BD - BOUNDARY
                                                                                                                                                                                                                                      11/12/96
                                                                    *** GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT
   *** TSCST3 - VERSION 96113 ***
                                                                                                                                                                                                                                       11:06:29
                                                                    *** Class 1 Analysis - 1991 Met - 6 MMITY Hourly Average
                                                                                                                                                                                                                                       P4GE 33
                                                                                                                                                                                           MSGZRO
                                                                                RURAL ELEV
  **MODELOFTs: CONC
                                                             *** THE MAXIMUM 50 24-BR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PIT 3
                  INCLUDING SOURCE(S): DRLFIT , 
                                                                                                                    IN MICROGRAMS/M**3
                                                                            ** CONC OF PM-10
                                                                                                                                                                                                             RECEPTOR (XR.YR) OF TYPE
                                                                                                                                                                     (YYMADDEE) AI
                                                                                                                                                      CONC
                                                                           RECEPTOR (XR, YR) OF TYPE
                                                                                                                                  RANK
                      CONC (YYMDDEE) AT
  RANK
                                                                                                                                                    ------
                                                                                                                                                0.07217 (91113024) AT ( 420000.00, 3802000.00) DC
                                                                                                                                    26.
                      0.21109c(91120524) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                                       420000.00, 3802000.00)
                                                                                                                                                        0.07045 (91112324) AT (
                                                                     420000.00, 3802000.00) DC
                                                                                                                                     27.
                       0.17557c(91120924) AT (
                                                                                                                                                                                                        394000.00, 3953000.00)
                                                                                                                                                        0.06484 (91032624) AT (
                       0.17035 (91121024) AT ( 420000.00, 3802000.00) DC
                                                                                                                                     28.
                                                                                                                                                                                                      420000.00, 3802000.00)
                                                                                                                                                        0.06281c(91122724) AT (
                       0.16213 (91011824) AT ( 420000.00, 3802000.00) DC
                                                                                                                                     29.
                                                                                                                                                        0.06218 (91040524) AT ( 420000.00, 3802000.00)
                                                                                                                                     30.
                       0.13666 (91010124) AT ( 420000.00, 3802000.00) DC
                                                                                                                                                                                                       394000.00, 3953000.00)
                                                                                                                                                        0.06170 (91121024) AT (
                       0.13173 (91022324) AT ( 420000.00, 3802000.00) DC 0.13057 (91123024) AT ( 420000.00, 3802000.00) DC
                                                                                                                                     31.
                                                                                                                                                        0.06105 (91011824) AT (
                                                                                                                                                                                                       394000.00, 3953000.00)
                                                                                                                                     32.
                                                                                                                                                        0.06023 (91123124) AT ( 420000.00, 3802000.00)
                       0.12859 (91022024) AT ( 420000.00, 3802000.00) DC 0.12746 (91122424) AT ( 420000.00, 3802000.00) DC
                                                                                                                                     33.
                                                                                                                                                      0.05790 (91071424) AT ( 394000.00, 3953000.00)
0.05776 (91042824) AT ( 420000.00, 3802000.00)
                                                                                                                                                                                                                                                      DC
                                                                                                                                     34.
                                                                      420000.00, 3802000.00) DC
394000.00, 3953000.00) DC
                                                                                                                                                                                                        420000.00, 3802000.00)
                                                                                                                                                                                                                                                      DC
                                                                                                                                     35.
                                                                                                                                                    0.05512 (91012224) AT ( 420000.00, 3802000.00)
0.05396 (91102324) AT ( 420000.00, 3802000.00)
0.05373 (91022824) AT ( 394000.00, 3953000.00)
                       0.12514 (91110724) AT (
     10.
                                                                                                                                                                                                                                                      DC
                                                                                                                                     36.
                       0.11835 (91010624) AT (
                                                                                                                                                                                                                                                      DC
     11.
                                                                       394000.00, 3953000.00) DC
                                                                                                                                     37.
```

38.

DC

0.11202 (91112324) AT (

0.11091 (91010824) AT ( 420000.00, 3802000.00) DC

12.

```
15.
     16.
     17.
     18.
     19.
     20.
     21.
     22.
     23.
     Z4_
    25.
     *** RECEPTOR TYPES: GC - GRIDCART
                                                                         GP - GRIDPOLR
                                                                         DC - DISCHART
                                                                          DP - DISCROLR
                                                                          BD - BOUNDARY
    --- ISCSI3 - VERSION 96113 ---
                                                                                                                      GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT
                                                                                                                                                                                                                                                                                                                                                                                                                        11/12/96
                                                                                                                                                                                                                                                                                                                                                                                                       11:06:29
PAGE 34
                                                                                                                        Class 1 Analysis - 1991 Met - 6 MMTPY Hourly Average
 *********** CCHC
                                                                                                                                             RURAL ELEV
                                                                                                                                                                                                                                                                                                                                              MSGPRO
                                                                                                          THE MAXIMUM 50 24-SR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PII 4
                             INCLUDING SOURCE(S): DRLPII , 
                                                                                                                                       CONC OF FM-10
                                                                                                                                                                                                      IN MICZOGRAMS/M=+3
 RANK CONC (YMPODER) AT RECEPTOR (XR.YR.) OF TYPE RANK CONC (YMPODER) AT RECEPTOR (XR.YR.) OF TYPE
RANK
                            CINC (YTH-DDHH) AT RECEPTOR (RR,YH) OF TYPE 2ANK CINC (YTH-DDHH) AT RECEPTOR (RR,YH) OF TYPE 0.211222 (91120524) AT ( 420000.00, 3802000.00) DC 25. 0.07220 (91113024) AT ( 420000.00, 3802000.00) DC 0.17567c(91120924) AT ( 420000.00, 3802000.00) DC 27. 0.07050 (91112024) AT ( 420000.00, 3802000.00) DC 0.17046 (91121024) AT ( 420000.00, 3802000.00) DC 28. 0.06489 (91032624) AT ( 420000.00, 3953000.00) DC 0.13646 (91121024) AT ( 420000.00, 3802000.00) DC 0.13647 (91010124) AT ( 420000.00, 3802000.00) DC 0.13647 (91010124) AT ( 420000.00, 3802000.00) DC 0.13647 (91010124) AT ( 420000.00, 3802000.00) DC 0.13647 (91123024) AT ( 420000.00, 3802000.00) DC 0.13186 (91123024) AT ( 420000.00, 3802000.00) DC 0.13186 (91123024) AT ( 420000.00, 3802000.00) DC 0.13067 (91123024) AT ( 420000.00, 3802000.00) DC 0.12655 (91022024) AT ( 420000.00, 3802000.00) DC 0.12754 (91123024) AT ( 420000.00, 3802000.00) DC 0.12754 (91123224) AT ( 420000.00, 3802000.00) DC 0.12851 (91110724) AT ( 420000.00, 3802000.00) DC 0.12851 (91110724) AT ( 420000.00, 3802000.00) DC 0.12851 (91110724) AT ( 420000.00, 3802000.00) DC 0.12851 (91112324) AT ( 420000.00, 3802000.00) DC 0.12851 (91112324) AT ( 420000.00, 3802000.00) DC 0.12851 (91112324) AT ( 420000.00, 3802000.00) DC 0.12851 (91102324) AT ( 420000.00, 3802000.00) DC 0.12851 (91112324) AT ( 420000.00, 38020
     12.
     13.
     15.
     16.
     17.
     18.
    19.
    20 .
    21.
    22.
    23.
    24.
    25.
    *** RECEIOR THES: OC - GRIDCHE
                                                                          es - exidents
                                                                          DC - DISCLARI
                                                                          DP = DISCROLR
                                                                          ED - BOUNDARY
                                                                                                                      GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT
     --- ISCSI3 - VERSION 96113 ---
                                                                                                                                                                                                                                                                                                                                                                                                                            11/12/96
                                                                                                                                                                                                                                                                                                                                                                                     ***
                                                                                                                                                                                                                                                                                                                                                                                                                             11:06:29
 ***********************
                                                                                                                                             RURAL ELEV
                                                                                                                                                                                                                                                                                                                                              MSGZRO
                                                                                                           THE MAXIMUM 50 24-BR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: PII_5
                             INCLUDING SOURCE(S): DRLFIT2 , DRLFIT2 , DRLFIT4 , DRLFIT5 , DRLFIT5 , DRLFIT6 , BLSFIT5 , TRLFIT2 , TRLFIT3 , TRLFIT3 , TRLFIT5 , TRLFIT5 , TRLFIT5 , TRLFIT5 , TRLFIT6 , BAUL 1 , BAUL 2 , BAUL 3 , BAUL 4 , BAUL 5 , BAUL 6 , BGBS21 , TRU_WST1, TRU_WST1, TRU_WST4, TRU_WST5, DZG_W1 , DZG_W3 , DZG_W4 , DZG_W5 . . . . . .
                                                                                                                                       ** CONC OF PM-10
                                                                                                                                                                                                      IN MICHOGRAMS/MT-3
                                 CONC (YMAGODHE) AT RECEPTOR (XR, YR) OF TYPE RANK
```

CCMC (YYMADDHE) AT

RECEPTOR (XR, YR) OF TYPE

RAHK

```
0.21122c(91120524) AT ( 420000.00, 3802000.00) DC
                                                                                     0.07221 (91113024) AT ( 420000.00, 3802000.00) DC
                                                                          26.
                                                                                                                 420000.00, 3802000.00)
           0.17567c(91120924) AT ( 420000.00, 3802000.00)
                                                                 DC
                                                                                     0.07049 (91112324) AT (
                                                                                                                                            DC
                                                                          27.
 3.
           0.17046 (91121024) AT ( 420000.00, 3802000.00)
                                                                 DC
                                                                                     0.06489 (91032624) AT (
                                                                                                                 394000.00, 3953000.00)
                                                                                                                                            DC
                                                                          28
                                                                                                                 420000.00, 3802000.00)
420000.00, 3802000.00)
                                                                 DC
                                                                                     0.06335e(91122724) AT (
           0.16223 (91011824) AT ( 420000.00, 3802000.00)
                                                                          29.
                                                                                                                                            DC:
                                                                                     0.06223 (91040524) AT (
 5.
           0.13674 (91010124) AT (
                                      420000.00, 3802000.00)
                                                                 DC
                                                                          30.
                                                                                                                                            DC
                                                                                                                 394000.00, 3953000.00)
394000.00, 3953000.00)
           0.13181 (91022324) AT ( 420000.00, 3802000.00)
0.13066 (91123024) AT ( 420000.00, 3802000.00)
                                                                                     0.06219 (91121024) AT (
                                                                          31.
                                                                 DC
                                      420000.00, 3802000.00)
                                                                                     0.06108 (91011824) AT (
                                                                 DC
                                                                          32.
                                                                                                                                            DC
                                                                 DC
DC
                                                                                                                 420000.00, 3802000.00)
           0.12866 (91022024) AT (
                                      420000.00, 3802000.00)
                                                                                    0.06027 (91123124) AT (
 8.
                                                                          33.
                                                                                                                 394000.00, 3953000.00)
                                                                                     0.05794 (91071424) AT (
 9.
           0.12753 (91122424) AT (
                                       420000.00, 3802000.00)
                                                                          34.
                                                                                                                 420000.00, 3802000.00)
           0.12522 (91110724) AT (
                                      420000.00, 3802000.00)
                                                                 DC
                                                                                    0.05780 (91042824) AT (
10.
                                                                          35.
                                                                                    0.05516 (91012224) AT (
                                                                                                                 420000.00, 3802000.00)
           0.11850 (91010624) AT (
                                      394000.00, 3953000.00)
                                                                 DC
                                                                          36.
                                                                                                                                            DC
                                                                                    0.05399 (91030424) AT (
                                                                                                                 394000.00, 3953000.00)
           0.11211 (91112324) AT ( 394000.00, 3953000.00)
                                                                 DC
12.
                                                                          37.
                                                                          38.
                                                                                    0.05399 (91102324) AT (
                                                                 DC
                                                                                                                 420000.00, 3802000.00)
13.
           0.11098 (91010824) AT (
                                       420000.00, 3802000.00)
                                                                                                                                            DC
                                                                                                                 394000.00, 3953000.00)
           0.11061 (91030224) AT ( 394000.00, 3953000.00)
14.
                                                                 DC
                                                                          39.
                                                                                    0.05354 (91022824) AI (
                                                                                                                                            DC
15.
           0.10944 (91012524) AT (
                                       420000.00, 3802000.00)
                                                                  DC
                                                                          40 _
                                                                                    0.05088 (91111624) AT (
                                                                                                                 420000.00, 3802000.00)
           0.10721 (91100924) AT (
                                                                  DC
16.
                                       420000.00, 3802000.00)
                                                                          41.
                                                                                    0.04994 (91011424) AT (
                                                                                                                 394000.00, 3953000.00)
                                                                                    0.04974 (91111924) AT (
           0.10297 (91121424) AT (
17.
                                       420000.00, 3802000.00)
                                                                  DC
                                                                          42.
                                                                                                                 394000.00, 3953000.00)
                                                                                    0.04836 (91100424) AT (
0.04822 (91102424) AT (
           0.09686 (91102424) AT (
                                                                          43.
18
                                       420000.00, 3802000.00)
                                                                 DC
                                                                                                                 394000.00, 3953000.00)
                                                                                                                                            DC
           0.08966 (91090324) AT (
                                       394000.00, 3953000.00) DC
                                                                                                                 394000.00, 3953000.00)
19.
                                                                          44
                                                                                                                                            DC
           0.08800 (91110824) AT (
                                       394000.00, 3953000.00) DC
                                                                          45.
                                                                                    0.04592 (91060524) AT (
                                                                                                                 394000.00, 3953000.00)
20.
                                                                                                                                            DC
           0.08215 (91091924) AT ( 420000.00, 3802000.00) DC
0.08204 (91012624) AT ( 420000.00, 3802000.00) DC
0.08015 (91111824) AT ( 420000.00, 3802000.00) DC
0.07773c(91010924) AT ( 420000.00, 3802000.00) DC
0.07764 (91020124) AT ( 420000.00, 3802000.00) DC
                                                                                     0.04508 (91081024) AT (
                                                                                                                 394000.00, 3953000.00)
21.
                                                                          46.
                                                                                                                                            DC
                                                                          47.
22.
                                                                                    0.04460 (91030324) AT (
                                                                                                                 394000.00, 3953000.00)
                                                                                    0.04232 (91011024) AT (
                                                                                                                 420000.00, 3802000.00)
23
                                                                          48.
                                                                                                                                            DC
                                                                                    0.04164 (91120824) AT ( 420000.00, 3802000.00) DC 0.03889 (91073124) AT ( 394000.00, 3953000.00) DC
24.
                                                                           49.
25.
                                                                          50.
 *** RECEPTOR TYPES: GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCEART
                       DP - DISCROLR
                       BD - BOUNDARY
 *** ISCST3 - VERSION 96113 ***
                                      --- GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT
                                                                                                                                    11/12/96
                                     *** Class 1 Analysis - 1991 Met - 6 MMTFY Hourly Average
                                                                                                                                    11:06:29
***MODELOPTS: CONC
                                            RURAL ELEV
                                  *** THE MAXIMUM 50 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: FIT_6
         INCLUDING SOURCE(S): DRLPIT3 , DRLPIT4 , DRLPIT5 , DRLPIT6 , BLSPIT6 , TRLPIT3 , TRLPIT4 , TRLPIT5 , TRLPIT6 , BAUL 1 , BAUL 2 , BAUL 4 , BAUL 5 , BAUL 6 , BGBSE1 , TRU WST1, TRU WST2 , TRU WST3 , TRU WST4 , TRU WST5 , DZG W1 , DZG W2 , DZG W3 , DZG W4 , DZG W5 , ERSN W1 , ERSN W2 , ERSN W3 , ERSN W4 , ERSN W5 ,
                                           ** CONC OF PM-10
                                                                 IN MICROGRAMS/M**3
                                                                          RANK CONC (YYM-DDEH) AT RECEPTOR (XR,YR) OF
           CONC
RANK
                   (YYMDDEE) AI
                                         RECEPTOR (XR, YR) OF TYPE
                                                                          RANK
                                                                                                                    RECEPTOR (XR, YR) OF TYPE
            0.19815c(91120524) AT (
                                      420000.00, 3802000.00) DC
                                                                           25.
                                                                                      0.06875 (91113024) AT (
                                                                                                                 420000.00, 3802000.00)
                                                                  DC
                                                                                      0.06610 (91112324) AT (
            0.16578c(91120924) AT (
                                       420000.00, 3802000.00)
                                                                           27.
                                                                                                                  420000.00, 3802000.00)
  2.
                                       420000.00, 3802000.00) DC
420000.00, 3802000.00) DC
            0.15765 (91121024) AT (
                                                                                      0.06029 (91032624) AT (
                                                                                                                 394000.00, 3953000.00)
                                                                           28.
                                                                                                                                            DC
  3.
            0.15292 (91011824) AT (
                                                                                      0.06017c(91122724) AT (
                                                                                                                  420000.00, 3802000.00)
                                                                           29.
                                                                                                                                            DC
  4.
            0.12814 (91010124) AT (
                                                                                    0.05927 (91121024) AT ( 394000.00, 3953000.00)
0.05920 (91040524) AT ( 420000.00, 3802000.00)
                                       420000.00, 3802000.00) DC
                                                                                                                                            DC
  5.
                                                                           30.
            0.12537 (91022324) AT (
                                       420000.00, 3802000.00) DC
                                                                                                                                            DC
  6.
                                                                           31.
                                                                                     0.05774 (91011824) AT (
  7.
            0.12282 (91022024) AT (
                                      420000.00, 3802000.00) DC
                                                                           32.
                                                                                                                 394000.00, 3953000.00)
                                                                                                                                             DC
  а.
            0.12115 (91123024) AT (
                                      420000.00, 3802000.00)
                                                                  DC
                                                                           33.
                                                                                     0.05618 (91123124) AT (
                                                                                                                  420000.00, 3802000.00)
                                                                                                                                             DC
                                                                                                                 420000.00, 3802000.00)
                                                                                                                                             DC
            0.11938 (91122424) AT (
                                       420000.00, 3802000.00) DC
                                                                           34.
                                                                                      0.05460 (91042824) AT (
  9.
 10.
            0.11771 (91110724) AT (
                                      420000.00, 3802000.00)
                                                                  DC
                                                                           35.
                                                                                     0.05447 (91071424) AT (
                                                                                                                  394000.00, 3953000.00)
                                                                                                                                             DC
                                                                                                                  420000.00, 3802000.00)
            0.11307 (91010624) AT (
                                       394000.00, 3953000.00)
                                                                  DC
                                                                           36.
                                                                                      0.05150 (91102324) AT (
                                                                                                                                             DC
 11.
 12.
            0.10494 (91010824) AT (
                                       420000.00, 3802000.00)
                                                                  DC
                                                                           37.
                                                                                      0.05129 (91022824) AT (
                                                                                                                  394000.00, 3953000.00)
                                                                                                                                             DC
            0.10491 (91112324) AT (
                                       394000.00, 3953000.00) DC
                                                                           38.
                                                                                      0.05090 (91030424) AT (
                                                                                                                  394000.00, 3953000.00)
                                                                                                                                             DC
 13.
 14.
            0.10331 (91030224) AT ( 394000.00, 3953000.00)
                                                                  DC
                                                                           39.
                                                                                      0.05074 (91012224) AT (
                                                                                                                  420000.00, 3802000.00)
                                                                                                                                             DC
            0.10179 (91012524) AT ( 420000.00, 3802000.00)
                                                                  DC
                                                                           40.
                                                                                      0.04842 (91011424) AT (
                                                                                                                 394000.00, 3953000.00)
                                                                                                                                             DC
                                    ( 420000.00, 3802000.00) DC
                                                                                      0.04725 (91111624) AT (
                                                                                                                  420000.00, 3802000.00)
                                                                                                                                             DC
 16.
            0.09997 (91100924) AT
                                                                            41.
                                                                                      0.04638 (91111924) AT (
                                                                                                                  394000.00, 3953000.00)
                                                                                                                                             DC
 17.
            0.09554 (91121424) AT
                                    ( 420000.00, 3802000.00) DC
                                                                            42.
                                                                                      0.04541 (91100424) AT (
                                                                                                                  394000.00, 3953000.00)
                                                                                                                                             DC
            0.09092 (91102424) AT ( 420000.00, 3802000.00) DC
                                                                            43.
 18.
                                                                           44.
                                                                                      0.04412 (91102424) AT (
            0.08578 (91090324) AT ( 394000.00, 3953000.00) DC
                                                                                                                 394000.00, 3953000.00)
 19.
            0.08340 (91110824) AT (
                                        394000.00, 3953000.00) DC
                                                                            45.
                                                                                      0.04328 (91060524) AT (
                                                                                                                  394000.00, 3953000.00)
                                                                                                                                             DC
 20
            0.07744 (91012624) AT (
                                        420000.00, 3802000.00) DC
                                                                                      0.04258 (91081024) AT (
                                                                                                                  394000.00, 3953000.00)
 21.
                                                                            46.
            0.07740 (91091924) AT ( 420000.00, 3802000.00) DC
                                                                                      0.04133 (91030324) AT ( 394000.00, 3953000.00)
                                                                                                                                             DC
 72
                                                                            47.
            0.07488 (91111824) AT ( 420000.00, 3802000.00) DC
                                                                                      0.04053 (91011024) AT ( 420000.00, 3802000.00)
                                                                                                                                             DC
 23.
                                                                           48.
            0.07333 (91020124) AT ( 420000.00, 3802000.00) DC 0.07173e(91010924) AT ( 420000.00, 3802000.00) DC
                                                                                      0.03812 (91120824) AT ( 420000.00, 3802000.00) 0.03726 (91010524) AT ( 420000.00, 3802000.00)
                                                                                                                                             DC
 24.
                                                                           49.
 25.
                                                                           50
 *** RECEPTOR TYPES: GC = GRIDCART
                        GP = GRIDPOLR
                        DC = DISCCARI
                        DP = DISCROLR
                        BD - BOUNDARY
```

11/12/96

GOLDEN OUTER MINING COMPANY - SOLEDAD MOUNTAIN PROJECT

\*\*\* ISCST3 - VERSION 96113 \*\*\*

11:06:29 PAGE 37

\*\*MODELOPTs: CONC

RURAL ELEV

MSGPRO

\*\*\* THE SUMMARY OF MAXIMUM FERIOD ( 8760 HRS) RESULTS \*\*\*

\*\* CONC OF PM-10 IN MICROGRAMS/M\*\*3

GROUP ID	AVER	AGE CONC	REC	EPTOR (XR, YR,	ZZLEV, ZF	LAG) OF TYPE	NETWORK GRID-ID
ALL 1ST HIGH	ST VALUE IS	0.01232 AT (	420000.00	3802000.00,	853.44,	0.00) DC	NA.
	ST VALUE IS	0.00814 AT (	394000.00	3953000.00	853 44	0.00) DC	na Na
	ST VALUE IS	0.00814 AT ( 0.00000 AT (	0.00.	0.00	0.00	0.00)	itre.
4TH HIGH				0.00.	0.00	0.00)	
STH HIGH	ST VALUE IS	0.00000 AT (	0.00, 0.00, 0.00.	0.00.	0.00	0.00)	
	ST VALUE IS	0.00000 AT ( 0.00000 AT (	0.00,	0.00,	0.00, 0.00, 0.00,	0.00)	
	ST VALUE IS	0.01031 AT (	420000.00.	3802000.00.	853.44.	0.00) DC	NA
	ST VALUE IS	0.00533 AT ( 0.00000 AT (	394000.00,	3953000.00.	853.44	0.00) DC	NA.
	ST VALUE IS	0.00000 AT (	0.00,	0.00.	0.00.	0.00)	
	21 AUTHE IZ	0.00000 AT /	0.00,	0.00.	0.00.	0.00)	
STH HIGH	ST VALUE IS	0.00000 AT (	0.00.	0.00.	0.00.	0.00)	
6TH HIGH	IST VALUE IS	) TA 00000.0 ) TA 00000.0	0.00,	0.00, 0.00, 0.00,	0.00,	0.00)	
	ST VALUE IS	0.01018 AT (	420000.00,	3802000.00,	853.44.	0.00) DC	NA.
		4-44-50 57 /	024000.00,	3733000.00.	853.44.	0.00) DC	NA
	SI VALUE IS	0.00000 AT (	0.00.	0.00.	0.00.	0.00)	<del></del>
4TH HIGH	EST VALUE IS	O OCCOON AT /	0.00.	0.00	0.00	0.00)	•
	ST VALUE IS	) IA 00000.0	0.00, 0.00,	0.00.	0.00.	0.00)	
6TH HIGH	ST VALUE IS	) TA 00000.0 ) TA 00000.0	0.00,	0.00, 0.00, 0.00,	0.00,	0.00)	
	EST VALUE IS	0.01052 AT ( 0.00541 AT ( 0.00000 AT (	420000.00.	3802000.00.	853.44.	0.00) DC 0.00) DC	NA
	SI VALUE IS	0.00541 AT (	394000.00.	3953000.00.	853.44	0.00) DC	NA.
3RD HIGH	EST VALUE IS	0.00000 AT (	0.00.	0.00.	0.00	0.00)	
4TH HIGH	ST VALUE IS	0.00000 AT (	0.00.	0.00.	0.00	0.00)	
	ST VALUE IS	0.00000 AT (	0.00.	0.80.	0.00.	0.00)	
6TH HIGH	EST VALUE IS	0.00000.0 TA 00000.0 TA 00000.0	0.00,	0.00, 0.00, 0.00,	0.00,	0.00)	
	est value is	0.01055 AT ( 0.00542 AT (	420000.00,	3802000.00.	853.44.	0.00) DC	NA.
	EST VALUE IS	0.00542 AT (	394000.00,	3953000.00.	853.44.	0.00) DC	NA.
	MATOR 12	0.00000 AT (	0.00.	0.00.	0.00.	0.00)	
4TH HIGH	est value is	0.00000 AT (	0.00,	0.00.	0.00.	0.00)	
	est value is	0.00000 AT (	0.00.	0.00.	0.00.	0.00)	
6TH HIGH	est value is	0.00000.0 TA 00000.0 TA 00000.0	0.00,	0.00. 0.00. 0.00,	0.00,	0.00)	
	est value is	0.01055 AT ( 0.00543 AT (	420000.00,	3802000.00,	853.44.	0.00) DC	NA
	est value is	0.00543 AT (	394000.00,	3953000.00,	853.44	0.00) DC	NA
	EST VALUE IS	0.00000 AT (	0.00.	0.00.	0.00.	0.00)	
	est value is	0.00000 AT (	0.00	0.00.	0.00	0.00)	
	est value is	0.00000 AT ( 0.00000 AT ( 0.00000 AT (	0.00	0.00, 0.00, 0.00	0.00.	0.00)	
6TH HIGH	EST VALUE IS	0.00000 AT (	0.00.	0.00,	0.00,	0.00)	
	EST VALUE IS	0.00993 AT ( 0.00513 AT (	420000.00.	3802000.00.	853.44.	0.00) DC	NA.
2ND HIGH	est value is	0.00513 AT (	394000.00.	3953000.00,	853.44	0.00) DC	NA.
3RD HIGH	EST VALUE IS	0.00000 AT (	0.00	0.00	0.00	0.00)	4164
4IH HIGH	EST VALUE IS	0.00000 AT (	0.00	0.00.	0.00	0.00)	
STE HIGH	EST VALUE IS	0.00000 AT (	0.00	0.00	0.00	0.00)	
6TH HIGH	EST VALUE IS	0.00000 AT (	0.00,	0.00, 0.00, 0.00, 0.00,	0.00,	0.00)	
*** RECEPTOR TYP	ES: GC = GRIDCAF GP = GRIDPOI DC = DISCCAF DP = DISCCAF	ia U					

DF = DISCPOLR BD = BOUNDARY

\*\*\* ISCST3 - VERSION 96113 \*\*\*

GOLDEN QUEEN MINING COMPANY - SOLEDAD MOUNTAIN PROJECT
Class 1 Analysis - 1991 Met - 6 MMTPY Hourly Average

11/12/96 11:06:29 PAGE 39

\*\*MODELOPTs: CONC

RURAL ELEV

MSGFRO

\*\*\* THE SUMMARY OF HIGHEST 24-HR RESULTS \*\*\*

\*\* CONC OF PM-10 IN MICROGRAMS/M\*\*3

GROUP ID		AVE	LAGE CONC	DATE (YM**DDHH)	RECEP	TOR (XR, YR,	MELEV, ZFLAG)	OF :	TYPE	METWORK GRID-ID
ALL	HIGH 1ST	HIGH VALUE IS	0.22910c O	N 91120524: AT	( 420000.00,	3802000.00,	853.44,	0.00)	DC	NA
PIT_1	HIGH 1ST	HIGH VALUE IS	0.20528c O	N 91120524: AT	( 420000.00,	3802000.00,	853.44,	0.00)	DC	MA
PIT_2	HIGH 1ST	eige value is	0.20257c O	N 91120524: AT	( 420000.00,	3802000.00,	853.44.	0.00)	DC	KA
PIT_3	साव्य १९७	eige value is	0.21109c Q	N 91120524: AT	( 420000.00,	3802000.00,	853.44,	0.00)	DC	NA
PIT_4	HIGH 1ST	HIGH VALUE IS	0.21122c O	N 91120524: AI	( 420000.00,	3802000.00,	853.44,	0.00)	DC	NA
PIT_S	साद्य १८४	HIGH VALUE IS	0.21122c O	N 91120524: AT	( 420000.00,	3802000.00,	853.44,	0.00)	DC	NA
PIT_6	HIGH IST	HIGH VALUE IS	0.19815c 0	N 91120524: AT	( 420000.00.	3802000.00,	853.44,	0.00)	DC	NA
*** REC	EPTOR TYPES	: GC = GRIDCARI GP = GRIDPOLR DC = DISCCARI DF = DISCPOLR ED = BOUNDARY								
*** ISC	SI3 - VERSI				ANY - SOLEDAD M Met - 6 MMTFY B		•	***		11/12/96 11:06:29 PAGE 40
************	OPTs: CONC		RURAL E	LEV			MSGPRO			

\*\*\* Message Summary : ISCST3 Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 5 Warning Message(s)
A Total of 14 Informational Message(s)
A Total of 14 Calm Hours Identified

| WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MESSAGES | WARNING MES

\*\*\* ISCST3 Finishes Successfully \*\*\*



# Visual Effects Screening Analysis for Source: Golden Queen Mining

Class I Area: Dome Land Wilderness

\*\*\* User-selected Screening Scenario Results \*\*\* Input Emissions for

Particulates	21.80	G	/S
NOx (as NO2)	.00	G	/S
Primary NO2	.00	G	/S
Soot	.00	G	/S
Primary SO4	.00	G	/S

#### PARTICLE CHARACTERISTICS

		Density	Diameter		
Primary	Part.	2.5	6		
Soot		2.0	1		
Sulfate		1.5	4		

### Transport Scenario Specifications:

Background Ozone:	. 04	
Background Visual Range:	50.00	km
Source-Observer Distance:	80.00	km
Min. Source-Class I Distance:	80.00	km
Max. Source-Class I Distance:	100.00	km
Plume-Source-Observer Angle:	11.25	degrees
0+1:1:4		-

Stability: 6
Wind Speed: 1.00 m/s

#### RESULTS

Asterisks (\*) indicate plume impacts that exceed screening criteria

## Maximum Visual Impacts INSIDE Class I Area Screening Criteria ARE NOT Exceeded

					Delta E			Crast
Backgrnd	Theta	Azi	Distance	Alpha	Crit	Plume		Plume
SKY SKY TERRAIN TERRAIN		84. 84. 84. 84.	80.0 80.0 80.0 80.0	84. 84.	2.00 2.00 2.00 2.00	1.035 .165 .554 .115	.05 .05 .05	.015 008 .006 .004

## Maximum Visual Impacts OUTSIDE Class I Area Screening Criteria ARE NOT Exceeded

					Delta E		Con	trast
Backgrnd	Theta	Azi	Distance	Alpha		Plume	Crit	Plume
SKY SKY TERRAIN TERRAIN	10. 140. 10. 140.	30. 30. 50. 50.	60.7 60.7 69.9 69.9	139. 139. 119. 119.	2.00 2.00 2.00 2.00	1.271 .198 .702 .155	.05 .05 .05	.017 009 .007

"Golder "Dome	n Queen N Land Wild	Mining derness													
1 21	. 800	.000 80.000 0 3 0 8 0 6 0 1	.00 100.00		.000	.00	0								
1 2 3 4 5 6 7 8 9 10 10 0 0 0 11 1 11 11 11 11 11 10 0 0 0 0 0 0 11 11	5.0 10.0 20.0 20.0 35.0 45.0 35.0 45.0 50.0 65.0 95.0 105.0 105.0 115.0 125.0 135.0 145.0	163.8 158.8 148.8 143.8 128.8 128.8 128.8 113.8 113.8 103.8 113.8 103.8 103.8 103.8 113.8 103.8 113.8 103.8 113.8 103.8 113.8 103.8 113.8 103.8 113.8 103.8	24.9 38.38 462.7 27.5 663.5 671.6 665.0 671.6 671.7 777.8 813.6 9.9 101.6 11.2 10.0 10.0 10.0 10.0 10.0 10.0 10.0	55.8 435.13 300.47 221.60 18.8 17.15 16.18 15.66 17.17 16.18 15.66 17.17 16.18 16.79 16.74 17.18 18.84 19.86 19.17 19.17 19.18	50.3	1.34	. 050 . 050	2.00 2.00 20.00 20	.91 1.12 1.23 1.26 1.27 1.26 1.27 1.26 1.27 1.10 1.17 1.10 1.01 1.01 1.01 1.03 1.01 1.03 1.01 1.03 1.03	2.00 2.00 2.00 20.00 20.	.08 .14 .18 .19 .20 .20 .19 .19 .19 .18 .17 .17 .16 .15 .14 .13 .11 .10 .08 .03 .01	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	28 .49 .59 .666 .680 .770 .667 .559 .555 .540 .482 .110 .001 .000 .7553 .001 .002 .553 .002 .002 .553 .002 .003 .003 .003 .003 .003 .003 .00		.08 .124.15 .166.166.166.166.166.166.166.166.166.16
3 0 0 0 0 0 0 0 0 0 0 0 0 0 11 12 1 1 1 1	15.000 20.000 35.000 35.000 40.000 45.000 55.000 65.000 70.000 75.000 80.000 95.000 100.000 115.000 115.000 125.000 125.000 136.000 146.000 146.000	.050 .050 .050 .050 .050 .050 .050 .050	.013 .015 .015 .017 .017 .017 .017 .017 .016 .015 .015 .014 .014 .012 .012 .019 .008 .004 .002 .0015 .008	.004 .005 .006 .007 .007 .007 .007 .007 .007 .007	007 008 009 009 009 009 009 008 008 008 007 007 007 006 005 005 004 002 002 003 004 002 003 003 004 003 004 004 005	.004 .005 .005 .005 .005 .005 .005 .005	.005 .007 .008 .009 .010 .011 .011 .012 .012 .012 .011 .011	.001 .001 .002 .002 .002 .002 .002 .002	003 004 005 006 006 006 006 007 007 006	.002 .002 .002 .002 .002 .002 .001 .001	.01: .02: .02: .02: .01: .01: .01: .01: .01: .01: .01: .01	9 .010 0 .011 0 .012 0 .012 0 .012 0 .012 9 .012 9 .012 9 .012 8 .012 8 .012 8 .012 8 .012 8 .013 0 .001 0 .009 6 .009 6 .009 6 .003 2 .003 2 .003 2 .003 3 .003 4 .003 2 .003 3 .003 4 .003 6 .000 6 .000		9 .009 9 .009 9 .009 9 .009 9 .009 9 .009 9 .009 9 .009 9 .008 8 .008 8 .008 8 .007 108 .006 107 .005	

Visual Effects Screening Analysis for Source: Golden Queen Mining Class I Area: San Gabriel Mountains

Level-1 Screening \*\*\* Input Emissions for

Particulates	21.80	G	/S
NOx (as NO2)	.00	G	/S
Primary NO2	.00	G	/S
Soot	.00	G	/S
Primary SO4	.00	G	/S

\*\*\*\* Default Particle Characteristics Assumed

## Transport Scenario Specifications:

Background Ozone:	. 04	ppm
Background Visual Range:	50.00	km
Source-Observer Distance:	76.00	km
Min. Source-Class I Distance:	76.00	km
Max. Source-Class I Distance:	100.00	km
Plume-Source-Observer Angle:	11.25	degrees
Stability: 6		
Wind Speed: 1.00 m/s		

#### RESULTS

Asterisks (\*) indicate plume impacts that exceed screening criteria

## Maximum Visual Impacts INSIDE Class I Area Screening Criteria ARE NOT Exceeded

					Delta E		Contrast			
Backgrnd	Theta	Azi	Distance	Alpha	Crit	Plume		Plume		
SKY SKY TERRAIN TERRAIN	10. 140. 10. 140.	84. 84. 84. 84.	76.0 76.0 76.0 76.0	84. 84.	2.00 2.00 2.00 2.00	1.155 .185 .668 .136	.05 .05 .05	.017 009 .007 .005		

## Maximum Visual Impacts OUTSIDE Class I Area Screening Criteria ARE NOT Exceeded

Screening Official and A					ta E	Con	trast	
Backgrnd	Theta	Azi	Distance	Alpha	Crit	Plume	Crit	Plume
SKY SKY TERRAIN TERRAIN	140. 10.	25. 25. 50.	54.3 54.3 66.4 66.4	144. 144. 119. 119.	2.00 2.00 2.00 2.00 2.00	1.459 .227 .847 .183	.05 .05 .05	.019 010 .009 .006

"Gold	en Queen Gabriel M	Mining Sountain	ns "												
1	1.800	.000		00	.000	n	00								
7	6.000	76.000	100.0		50.000										
1	1.50 2.50	8 00													
1 1 1	2.50	10 6													
1	1.50	0 4													
1	.04	i0 1	1.000	6											
34															
1 0 2 0 3 0		163.8 158.8	23.7 36.4	53.0 40.9	63.0 54.1	.30 .44	.050 .050	2.00 2.00	.63 1.06	2.00 2.00	.10 .17	2.00 2.00	.36 .50	2.00 2.00	.11
	15.0	153.8	44.5	33.5	47.8	. 57	.050	2.00	1.37	2.00	.21	2.00	. 63	2.00	.15 .18
4 0 5 0		148.8 143.8	50.1 54.3	28.6 25.1	43.0 39.4	.69 .80	.050 .050	2.00 2.00	1.44 1.46	2.00 2.00	. 22 . 23	2.00 2.00	.68 .74	2.00 2.00	.19
6 0	30.0	138.8	57.6	22.5	36.7	.90	.050	2.00	1.45	2.00	. 23	2.00	.78	2.00	.19 .19
7 0 8 0		133.8 128.8	60.3 62.6	20.5 19.0	34.5 32.8	1.00	.050 .050	2.00 2.00	1.43 1.41	2.00 2.00	. 22 . 22	2.00 2.00	.81 .83	2.00 2.00	.19 .19
9 0	45.0	123.8	64.6	17.8	31.5	1.17	.050	2.00	1.37	2.00	. 22	2.00	. 84	2.00	.19
10 0 11 0		118.8 113.8	66.4 68.0	16.9 16.2	31.5 30.5 29.8	1.24	.050 .050	2.00 2.00	1.34 1.31	2.00 2.00	.21	2.00 2.00	. 85 . 84	2.00 2.00	.18 .18
12 0	60.0	108.8	69.5	15.7	29.3	1.35	.050	2.00	1.28	2.00	. 20	2.00	. 83	2.00	. 17
13 0 14 0		103.8 98.8	70.9 72.3	15.3 15.0	29.1	1.39	.050 .050	2.00	1.25	2.00 2.00	. 20 . 20	2.00	.81 .78	2.00	.17 .16
15 0	75.0	93.8	73.6	14.9	29.3 29.1 29.1 29.3 29.8	1.44	.050	2.00	1.23	2.00	. 19	2.00	.75	2.00	.15
16 0 17 1		88.8 83.8	74.9 76.2	14.8 14.9	30.5	1.45	.050 .050	2.00 2.00	1.18	2.00 2.00	.19	2.00 2.00	.71 .66	2.00 2.00	.14 .13
17 1 18 1 19 1 20 1	90.0 95.0	78.8 73.8	77.5 78.9	15.1 15.4	30.5 31.5 32.8	1.43	.050 .050	2.00 2.00	1.13	2.00 2.00	.18 .18	2.00 2.00	.61 .55	2.00 2.00	.12 .11
20 1	100.0	68.8	80.3	15.9 16.5	34.5 36.7 39.4 43.0	1.37	.050	2.00	1.08	2.00	. 17	2.00	.49	2.00	.10
21 1 22 1	105.0 110.0	63.8 58.8	81.9 83.5	16.5 17.3	36.7	1.32	.050 .050	2.00 2.00	1.05 1.02	2.00 2.00	.17 .16	2.00 2.00	.42 .35	2.00 2.00	.09 .08
23 1	115.0	53.8	85.4	18.4	43.0	1.20	.050	2.00	.99	2.00	. 16	2.00	.35	2.00	.06
21 1 22 1 23 1 24 1 25 1 26 1 27 1	120.0 125.0	48.8 43.8	87.5 90.0	19.7 21.4	47.8 54.1	1.13	.050 .050	2.00 2.00	.94 .89	2.00 2.00	.15 .14 .13	2.00 2.00	.20 .13 .07	2.00 2.00	.05 .03
26 1 27 1	130.0 135.0	38.8 33.8	93.0 96.7	23.7 26.7	63.0 76.0	.95 .85	.050 .050	2.00	. 82 . 72	2.00 2.00	.13 .11	2.00 2.00	.07 .03	2.00 2.00	.02 .01
28 0	140.0	28.8	101.6	30.8	96.7	.74	.050	2.00	.60	2.00	.09	2.00	.01	2.00	.00
29 0 30 0	145.0 150.0	23.8 18.8	108.2 118.2	36.8 46.1	134.4 222.8	.63 .51	.050 .050	2.00 2.00	. 44 . 26	2.00 2.00	.07	2.00 2.00	.00	2.00 2.00	.00
31 0	155.0	13.8	135.1	62.4	666.8	.38	.050	2.00	.10	2.00	.02	2.00	.00	2.00	.00
32 0 33 1 34 1	.1 84.4	168.6 84.4	1.0 76.0	75.0 14.9	75.5 30.4	.05 1.45	.093 .050	5.54 2.00	.33 1.16	2.00	.05 .19	5.54 2.00	.36 .67	2.00 2.00	.11 .14
34 1 34	138.5	30.2	100.0	29.5	89.5	.77	.050	2.00	.64	2.00	.10	2.00	.01	2.00	.00
10	5.000	.050	.006	.003	003	.003	.001	. 000		.000	.012	.008	006		
2 0 3 0	10.000 15.000	.050 .050	.012 .016	.004 .006	006 008	.004 .005	.004 .006	.001 .001			.018 .023	.011 .013 .013	009 011		
4 0 5 0 6 0	20.000 25.000	.050 .050	.018 .019	.006 .007	009 010	.006	.008	.002	005	.001	.023	.013	011	.011	
6 0	30.000	.050	.020	.008	010	.006 .006	.010 .011	.002	006	.002	.023	.014	011 011	011	
7 0 8 0	35.000 40.000	.050 .050	.020 .020	.008 .008	010 010	.006 .006	.012 .013	.003		.002	.023	.014	011 010		
9 0	45.000	.050	.020	.009	010	.006	.013	.003	007	.002	.022	.014	010	.010	
10 0 11 0	50.000 55.000	.050 .050	.020 .020	.009 .009	010 010	.006 .006	.013 .014	.003		.002	.021	014	010 010		
12 0 13 0	60.000 65.000	.050 .050	.01 <del>9</del> .019	.009	010 010	.006	.014 .014	.003			.020	.014	009		
14 0	70.000	.050	.019	.008	009	.005	.013	.003	008	.002	.019	.013	009	.009	
15 0 16 0	75.000 80.000	.050 .050	.018 .018	.008 .007	009 009	.005 .005	.013 .013	.003		.002	.019 .018		009 009		
17 1	85.000	.050	.017	.007	009	.004	.013	.002	007	.002	.018	.011	008	.007	
18 1 19 1		.050 .050	.017 .017	.006 .006	009 008	.004 .004	.012 .012	.002 .002		.002	.018 .017		008 008	.007	
20 1	100.000	.050	.016	.005	008	.003	.011	.002	006	.001	.017	.009	008	.006	
22 1	105.000 110.000	.050 .050	.016 .015	.004	008 008	.003	.011 .010	.001 .001			.017 .016		008 008		
23 1 24 1	115.000 120.000	.050 .050	.014 .013	.003 .002	007 007	.002 .001	.009	.001	005	.000	.016	.005	007		
25 1	125.000	.050	.012	.001	006	.001	.008	.000 .000	004	.000	.015	.003	007 007	.002	
26 1	130.000 135.000	.050 .050	.011 .009	.001	006 005	.000	.006	.000		.000	.013	.002	006	.001	
28 0	140.000	.050	.007	.000	004	.000	.003	.000	002	.000	.010	.000	005	.000	
30 0	145.000 150.000	.050 .050	.005 .003	.000	003 001	.000	.002 .001	.000			.007	.000	003 002	.000	
31 0 32 0	155.000	.050	.001	.000	000	.000	.000	.000	.000	.000	.002	.000	001	000	
33 1	84.375	.050	.017	.003 .007	001 009	.003 .005	.000 .013	.000 .002	007	.002	.007 .018	.011	003 008	.007	
34 1	138.536	.050	.008	.000	004	.000	.004	.000	002		.010	.000	005		



A C E 2 5 8 8 --- ASSESSMENT OF CHEMICAL EXPOSURE FOR AB 2588 --- VERSION 93288

\*\*\* A MULTI-SOURCE, MULTI-POLLUTANT, MULTI-PATHWAY RISK ASSESSMENT MODEL
DEVELOPED BY APPLIED MODELING INC. AND SANTA BARBARA COUNTY APCD \*\*\*

Distributed and Maintained by CAPCOA

#### \*\*\* INFUT MODELING PARAMETERS \*\*\*

DISPERSION MODELING OPTION = 1
RISK ASSESSMENT OPTION = 0
NONCANCER ACUTE OPTION = 1
DIAGNOSTIC FRINT OUTPUT OPTION = 0
NUMBER OF RECEPTORS = 451
NUMBER OF SOURCES = 466
NUMBER OF POLLUTANTS = 22
NUMBER OF DISPERSION MODELING BOURS = 8760
NUMBER OF DISPERSION MODELING DAYS = 365

IDODIS = 1 -> ISCST DISPERSION MODELING WITH SEQUENTIAL METEOROLOGY ANNUAL CONCENTRATIONS COMPUTED AS AVERAGES OF 1-BOUR CONC.

IDORISK = 0 -> FULL MODEL RUN FOR RISK ASSESSMENT FROM ALL SOURCES AT ALL RECEPTORS

IDOACU - 1 -> NONCANCER ACUTE EXPOSURE PERFORMED

IDOPRT = 0 -> DIAGNOSTIC PRINT OUTPUT NOT CREATED

IDENTIFICATION NUMBERS OF MODELED POLLUTANTS:

1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET, PM10 \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\gqmace.dat Output File: g:\beest\GQ\GQmaCE.OUT 11/14/96 07:00:20 Fage ~ 3

#### \*\*\* POLLUTANT-SPECIFIC DATA \*\*\*

NAME	SYMBOL	NUM	UNIT RISK	POTENCY		CHRONIC AEL	ORAL DOSE		CER	ONI	CI		END				ACU	IE	TOX	EN	DPO	INT	S
			(ug/m3)-1	(mg/kg-d)	-1 (ug/m3)	) (ug/m3)	(mg/kg-d)	CA	C24	M	XI	LI	RP	RE	SK	CA	CX	IM	KI	LI	RP	RE	EY
		_						_	_	_	_	_	_	_	_	_	_	_		_		_	
Acetaldebyde	ACETA	1	2.70E-06	0.00E+00	0.00E+00		0.00E+00	0	0	a	Q	Q	q	1	Q.	0	0	0	0	G	0	G	0
Acrolein	ACROL	3	0.00E+00	0.00E+00	2.50E+00	2.00E-02	0.00E+00	0	0	0	C	0	0	1	C	0	Q	0	Q	0	O	1	0
Arsenic	Aع	10	3.30E-03	1.70E+00	0.00E+00	5.00E-01	1.00E-03	1	1	G	0	0	0	1	1	a	0	0	0	0	٥	a	0
Benzene	BENZE	13	2.90E-05	0.00E+00	0.00E+00	7.10E+01	0.00E+00	0	1	0	0	0	0	0	0	3	0	0	0	0.	0	0	0
Beryllium	Be	17	2.40E-03	4.30E+00	0.00E+00	4.80E-03	5.00E-03	0	G	0	0	Œ	0	1	٥	0	0	0	C	0	0	G	G
Cadmium	Cd	22	4.20E-03	0.00E+00	0.00E+00	3.50E+00	1.00E-03	0	0	0	1	0	Q	1	0	0	0	0	0	0	0	0	Q
Chromium (hex.)	Cr	36	1.40E-01	4.20E-01	0.00E+00	2.00E-03	5.00E-03	0	0	0	1	1	0	1	0	0	0	Q	0	0	Q	8	0
Copper	Cu	38	0.00E+00	0.00E+00	1.00E+01	2.40E+00	0.00E+00	O	0	0	0	Q	O	1	Q	0	0	0	0	0	0	1	0
Formaldehyde	ECEC	70	6.00E-06	0.00E+00	3.70E+02	3.60E+00	0.00E+00	0	0	0	0	٥	0	1	a	0	0	0	0	Q	0	1	0
Hydrogen cyanide	ECN	79	0.00E+00	0.00E+00	3.30E+03	7.00E+01	0.00E+00	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	G
Lead	Pb	83	8.00E-05	0.00E+00	0.00E+00	1.50E+00	4.30E-04	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0
Manganese	Ma	8.5	0.00E+00	0.00E+00	0.00E+00	4.00E-01	0.00E+00	0	1	3	Ó	0	0	1	Q	Q	0	0	0	0	0	0	0
Mercury	Hg	87	0.00E+00	0.00E+00	3.00E+01	3.00E-01	3.00E-04	1	1	0	1	1	0	1	3	0	1	0	1	1	0	0	Q
Nickel	Ní	111	2.60E-04	0.00E+00	1.00E+00	2.40E-01	0.00E+00	0	a	1	1	0	a	1	0	0	a	1	0	a	0	a	0
Naphthalene	NAPTH	110	0.00E+00	0.00E+00	0.00E+00	1.40E+01	4.00E-03	1	à	ā	ā	à	ō	ō	Q	à	٥	0	0	0	Ò	G	Ġ.
	EC PAH	130	1.70E-03				0.00E+00	ã	ã	ă	ă	ã	ã	ŏ	ă	ō	ā	ã	ā	ă	ã	ā	ā
Propylene	PROPL	134					0.00E+00	ō	ō	ō	ō	ā	ā	ā	ā	ā	ā	ā	ā	ā	ū	ā	ā
Selenium	Se	137	1.40E-04				0.00E+00	ā	ň	ñ	ō	ō	ō	1	ō	ā	ā	Õ	ñ	ā	ō	1	ā
Toluene	TOL	145					0.00E+00	ň	1	ň	ň	ă	1	ā	ã	ā	ŏ	ŏ	ă	ŏ	ă	ā	ň
Xylene	XYLEN	151					0.00E+00	ň	ñ	ň	ň	ň	ī	•	ň	ñ	ŏ	ŏ	ŏ	ă	ň	1	ŏ
Zinc	20	152					0.00E+00	7	ň	ŏ	ň	ŏ	ā	₹	ň	ň	ň	ŏ	ŏ	ñ	ŏ	ñ	ň
NonToxic PM10	NIXPM						0.00E+00	ā	ŏ	ă	ň	ŏ	ă	ā	ň	ŏ	ŏ	ŏ	ŏ	Š	ŏ	ň	ŏ
MOUTOWEG ELITA	STAFF	998	0.00E+00	0.00E+00	0.005700	0.005700	U. UUETUU	u	u	u	u	v	u	ų	•	U	u	u	u	u	U	¥	•

TOTAL NUMBER OF MODELED FOLLUTANTS = 22

NUMBER OF CARCINOGENIC POLLUTANTS = 11

1 10 13 17 22 36 70 83 111 130 137

NUMBER OF MULTIPATHWAY POLLUTANTS = 8

10 17 22 36 83 87 110 130

NUMBER OF POLLUTANTS WITH ACUTE NON-CANCER RISK = 8

3 38 70 79 87 111 137 151

MAXIMUM NUMBER OF ACUTE TOXICOLOGICAL ENDPOINTS = 3

NUMBER OF POLLUTANTS WITH CERONIC NON-CANCER RISK = 19

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET. FM10 \* OUTPUT OF AMI/SECAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\gqpmace.dat Output File: g:\beest\GQ\GQpmACE.OUT 11/14/96 07:00:20 Fags - 4

# 1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 137 145 151 152

MAXIMUM NUMBER OF CHRONIC TOXICOLOGICAL ENDPOINTS = 5

REQUIRED TOTAL ARRAY SIZE - 947848 WORDS

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET. FM10 \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\gqpmace.dat Output File: g:\beest\GQ\GQpmaCZ.OUT 11/14/96 07:00:20 Page - 5

#### \*\*\* INPUT SOURCE EMISSION RATES \*\*\*\*

FOR SOURCE # OPERATING HOURS	DRILLING_PIT1 8760.00	SURFACE AREA (m2) =	1.000E+05	DEPOSITION ADJUST.	FACTOR = 2.50000
DOLLITANT NAME	POLLUTANT NUMBER	1-90UR	<del></del>	ANNTAT	DATE
POLLUTANT NAME		(g/s)	(lb/hr)	Annual (g/s)	(lb/yr)
ACETA	1 3 10 13	(g/s) 0.000E+00 0.000E+00 2.572E-07 0.000E+00 1.551E-07 9.277E-09 1.508E-09 2.157F-08	0.000E+00	0.000E+00	0.000E+00
ACROL As	3 70	0.000E+00 2.472E-07	0.000E+00	0.000E+00 1.950E-07	0.000E+00
BENZE	13	0.000E+00	0.000E+00	0.000E+00	1.356E-02 0.000E+00
B●	17	1.551E-07	1.231E-06	2.671E-08	1.857E-03
Cq.	17 22 36 38 70 79 83 85 87	9.277E-09	7.363E-08	7.011E-09	4.874E-04
C± Ca	36 30	1.508E-09 2.157E-08	1.197E-08 1.712E-07	1.268E-09 1.641E-08	8.816E-05 1.141E-03
ECEO	70	4.50/4	0.000E+00	4.0744 00	0.000E+00
ECX	79				0.000E+00
Pb	83	8.970E-08	7.119E-07	4.150E-08	2.885E-03
Min Hig	85	2.362E-07	1.875E-06	1.985E-07	1.380E-02
Ni.	111	0.000E+00 7.864F=09	6 225F=08	5 933F-09	0.000E+00 4.125E-04
NAPTH	111 110 130	7.844E-09 0.000E+00 0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
PAH	130	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PROFL.	774	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Se TOL	137	0.0005+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
XYLEN	151	0.000E+00 0.000E+00 0.000E+00 3.296E-08	0.000E+00	0.000E+00	0.000E+00
Zn	152	3.296E-08	2.616E-07	2.507E-08	1.743E-03
NTXPM	137 145 151 152 998	3.017E-03	2.394E-02	0.000E+00 4.150E-08 1.985E-07 0.000E+00 5.933E-09 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.762E+02
FOR SOURCE #	2 DRILLING PIT				
OPERATING HOURS	= 8760.00 <sup></sup>	SURFACE AREA (m2) =	1.000E+05	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUIANT NAME	POLLUTANT NUMBER  1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151	1-EOUR (g/s)		ANNUAL (z/s)	RATE (lb/yr)
ACETA ACROL	1 2	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00
AS	10	2.572E-07	2.041E-06	1 9506-07	1.356E-02
BENZE	13				0.000E+00
Be	<u>1</u> 7	0.000E+00 1.551E-07 9.277E-09 1.508E-09 2.157E-08 0.000E+00 0.000E+00 8.970E-08 2.362E-07 0.000E+00 7.844E-09 0.000E+00	1.231E-06	0.000E+00 2.671E-08 7.011E-09 1.268E-09 1.641E-08 0.000E+00 0.000E+00 4.150E-08 1.985E-07 0.000E+00 5.933E-09 0.000E+00	1.857E-03 4.874E-04
Cd	22	9.277E-09	7.363E-08	7.011E-09	
Cr Cu	36	1.508E-09	1.19/E-08	1.2685-09	8.816E-05 1.141E-03
ECEO	70	0 000E+00	0.000E+00	0.000E+00	0.000E+00
ECN	79	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pb	83	8.970E-08	7.119E-07	4.150E-08	2.885E-03
Min.	85	2.36ZE-07	1.875E-06	1.985E-07	1.380E-02 0.000E+00
Hg Ni	111	7 844F=09	6 225F-08	5 933F-09	4.125E-04
NAPTH	110	0.000E+00	6.225E-08 0.000E+00 0.000E+00	0.000E+00	0.000E+00
PAH	130	0.000E+00	0.000E+00	0.000E+00	0.000€+00
PROPL	134	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Se TOL	137	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XYLEN	151	0.0002+00	0.0002700	0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00
Zn	151 152	3.2962-08	2.616E-07	2.507E-08	1.743E-03
NTXPM	998	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.296Z-08 3.017E-03	2.394E-02	2.535E-03	1.762E+02
FOR SOURCE #	3 DRILLING PIT	3			
OPERATING HOURS	8760.00	SURFACE AREA (m2) =	3.850E+05	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUTANT NAME	POLLUTANT NUMBER	1-30UR	RATE	ANNUAL	. RATE
		(g/s)		(g/s)	(lb/yr)
ACETA	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACROL.	1 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00
A3	10	9.90 <b>2E-</b> 07	7.859E-06	7.50 <b>9E-07</b>	5.221E-02
BENZE	13 17 22	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Be Cd	17	5.972E-07 3.572E-08	4.740E-06 2.835E-07	1.028E-07 2.599E-08	7.147E-03 1.876E-03
Cz	36	5.808E-09	4.610E-08	4.881E-09	3.393E-04
Cu	38	8.305E-08	6.591E-07	6.319E-08	4.393E-03
ECEC	70	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ECX	7 <del>9</del>	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Fb Ma	83 85	3.454E-07 9.095E-07	2.741E-06 7.218E-06	1.598E-07 7.643E-07	1.111E-02 5.314E-02
	93	7.4334-47	7.2202 93		4.44.44 V4

	87 111 110 130 134 137 145 151 152 998	0.000E+00 3.020E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.269E-07 1.162E-02		0.000E+00 2.284E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.651E-08 9.762E-03	
CERATING BOOKS	- 0700.00 3				
POLLUTANT NAME	POLLUTANT NUMBER	1-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCN Fb Mn Hg N1 NAPTH FAH FROFL Se TOL XYLEN Zn NTXPM	1 30 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 1.215E-06 0.000E+00 7.330E-07 4.383E-08 7.128E-09 1.019E-07 0.000E+00 4.239E-07 1.116E-06 0.000E+00 3.706E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 9.643E-06 0.000E+00 5.817E-06 5.87E-08 8.087E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.236E-06 1.132E-01	(8/4) 0.000E+00 0.000E+00 9.216E-07 0.000E+00 1.262E-07 3.313E-08 5.990E-09 7.755E-08 0.000E+00 0.000E+00 0.000E+00 2.803E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 6.407E-02 0.000E+00 8.774E-03 2.303E-03 4.164E-04 5.392E-03 0.000E+00 0.000E+00 1.363E-02 6.521E-02 0.000E+00 1.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 8.232E-03 8.329E+02
FOR SOURCE # OPERATING HOURS	5 DRILLING_PITS = 8760.00 S	URFACE AREA (m2) =			
POLITITANT NAME	POLLITANT NIMBER			ANNUAL (g/s)	
TOL XYLEN Za NTXFM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152	0.000E+00 3.909E-07 0.000E+00 2.358E-07 1.410E-08 2.293E-09 3.279E-08 0.000E+00 1.364E-07 3.591E-07 0.000E+00	0.000E+00 0.000E+00 3.102E-06 0.000E+00 1.871E-06 1.119E-07 1.820E-08 2.602E-07 0.000E+00 1.083E-06 2.850E-06 0.000E+00 9.460E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 2.965E-07 0.000E+00 4.059E-08 1.066E-08 1.927E-09 2.495E-08 0.000E+00	0.000E+00 0.000E+00 2.061E-02 0.000E+00 2.822E-03 7.411E-04 1.340E-04 1.735E-03 0.000E+00 4.386E-03 2.098E-02 0.000E+00 6.270E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
FOR SOURCE # OPERATING HOURS	6 DRILLING PIT6 - 8760.00 S	SURFACE AREA (m2) =	1.520E+05	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUTANT NAME	POLLUTANT NUMBER	1-HOUR	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
ACETA ACROL AS BENZE BEN Cd Cr Cu HCHO HCN Pb Mn Hg Ni NAPTH PAH	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110	0.000E+00 0.000E+00 3.909E-07 0.000E+00 2.358E-07 1.410E-08 2.293E-09 3.279E-08 0.000E+00 1.364E-07 3.591E-07 0.000E+00 1.192E-08 0.000E+00	0.000E+00 0.000E+00 3.102E-06 0.000E+00 1.871E-06 1.119E-07 1.820E-08 2.602E-07 0.000E+00 0.000E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.000E+00 0.000E+00 2.965E-07 0.000E+00 4.059E-08 1.066E-08 1.927E-09 2.495E-08 0.000E+00 6.308E-08 3.018E-07 0.000E+00 9.018E-09 0.000E+00	0.000E+00 0.000E+00 2.061E-02 0.000E+00 2.822E-03 7.411E-04 1.340E-04 1.735E-03 0.000E+00 0.000E+00 4.386E-03 2.098E-02 0.000E+00 6.270E-04 0.000E+00

PROPL Se TOL XYLEN Zn NTXPM		134 137 145 151 152 998	0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.010E-08 4.586E-03	0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.976E-07 3.640E-02	0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.810E-08 3.854E-03	0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.649E-03 2.679E+02
FOR SOUR	RCE # NG HOURS	7 BLASTING_PIT1 = 8760.00 S	SURFACE AREA (m2) =	1.000E+00	DEPOSITION ADJUST.	FACTOR = 2.50000
POLLUTAL		POLLUTANT NUMBER			ANNUAL (g/s)	/ 1 h /mm \
ACETA ACROL AS BENZE Be Cd Cr HCHO HCN Fb Mm Hg		1 3 10 13 17 22 36 38 70 79 83 85	(8/s)  0.000E+00 0.000E+00 8.630E-04 0.000E+00 1.017E-03 3.017E-05 9.891E-06 7.451E-05 0.000E+00 0.000E+00 5.882E-04 1.549E-03 0.000E+00 5.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 6.849E-03 0.000E+00 8.071E-03 2.394E-04 7.850E-05 5.913E-04 0.000E+00 0.000E+00 4.668E-03 1.229E-02 0.00E+00	0.000E+00 0.000E+00 3.348E-06 0.000E+00 4.623E-07 1.203E-07 2.178E-08 2.817E-07 0.000E+00 0.000E+00 7.140E-07 3.411E-06 0.000E+00	0.000E+00 0.000E+00 2.328E-01 0.000E+00 3.214E-02 8.364E-03 1.514E-03 1.958E-02 0.000E+00 0.000E+00 4.964E-02 2.371E-01 0.000E+00
Ni NAPTH PAH PROPL Se TOL XYLEN Zn NTXPM	RCF #	8 BLASTING PIT2				
OPERATI	NG HOURS	= 8760.00 S	SURFACE AREA (m2) =			
ACETA ACROL As BENZE Be Cd Cr Cu HCHO HCN Fb Mn Hg Ni NAPTH PAH FROPL Se TOL XYLEN Zn NTXPM	RCE #	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 8.630E-04 0.000E+00 1.017E-03 3.017E-05 9.891E-06 7.451E-05 0.000E+00 0.000E+00 5.882E-04 1.549E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 6.849E-03 0.000E+00 8.071E-03 2.394E-04 7.850E-04 0.000E+00 0.000E+00 4.668E-03 1.229E-02 0.000E+00 4.082E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 3.348E-06 0.000E+00 4.623E-07 1.203E-07 2.178E-08 2.817E-07 0.000E+00 7.140E-07 3.411E-06 0.000E+00 1.019E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 4.303E-07 4.356E-02	0.000E+00 0.000E+00 2.32EE-01 0.000E+00 3.214E-02 8.364E-03 1.514E-03 1.958E-02 0.000E+00 0.000E+00 4.964E-02 2.371E-01 0.000E+00 7.084E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
	NG HOURS	= 8760.00 S	SURFACE AREA (m2) =			RATE
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCN Pb Mn Hg Ni NAPTH PAH PAH FROPL Se TOL XYLEN		1 3 10 13 17 22 36 38 70 83 85 87 111 110 130 134 137 145	(g/s)  0.000E+00 0.000E+00 8.630E-04 0.000E+00 1.017E-03 3.017E-05 9.891E-06 7.451E-05 0.000E+00 0.000E+00 5.882E-04 1.549E-03 0.000E+00 5.143E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 6.849E-03 0.000E+00 8.071E-03 2.394E-04 0.000E+00 0.000E+00 0.000E+00 4.668E-03 1.229E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	(g/s)  0.000E+00 0.000E+00 1.289E-05 0.000E+00 1.780E-06 4.633E-07 8.385E-08 1.085E-06 0.000E+00 0.000E+00 0.000E+00 2.749E-06 1.313E-05 0.000E+00 3.925E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 8.962E-01 0.000E+00 1.238E-01 3.221E-02 5.830E-03 7.543E-02 0.000E+00 0.000E+00 1.911E-01 9.128E-01 0.000E+00 2.729E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

Zn NIXPM	152 998	1.134E-04 1.978E+01	9.000E-04 1.570E+02	1.657E-06 1.677E-01	1.152E-01 1.166E+04
FOR SOURCE # 10 OPERATING HOURS =	BLASTING PIT4 8760.00 SU	RFACE AREA (m2) =	1.000E+00	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUTANT NAME H	POLLUTANT NUMBER	1-HOUR	RATE	ANNUAL	RATE
		(g/s)	(lb/hr)		
ACETA ACROL	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
As	10	0.000E+00 8.630E-04	6.849 <b>E</b> -03	1.582E-05	0.000E+00 1.100E+00
BENZE Be	13 17	8.630E-04 0.000E+00 1.017E-03 3.017E-05	0.000E+00 8.071E-03	0.000E+00 2.184E-06	0.000E+00 1.518E-01
Cd	22	3.017E-05	2.394E-04	5.686E-07	3.953E-02
Cr Cu	36 38	9.891E-06 7.4 <b>51E-</b> 05	7.850E-05 5.913E-04	1.029E-07 1.331E-06	7.154E-03 9.254E-02
echo ecn	70 79	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pb	83	5.882E-04	0.000E+00 4.668E-03	0.000E+00 3.374E-06	0.000E+00 2.346E-01
Mon Hig	85 87	1.549E-03 0.000E+00	1.229E-02 0.000E+00	1.611E-05 0.000E+00	1.120E+00 0.000E+00
Ni NAPTH	111	5.143E-05			3.349E-02
PAH	130	0.000E+00 0.000E+00	4.082E-04 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
PROPL Se	134 137	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
TOL	145	0.000E+00			0.000E+00
XYLEN Zn	151	0.000E+00 1.134E-04	0.000E+00 9.000E-04 1.570E+02	0.000E+00 2.033E-06	0.000E+00 1.413E-01
NTXPM	998	1.978E+01	1.570E+02	2.058E-01	1.431E+04
707 0017767 #					
FOR SOURCE # 11 OPERATING HOURS =	BLASTING_PIT5 8760.00 SUF	RFACE AREA (m2) =	1.000E+00	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUTANT NAME P	OLLUTANT NUMBER  1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134	1-HOUR (g/s)		ANNUAL (g/s)	
ACETA	1	0.000E+00	(lb/hr) 0.000E+00 0.000E+00 6.849E-03	0.000E+00	0.000E+00
ACROL As	3 10	0.000E+00 8.630E-04	0.000E+00	0.000E+00 5.089E-06	0.000E+00 3.538E-01
BENZE	13	0.0005.00	0.0002+00	0.0005700	0.000E+00
Be Cd	22	1.017E-03 3.017E-05	8.071E-03 2.394E-04	7.026E-07 1.829E-07	4.885E-02 1.272E-02
Cr Cu	36 38	9.891E-06	7.850E-05	3.310E-08	2.301E-03
ECHO	70	7.451E-05 0.000E+00	5.913E-04 0.000E+00	4.282E-07 0.000E+00	2.977E-02 0.000E+00
ECN Pb	79 83	0.000E+00 5.882E-04	0.000E+00 4.668E-03	0.000E+00 1.085E-06	0.000E+00 7.543E-02
Min Elg	85 87	1.549E-03	1.229E-02	5.184E-06	3.604E-01
Ni_	111	0.000E+00 5.143E-05	0.000E+00 4.082E-04	0.000E+00 1.550E-07	0.000E+00 1.078E-02
NAPTE PAH	110 130	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
PROPL	134	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOL	137 145	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
XYLEN Zn	151 152	0.000E+00 1.134E-04	0.000E+00	0.000E+00	0.000E+00
NIXPM	998	1.134E-04 1.978E+01	9.000E-04 1.570E+02	6.540E-07 6.621E-02	4.547E-02 4.603E+03
FOR SOURCE # 12 OPERATING HOURS =		FACE AREA (m2) =	1.000E+00	DEPOSITION ADJUST	. FACTOR = 2.50000
DOIT 1100 111100 111100 111100					
	OLLUTANT NUMBER	1-HOUR (g/s)	(lb/hr)	ANNUAL (g/s)	(lb/yr)
ACETA ACROL	1 3	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
As BENZE	10 13	8.630E-04	6.849E-03	5.089E-06	3.538E-01
Be	17	0.000E+00 1.017E-03	0.000E+00 8.071E-03	0.000E+00 7.026E-07	0.000E+00 4.885E-02
Cd Cr	22 36	3.017E-05 9.891E-06	2.394E-04 7.850E-05	1.829E-07 3.310E-08	1.272E-02 2.301E-03
Cu HCHO	38	7.451E-05	5.913E-04	4.282E-07	2.977E-02
HCN	70 79	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
Pb Mn	83 85	5.882E-04 1.549E-03	4.668E-03	1.085E-06	7.543E-02
Hg	87	0.000E+00	1.229E-02 0.000E+00	5.184E-06 0.000E+00	3.604E-01 0.000E+00
Ni NAPTE	111 110	5.143E-05 0.000E+00	4.082E-04 0.000E+00	1.550E-07 0.000E+00	1.078E-02 0.000E+00
PAH PROPL	130	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Se	134 137	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
TOL XYLEN	145 151	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
Zn	152	1.134E-04	9.000E-04	0.000E+00 6.540E-07	0.000E+00 4.547E-02
NTXPM	998	1.978E+01	1.570E+02	6.621E-02	4.603E+03

PERALING BOURS =	8760.00 SU	RFACE AREA (m2) =	1.000E+05	DEPOSITION ADJUST.	FACTOR = 2.3000
POLLUTANT NAME PO		1-HOUR	RATE (lb/hr)	ANNUAL 1	RATE (lb/yr)
ACETA ACROL	1 2	0.000E+00	0.000E+00	0.000E+00 0.000E+00 2.875E-06 0.000E+00 3.937E-07 1.033E-07 1.869E-08 2.419E-07 0.000E+00 0.000E+00 6.116E-07 2.926E-06 0.000E+00 8.745E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.695E-07 3.737E-02	0.000E+00
SCRUL S	10	2.144E-06	1.702E-05	2.875E-06	1.999E-01
ENZE	13	0.000E+00	0.000E+00	0.000E+00	0.000E+00
d d	17	2.527E-06 7.494F-08	2.006E-05 5.948F-07	3.93/E-0/ 1.033E-07	2.737E-02 7.182E-03
ir	36	2.457E-08	1.950E-07	1.869E-08	1.299E-03
Cu ICEO	38 70	1.851E-07	1.469E-06	2.419E-07 0.000F+00	1.682E-02 0.000E+00
ICHO ICN	70 79	0.000E+00	0.000E+00	0.000E+00	0.000E+00
<sup>2</sup> b	83	1.461E-06	1.160E-05	6.116E-07	4.252E-02
fin. Ig	85 87	3.848E+06 0.000E+00	3.054E-05 0.000E+00	0.000E+00	0.000E+00
i	111	1.278E-07	1.014E-06	8.745E-08	6.080E-03
NAPTE PAE	110	0.000E+00	0.000E+00	0.000E+00 0.000F+00	0.000E+00 0.000E+00
ROPL	134	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Se	137	0.000E+00	0.000E+00	0.000E+00	0.000E+00
COL CYLEN	145 151	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
in .	152	2.817E-07	2.236E-06	3.695E-07	2.569E-02
ITXPM	998	4.914E-02	3.900E-01	3.737E-02	2.598E+03
FOR SOURCE # 14 OPERATING HOURS =				DEPOSITION ADJUST.	
POLLUTANT NAME PO	LLUTANT NUMBER	1-HOUR	RATE	ANNUAL 3	RATE
		(g/s)	(lb/hr)		(lb/yr)
ACETA ACROL	1 3	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 2.875E-06 0.000E+00	0.000E+00
ickor Is	10	2.144E-06	1.702E-05	2.875E-06	1.999E-01
BENZE	13 17	0.000E+00	0.000E+00 2.006E-05	0.000E+00 3.937E-07	0.000E+00 2.737E-02
Be Ed	22	7.494E-08	5.948E-07	1.033E-07	7.182E-03
r	36	2.457E-08	1.950E-07	1.869E-08 2.419E-07	1.299E-03 1.682E-02
Cu ECHO	38 70	0.000E+00	1.469E-06 0.000E+00	0.000E+00	0.000E+00
ICN	79	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pb In	83 85	1.461E-06 3.848F-06	1.160E-05 3.054E-05	6.116E-07 2.926E-06	4.252E-02 2.034E-01
ig Ig	87	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ni Napte	111	1.278E-07	1.014E-06 0.000E+00	8.745E-08 0.000E+00	6.080E-03 0.000E+00
PAH	130	0.000E+00	0.0007+00	0 000E+00	0.000E+00
PROPL	134	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
Se COL	145	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CYLEN	151	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Zn NTXPM	998	0.000E+00 0.000E+00 2.144E-06 0.000E+00 2.527E-06 7.494E-08 2.457E-08 1.851E-07 0.000E+00 1.461E-06 3.848E-06 0.000E+00 1.278E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	3.900E-01	0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.695E-07 3.737E-02	2.598E+03
FOR SOURCE # 15 OPERATING HOURS =	TRKLOAD PIT3	RFACE AREA (m2) =	3.850E+05	DEPOSITION ADJUST.	FACTOR = 2.500
POLLUTANT NAME PO	OLLUTANT NUMBER	1-HOUR	RATE	ANNUAL	RATE
		(g/s)	(lb/hr)	(g/s)	(lb/yr)
ACETA ACEOT	1 3	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
ACROL As	10	8.253E-06	6.550E-05	1.107E-05	7.696E-01
BENZE	13	0.000E+00	0.000E+00	0.000E+00 1.516E-06	0.000E+00 1.054E-01
Be Cd	17 <b>22</b>	9.728E-06 2.885E-07	7.721E-05 2.290E-06	3.978E-07	2.766E-02
Cr	36	9.460E-08	7.508E-07	7.194E-08	5.002E-03 6.475E-02
Cu HCHO	38 70	7.126E-07 0.000E+00	5.656E-06 0.000E+00	9.314E-07 0.000E+00	0.000E+00
ECN	79	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pb Man	83 85	5.625E-06 1.481E-05	4.464E-05 1.175E-04	2.355E-06 1.127E-05	1.637E-01 7.835E-01
Eg	87	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NÎ NAPTH	111 110	4.919E-07 0.000E+00	3.904E-06 0.000E+00	3.367E-07 0.000E+00	2.341E-02 0.000E+00
NAPIH PAH	130	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PROPL	134	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
Se TOL	137 145	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
XYLEN	151	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Zn NTXPM	152 998	1.085E-06 1.892E-01	8.611E-06 1.502E+00	1.422E-06 1.439E-01	9.886E-02 1.000E+04
FOR SOURCE # 16	TRKLOAD PIT4			DEPOSITION ADJUST.	FACTOR = 2.500

TOLLUTANI NAME IN	OLLUTANT NUMBE	R 1-HOUR (g/s)	RATE (1b/hr)	ANNUAL (g/s)	RATE (lb/yr)	
ACETA	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
ACROL	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
As BENZE	10 13	1.013E-05 0.000E+00	8.040E-05 0.000E+00	1.358E-05 0.000E+00	9.441E-01 0.000E+00	
Be	17	1.194E-05	9.476E-05	1.860E-06	1.293E-01	
Сq	22	3.541E-07	2.810E-06	4.882E-07	3.394E-02	
Cr Cu	36 38	1.161E-07 8.746E-07	9.214E-07 6.941E-06	8.829E-08 1.143E-06	6.138E-03 7.947E-02	
ECHO	70	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
HCN	79 83	0.000E+00	0.000E+00	0.000E+00 2.890E-06	0.000E+00 2.009E-01	
Pb Mn	85	6.904E-06 1.818E-05	5.479E-05 1.443E-04	1.383E-05	9.615E-01	
Hg	87	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Ni NAPTE	111 110	6.037E-07 0.000E+00	4.791E-06 0.000E+00	4.132E-07 0.000E+00	2.873E-02 0.000E+00	
PAB	130	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
PROPL	134	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
Se TOL	137 145	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	
XYLEN	151	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Zn NTXPM	152 998	1.331E-06 2.322E-01	1.056E-05 1.843E+00	1.746E-06 1.766E-01	1.214E-01 1.228E+04	
MININ	330	2.5222 01	1.0451.00	1.7002 01	1.0000.04	
FOR SOURCE # 17	TRKLOAD PIT		1 5005+05	DEPOSITION ADJUST.	FACTOD -	2.50000
OPERATING HOURS =	8760.0 <del>0</del>	SURFACE AREA (m2) =	1.5202705	DEPOSITION ADJUST.		
POLLUTANT NAME PO	OLLUTANT NUMBE		RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)	
ACTTA	1	(g/s)	0.000E+00	0.000E+00	0.000E+00	
ACETA ACROL	3	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	
As	10	3.258E-06	2.586E-05	4.370E-06	3.038E-01	
BENZE Be	13 17	0.000E+00 3.841E-06	0.000E+00 3.048E-05	0.000E+00 5.983E-07	0.000E+00 4.160E-02	
Cd	22	1.139E-07	9.040E-07	1.571E-07	1.092E-02	
Cr	36	3.735E-08	2.964E-07	2.840E-08	1.974E-03	
Cu HCHO	38 70	2.814E-07 0.000E+00	2.233E-06 0.000E+00	3.677E-07 0.000E+00	2.556E-02 0.000E+00	
ECN	79 79	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Pb	83	2.221E-06	1.763E-05	9.297E-07	6.464E-02	
Mon Hig	85 87	5.849E-06 0.000E+00	4.642E-05 0.000E+00	4.448E-06 0.000E+00	3.092E-01 0.000E+00	
Ni Ni	111	1.942E-07	1.541E-06	1.329E-07	9.240E-03	
NAPTH	110	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	
PAH PROPL	130 134	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	
Se	137	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
TOL	145 151	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
XYLEN Zn	152	0.000E+00 4.283E-07	0.000E+00 3.399E-06	5.616E-07	3.904E-02	
NTXPM		7.469E-02	5.928E-01	5.680E-02	3.949E+03	
	998					
FOR SOURCE # 18 OPERATING HOURS =	TRKLOAD PIT		1.520E+05	DEPOSITION ADJUST.	FACTOR =	2.50000
FOR SOURCE # 18 OPERATING HOURS =	TRKLOAD PIT 8760.00	6 SURFACE AREA (m2) =				2.50000
FOR SOURCE # 18	TRKLOAD PIT 8760.00	6 SURFACE AREA (m2) =		DEPOSITION ADJUST ANNUAL (g/s)		2.50000
FOR SOURCE # 18 OPERATING HOURS = POLLUTANT NAME P	TRKLOAD PIT 8760.00 OLLUTANT NUMBE	6 SURFACE AREA (m2) =  R 1-HOUR (g/s) 0.000E+00	RATE (lb/hr) 0.000E+00	ANNUAL (g/s) 0.000E+00	RATE (lb/yr) 0.000E+00	2.50000
FOR SOURCE # 18 OPERATING HOURS =  POLLUTANT NAME P	TRKLOAD PIT 8760.00 OLLUTANT NUMBE	6 SURFACE AREA (m2) =  R 1-HOUR (g/s) 0.000E+00 0.000E+00	RATE (lb/hr) 0.000E+00 0.000E+00	ANNUAL (g/s) 0.000E+00 0.000E+00	RATE (lb/yr) 0.000E+00 0.000E+00	2.50000
FOR SOURCE # 18 OPERATING HOURS = POLLUTANT NAME P	TRKLOAD PIT 8760.00 OLLUTANT NUMBE 1 3 10 13	6 SURFACE AREA (m2) =  R 1-HOUR (g/s) 0.000E+00	RATE (lb/hr) 0.000E+00	ANNUAL (g/s) 0.000E+00	RATE (lb/yr) 0.000E+00	2.50000
FOR SOURCE # 18 OPERATING HOURS =  POLLUTANT NAME P	TRKLOAD PIT 8760.00 OLLUTANT NUMBE 1 3 10 13 17	6 SURFACE AREA (m2) =  R 1-HOUR (g/s)  0.000E+00 0.000E+00 3.258E-06 0.000E+00 3.841E-06	RATE (lb/hr) 0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05	ANNUAL (g/s) 0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07	RATE (lb/yr) 0.000E+00 0.000E+00 3.038E-01 0.000E+00 4.160E-02	2.50000
FOR SOURCE # 18 OPERATING HOURS =  POLLUTANT NAME P  ACETA ACROL AS BENZE Be Cd	TRKLOAD PIT 8760.00 OLLUTANT NUMBE 1 3 10 13 17 22	6 SURFACE AREA (m2) =  R 1-HOUR (g/s)  0.000E+00 0.000E+00 3.258E-06 0.000E+00 3.841E-06 1.139E-07	RATE (1b/hr) 0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05 9.040E-07	ANNUAL (g/s) 0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07 1.571E-07	RATE (lb/yr) 0.000E+00 0.000E+00 3.038E-01 0.000E+00 4.160E-02 1.092E-02	2.50000
FOR SOURCE # 18 OPERATING HOURS =  POLLUTANT NAME P	TRKLOAD FIT 8760.00 OLLUTANT NUMBE 1 3 10 13 17 22 36 38	6 SURFACE AREA (m2) =  R 1-HOUR (g/s)  0.000E+00 0.000E+00 3.258E-06 0.000E+00 3.841E-06	RATE (lb/hr) 0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05	ANNUAL (g/s) 0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07 1.571E-07 2.840E-08 3.677E-07	RATE (lb/yr) 0.000E+00 0.000E+00 3.03E-01 0.000E+00 4.160E-02 1.092E-02 1.974E-03 2.556E-02	2.50000
FOR SOURCE # 18 OPERATING HOURS =  POLLUTANT NAME P	TRKLOAD PIT 8760.00 	6 SURFACE AREA (m2) =  R 1-HOUR (g/s)  0.000E+00 0.000E+00 3.258E-06 0.000E+00 3.841E-06 1.139E-07 3.735E-08 2.814E-07 0.000E+00	RATE (1b/hr) 0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05 9.040E-07 2.964E-07 2.233E-06 0.000E+00	ANNUAL (g/s) 0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07 1.571E-07 2.840E-08 3.677E-07 0.000E+00	RATE (lb/yr) 0.000E+00 0.000E+00 3.038E-01 0.000E+00 4.160E-02 1.092E-02 1.974E-03 2.556E-02 0.000E+00	2.50000
FOR SOURCE # 18 OPERATING HOURS =  POLLUTANT NAME P	TRKLOAD PIT 8760.00 OLLUTANT NUMBE 1 3 10 13 17 22 36 38 70 79	6 SURFACE AREA (m2) =  R	RATE (1b/hr) 0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05 9.040E-07 2.964E-07 2.233E-06 0.000E+00 0.000E+00	ANNUAL (g/s) 0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07 1.571E-07 2.840E-08 3.677E-07 0.000E+00	RATE (lb/yr) 0.000E+00 0.000E+00 3.038E-01 0.000E+00 4.160E-02 1.092E-02 1.974E-03 2.556E-02 0.000E+00	2.50000
FOR SOURCE # 18 OPERATING HOURS =  POLLUTANT NAME P  ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCHO HCHO HCHO HCHO HCHO HCHO H	TRKLOAD PIT 8760.00 	6 SURFACE AREA (m2) =  R 1-HOUR (g/s)  0.000E+00 0.000E+00 3.258E-06 0.000E+00 3.841E-06 1.139E-07 3.735E-08 2.814E-07 0.000E+00 0.000E+00 0.2221E-06 5.849E-06	RATE (1b/hr) 0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05 9.040E-07 2.964E-07 2.233E-06 0.000E+00 0.000E+00	ANNUAL (g/s)  0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07 1.571E-07 2.840E-08 3.677E-07 0.000E+00 0.000E+00 9.297E-07 4.448E-06	RATE (lb/yr) 0.000E+00 0.000E+00 3.038E-01 0.000E+00 4.160E-02 1.092E-02 1.974E-03 2.556E-02 0.000E+00 0.000E+00 6.464E-02 3.092E-01	2.50000
FOR SOURCE # 18 OPERATING HOURS =  POLLUTANT NAME P	TRKLOAD PIT 8760.00 OLLUTANT NUMBE 1 3 10 13 17 22 36 38 70 79 83 85 87	6 SURFACE AREA (m2) =  R 1-HOUR (g/s)  0.000E+00 0.000E+00 3.258E-06 0.000E+00 3.841E-06 1.139E-07 3.735E-08 2.814E-07 0.000E+00 0.000E+00 0.221E-06 5.849E-06 0.000E+00	RATE (1b/hr) 0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05 9.040E-07 2.964E-07 2.233E-06 0.000E+00 1.763E-05 4.642E-05 0.000E+00	ANNUAL (8/s)  0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07 1.571E-07 2.840E-08 3.677E-07 0.000E+00 9.297E-07 4.448E-06 0.000E+00	RATE (lb/yr) 0.000E+00 0.000E+00 3.038E-01 0.000E+00 4.160E-02 1.092E-02 1.974E-03 2.556E-02 0.000E+00 6.464E-02 3.092E-01 0.000E+00	2.50000
FOR SOURCE # 18 OPERATING HOURS =  POLLUTANT NAME P  ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCHO HCHO HCHO HCHO HCHO HCHO H	TRKLOAD PIT 8760.00 	6 SURFACE AREA (m2) =  R 1-HOUR (g/s)  0.000E+00 0.000E+00 3.258E-06 0.000E+00 3.841E-06 1.139E-07 3.735E-08 2.814E-07 0.000E+00 0.000E+00 0.2221E-06 5.849E-06	RATE (1b/hr) 0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05 9.040E-07 2.964E-07 2.233E-06 0.000E+00 0.000E+00	ANNUAL (g/s)  0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07 1.571E-07 2.840E-08 3.677E-07 0.000E+00 0.000E+00 9.297E-07 4.448E-06	RATE (lb/yr) 0.000E+00 0.000E+00 3.038E-01 0.000E+00 4.160E-02 1.092E-02 1.974E-03 2.556E-02 0.000E+00 0.000E+00 6.464E-02 3.092E-01	2.50000
FOR SOURCE # 18 OPERATING HOURS =  POLLUTANT NAME P	TRKLOAD PIT 8760.00 OLLUTANT NUMBE 1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130	6 SURFACE AREA (m2) =  R 1-HOUR (g/s)  0.000E+00 0.000E+00 3.258E-06 0.000E+00 3.841E-06 1.139E-07 3.735E-08 2.814E-07 0.000E+00 0.000E+00 0.2221E-06 5.849E-06 0.000E+00 1.942E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00	RATE (1b/hr) 0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05 9.040E-07 2.964E-07 2.233E-06 0.000E+00 1.763E-05 4.642E-05 0.000E+00 1.541E-06 0.000E+00 0.000E+00	ANNUAL (8/s)  0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07 1.571E-07 2.840E-08 3.677E-07 0.000E+00 9.297E-07 4.448E-06 0.000E+00 1.329E-07 0.000E+00 0.000E+00	RATE (lb/yr) 0.000E+00 0.000E+00 3.038E-01 0.000E+00 4.160E-02 1.092E-02 1.974E-03 2.556E-02 0.000E+00 6.464E-02 3.092E-01 0.000E+00 9.240E-03 0.000E+00	2.50000
FOR SOURCE # 18 OPERATING HOURS =  POLLUTANT NAME PAH PROPL	TRKLOAD PIT 8760.00 	6 SURFACE AREA (m2) =  R	RATE (1b/hr)  0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05 9.040E-07 2.964E-07 2.233E-06 0.000E+00 0.000E+00 1.763E-05 4.642E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	ANNUAL (g/s)  0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07 1.571E-07 2.840E-08 3.677E-07 0.000E+00 0.000E+00 9.297E-07 4.448E-06 0.000E+00 1.329E-07 0.000E+00 0.000E+00	RATE (lb/yr) 0.000E+00 0.000E+00 3.038E-01 0.000E+00 4.160E-02 1.974E-03 2.556E-02 0.000E+00 0.000E+00 0.464E-02 3.092E-01 0.000E+00 0.240E-03 0.000E+00 0.000E+00	2.50000
FOR SOURCE # 18 OPERATING HOURS =  POLLUTANT NAME P	TRKLOAD PIT 8760.00	6 SURFACE AREA (m2) =  1-HOUR (g/s)  0.000E+00 0.000E+00 3.258E-06 0.000E+00 3.841E-06 1.139E-07 0.000E+00 0.000E+00 0.000E+00 0.2221E-06 5.849E-06 0.000E+00 1.942E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	RATE (1b/hr) 0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05 9.040E-07 2.964E-07 2.964E-07 2.233E-06 0.000E+00 0.000E+00 1.763E-05 4.642E-05 0.000E+00 1.541E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	ANNUAL (8/s)  0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07 1.571E-07 2.840E-08 3.677E-07 0.000E+00 0.000E+00 9.297E-07 4.448E-06 0.000E+00 1.329E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	RATE (lb/yr) 0.000E+00 0.000E+00 3.038E-01 0.000E+00 4.160E-02 1.092E-02 1.974E-03 2.556E-02 0.000E+00 0.000E+00 0.464E-02 3.092E-01 0.000E+00 9.240E-03 0.000E+00 0.000E+00 0.000E+00	2.50000
FOR SOURCE # 18 OPERATING HOURS =  POLLUTANT NAME P	TRKLOAD PIT 8760.00 	6 SURFACE AREA (m2) =  R	RATE (lb/hr)  0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05 9.040E-07 2.964E-07 2.233E-06 0.000E+00 0.000E+00 1.763E-05 4.642E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	ANNUAL (g/s)  0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07 1.571E-07 2.840E-08 3.677E-07 0.000E+00 0.000E+00 9.297E-07 4.448E-06 0.000E+00 1.329E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	RATE (lb/yr) 0.000E+00 0.000E+00 3.038E-01 0.000E+00 4.160E-02 1.974E-03 2.556E-02 0.000E+00 0.000E+00 0.464E-02 3.092E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	2.50000
FOR SOURCE # 18 OPERATING HOURS =  POLLUTANT NAME P	TRKLOAD PIT 8760.00	6 SURFACE AREA (m2) =  1-HOUR (g/s)  0.000E+00 0.000E+00 3.258E-06 0.000E+00 3.841E-06 1.139E-07 0.000E+00 0.000E+00 0.000E+00 0.2221E-06 5.849E-06 0.000E+00 1.942E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	RATE (1b/hr) 0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05 9.040E-07 2.964E-07 2.964E-07 2.233E-06 0.000E+00 0.000E+00 1.763E-05 4.642E-05 0.000E+00 1.541E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	ANNUAL (8/s)  0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07 1.571E-07 2.840E-08 3.677E-07 0.000E+00 0.000E+00 9.297E-07 4.448E-06 0.000E+00 1.329E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	RATE (lb/yr) 0.000E+00 0.000E+00 3.038E-01 0.000E+00 4.160E-02 1.092E-02 1.974E-03 2.556E-02 0.000E+00 0.000E+00 0.464E-02 3.092E-01 0.000E+00 9.240E-03 0.000E+00 0.000E+00 0.000E+00	2.50000
FOR SOURCE # 18 OPERATING HOURS = POLLUTANT NAME PROPIL SE TOL XYLEN Zn NTXPM	TRKLOAD PIT 8760.00 	6 SURFACE AREA (m2) =  R	RATE (1b/hr)  0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05 9.040E-07 2.964E-07 2.233E-06 0.000E+00 0.000E+00 1.763E-05 4.642E-05 0.000E+00 1.541E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	ANNUAL (g/s)  0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07 1.571E-07 2.840E-08 3.677E-07 0.000E+00 0.000E+00 9.297E-07 4.448E-06 0.000E+00 1.329E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	RATE (lb/yr) 0.000E+00 0.000E+00 3.038E-01 0.000E+00 4.160E-02 1.092E-02 1.974E-03 2.556E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	2.50000
FOR SOURCE # 18 OPERATING HOURS =  POLLUTANT NAME P	TRKLOAD PIT 8760.00 8760.00  OLLUTANT NUMBE  1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998  HAUL 1	6 SURFACE AREA (m2) =  1-HOUR (g/s)  0.000E+00 0.000E+00 3.258E-06 0.000E+00 3.841E-06 1.139E-07 0.000E+00 0.00E+00 0.00E+00 0.00E+00 0.2221E-06 5.849E-06 0.000E+00 1.942E-07 0.000E+00 0.00E+00 7.469E-02	RATE (lb/hr) 0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05 9.040E-07 2.964E-07 2.233E-06 0.000E+00 0.000E+00 1.763E-05 4.642E-05 0.000E+00	ANNUAL (8/s)  0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07 1.571E-07 2.840E-08 3.677E-07 0.000E+00 0.000E+00 9.297E-07 4.448E-06 0.000E+00 1.329E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.616E-07 5.680E-02	RATE (lb/yr) 0.000E+00 0.000E+00 3.038E-01 0.000E+00 4.160E-02 1.092E-02 1.092E-02 0.000E+00	
FOR SOURCE # 18 OPERATING HOURS = POLLUTANT NAME PROPIL SE TOL XYLEN Zn NTXPM	TRKLOAD PIT 8760.00 8760.00  OLLUTANT NUMBE  1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998  HAUL 1	6 SURFACE AREA (m2) =  R	RATE (1b/hr) 0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05 9.040E-07 2.964E-07 2.233E-06 0.000E+00 0.000E+00 1.763E-05 4.642E-05 0.000E+00	ANNUAL (8/s)  0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07 1.571E-07 2.840E-08 3.677E-07 0.000E+00 0.000E+00 9.297E-07 4.448E-06 0.000E+00 1.329E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.616E-07 5.680E-02	RATE (lb/yr) 0.000E+00 0.000E+00 3.038E-01 0.000E+00 4.160E-02 1.092E-02 1.092E-02 0.000E+00	
FOR SOURCE # 18 OPERATING HOURS =  POLLUTANT NAME P	TRKLOAD PIT 8760.00  OLLUTANT NUMBE  1 3 10 13 17 22 36 38 85 87 111 110 130 134 137 145 151 152 998  HAUL 1 8760.00	6 SURFACE AREA (m2) =  R	RATE (1b/hr)  0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05 9.040E-07 2.964E-07 2.933E-06 0.000E+00 0.000E+00 1.763E-05 4.642E-05 0.000E+00	ANNUAL (g/s)  0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07 1.571E-07 2.840E-08 3.677E-07 0.000E+00 0.000E+00 9.297E-07 4.448E-06 0.000E+00 1.329E-07 0.000E+00	RATE (lb/yr) 0.000E+00 0.000E+00 3.038E-01 0.000E+00 4.160E-02 1.974E-03 2.556E-02 0.000E+00	
FOR SOURCE # 18 OPERATING HOURS =  POLLUTANT NAME P	TRKLOAD PIT 8760.00  OLLUTANT NUMBE  1 3 10 13 17 22 36 38 85 87 111 110 130 134 137 145 151 152 998  HAUL 1 8760.00	6 SURFACE AREA (m2) =  R	RATE (1b/hr) 0.000E+00 0.000E+00 2.586E-05 0.000E+00 3.048E-05 9.040E-07 2.964E-07 2.233E-06 0.000E+00	ANNUAL (g/s)  0.000E+00 0.000E+00 4.370E-06 0.000E+00 5.983E-07 1.571E-07 2.840E-08 3.677E-07 0.000E+00 9.297E-07 4.448E-06 0.000E+00 1.329E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.666E-07 5.680E-02	RATE (lb/yr) 0.000E+00 0.000E+00 3.038E-01 0.000E+00 4.160E-02 1.092E-02 1.092E-02 0.000E+00	

ACROL AS BENZE Be Cd Cr Cu HCHO HCN Pb Mn H8 Ni NAPTH PAH PROPL Se TOL XYLEN Zn NTXPM	3 10 13 17 22 36 38 70 83 85 87 111 130 134 137 145 152 998	0.000E+00 2.489E-06 0.000E+00 9.123E-09 8.977E-08 1.460E-08 2.087E-07 0.000E+00 3.803E-07 2.286E-06 0.000E+00 6.642E-08 0.000E+00	0.000E+00 1.975E-05 0.000E+00 7.240E-08 7.125E-07 1.159E-07 1.656E-06 0.000E+00 3.018E-06 1.814E-05 0.000E+00 5.271E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.532E-06 2.317E-01	0.000E+00 1.439E-06 0.000E+00 5.274E-09 5.190E-08 8.438E-09 1.207E-07 0.000E+00 0.000E+00 2.198E-07 1.321E-06 0.000E+00 3.839E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 1.000E+01 0.000E+00 3.667E-04 3.608E-03 5.866E-04 8.392E-03 0.000E+00 1.528E-02 9.184E-02 0.000E+00 2.669E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.282E-02 1.174E+03
TOD COUNCE # 20	TIATE 2	SURFACE AREA (m2) =			
POLLUTANT NAME PO		1-HOUR 1		ANNUAL (g/s)	/12 /\
		(g/s)  0.000E+00 0.000E+00 2.489E-06 0.000E+00 9.123E-09 8.977E-08 1.460E-08 2.087E-07 0.000E+00 0.000E+00 3.803E-07 2.286E-06 0.000E+00			
FOR SOURCE # 21 OPERATING HOURS =	HAUL 3 8760.00	SURFACE AREA (m2) =			
POLLUTANT NAME P	OLLUTANT NUMBER			ANNUAL (g/s)	
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCHO HCN Pb Mn Hg Ni HR NAPTH PAH FROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 152 998	0.000E+00 0.000E+00 9.582E-06 0.000E+00 3.512E-08 3.456E-07 5.620E-08 8.037E-07 0.000E+00 0.000E+00 1.464E-06 8.801E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.228E-06 1.124E-01	0.000E+00 0.000E+00 7.605E-05 0.000E+00 2.787E-07 2.743E-06 4.460E-07 6.379E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 5.539E-06 0.000E+00 2.030E-08 1.998E-07 3.249E-08 4.646E-07 0.000E+00 0.000E+00 0.000E+00 1.478E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 3.851E-01 0.000E+00 1.411E-03 1.389E-02 2.259E-03 3.230E-02 0.000E+00 0.000E+00 5.884E-02 3.537E-01 0.000E+00 1.028E-02 0.000E+00
FOR SOURCE # 22 OPERATING HOURS =	HAUL 4 8760.00	SURFACE AREA (m2) =	1.181E+05	DEPOSITION ADJUST	. FACTOR = 2.50000
POLIJITANT NAME I		1-HOUR	RATE	ANNUAL	RATE
	POLLUTANT NUMBER	(g/s)	(lb/hr)	(g/s)	(lb/yr) 0.000E+00

Page 9

		4.242E-07 6.897E-08 9.863E-07 0.000E+00 0.000E+00 1.797E-06 1.080E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.507E-06 1.379E-01	3.367E-06 5.474E-07 7.828E-06 0.000E+00 0.000E+00 1.426E-05 8.571E-05 0.000E+00 0.490E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.196E-05 1.094E+00	2.452E-07 3.987E-08 5.702E-07 0.000E+00 0.000E+00 1.039E-06 6.244E-06 0.000E+00 1.814E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.705E-02 2.772E-03 3.964E-02 0.000E+00 7.224E-02 4.341E-01 0.000E+00 1.261E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
FOR SOURCE # 23 OPERATING HOURS =	HAUL 5 8760.00 SURI	FACE AREA (m2) =	3.800E+04	DEPOSITION ADJUST.	FACTOR = 2.50000
POLLUTANT NAME POLL		1-HOUR 1 (g/s)	(1h/h+)	ANNUAL F	(1h/wr)
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCN Fb MA HS NI NAPTH PAH FROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151	4.040E-U/	0.000E+00 0.000E+00 3.002E-05 0.000E+00 1.101E-07 1.083E-06 1.761E-07 2.518E-06 0.000E+00 0.000E+00 4.587E-05 0.000E+00 8.016E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.848E-06 3.522E-01	0.000E+00 0.000E+00 2.187E-06 0.000E+00 8.016E-09 7.888E-08 1.283E-08 1.834E-07 0.000E+00 3.341E-07 2.009E-06 0.000E+00 5.836E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 1.520E-01 0.000E+00 5.573E-04 5.484E-03 8.920E-04 1.275E-02 0.000E+00 0.000E+00 2.323E-02 1.397E-01 0.000E+00 4.057E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.949E-02 1.783E+03
FOR SOURCE # 24 OPERATING HOURS =	HAUL 6				
	8760.00 SURI	FACE AREA (m2) =	3.800E+04	DEPOSITION ADJUST.	FACTOR = 2.50000
POLLUTANT NAME POLL	UTANT NUMBER	1-HOUR (g/s)	RATE (lb/br)	ANNUAL I	
	UTANT NUMBER	1-HOUR (g/s)	RATE (1b/hr) 0.000E+00 0.000E+00	ANNUAL I (g/s) 0.000E+00 0.000E+00 2.187E-06 0.000E+00	
POLLUTANT NAME POLL  ACETA ACROL AS BENZE Be Cd Cr Cu ECHO HCHO HCHO HCHO HCHO HCHO HCHO HCHO	1 3 10 13 17 222 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	1-HOUR : (8/s)  0.000E+00 0.000E+00 3.783E-06 0.000E+00 1.387E-08 1.365E-07 2.219E-08 3.173E-07 0.000E+00	0.000E+00 0.000E+00 0.000E+00 1.000E+00 1.101E-07 1.083E-06 1.761E-07 2.518E-06 0.000E+00 4.587E-06 2.758E-05 0.000E+00 8.016E-07 0.000E+00	ANNUAL I (g/s)  0.000E+00 0.000E+00 2.187E-06 0.000E+00 8.016E-09 7.888E-08 1.283E-08 1.834E-07 0.000E+00 0.000E+00 0.000E+00 5.836E-08 0.000E+00	(1b/yr)  0.000E+00 0.000E+00 1.520E-01 0.000E+00 5.573E-04 5.484E-03 8.920E-04 1.275E-02 0.000E+00 0.000E+00 2.323E-02 1.397E-01 0.000E+00 4.057E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
POLLUTANT NAME POLL  ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCHO HCN Fb Mn Hg Ni NAPTH PAH PROFL Se TOL XYLEN Zn NTXFM	1 3 10 13 17 222 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998  BAGHOUSE 1 8760.00 SUR	1-HOUR : (8/s)  0.000E+00 0.000E+00 3.783E-06 0.000E+00 1.387E-08 1.365E-07 2.219E-08 3.173E-07 0.000E+00 0.000E+00 0.000E+00 1.010E-07 0.000E+00 4.848E-07 4.438E-02	(1b/hr)  0.000E+00 0.000E+00 3.002E-05 0.000E+00 1.101E-07 1.083E-06 1.761E-07 2.518E-06 0.000E+00 4.587E-05 0.000E+00 4.587E-05 0.000E+00	ANNUAL I (g/s)  0.000E+00 0.000E+00 2.187E-06 0.000E+00 8.016E-09 7.888E-08 1.283E-08 1.283E-07 0.000E+00 0.000E+00 0.000E+00 5.836E-08 0.000E+00	(1b/yr)  0.000E+00 0.000E+00 1.520E-01 0.000E+00 5.573E-04 5.484E-03 8.920E-04 1.275E-02 0.000E+00 0.000E+00 2.323E-02 1.397E-01 0.000E+00 4.057E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.1949E-02 1.783E+03

	FOR SOURCE # 26 OPERATING HOURS =		0.000E+00 2.684E-06 7.067E-06 0.000E+00 4.693E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.75E-07 1.805E-01	2.130E-05 5.609E-05 5.609E-05 0.000E+00 3.725E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 4.107E-06 1.433E+00		2.840E-01 7.481E-01 0.000E+00 2.483E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.476E-02 9.553E+03
	POLLUTANT NAME F	OLLUTANT NUMBER	1-HOUR (g/s)		ANNUAL (g/s)	RATE (lb/yr)
	ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCHO HCHO HCHO HCHO HCHO HZ MMM Hg Ni NAPTH PAH FROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	4.663E-08 3.513E-07 0.000E+00 0.000E+00 2.773E-06 7.303E-06 0.000E+00 2.425E-07 0.000E+00 0.000E+00	0.000E+00 3.229E-05 0.000E+00 3.806E-05 1.129E-06 3.701E-07 2.788E-06 0.000E+00 0.000E+00 2.201E-05 5.796E-05 0.000E+00 1.925E-06 0.000E+00	0.000±+00 4.837E-06 0.000E+00 1.773E-08 1.7745E-07 2.837E-08 4.057E-07 0.000E+00 7.390E-07 4.443E-06 0.000E+00 1.291E-07 0.000E+00 0.000E+00 0.000E+00	0.000E+00 3.363E-01 0.000E+00 1.233E-03 1.213E-02 1.972E-03 2.821E-02 0.000E+00 0.000E+00 5.138E-02 3.089E-01 0.000E+00 8.976E-03 0.000E+00 0.000E+00
	FOR SOURCE # 27 OPERATING HOURS =		SURFACE AREA (m2) =	4.331E+05	DEPOSITION ADJUST	. FACTOR = 2.50000
	POLLUTANT NAME F	POLLUTANT NUMBER	1-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
	ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCHO HCH HS NI HS NI HS NI FAH FROPL Se LXYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 8.173E-06 0.000E+00 9.633E-06 2.857E-07 9.367E-08 7.057E-07 0.000E+00 0.000E+00 5.570E-06 1.467E-05 0.000E+00 4.871E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.074E-06 1.041E-01	0.000E+00 0.000E+00 6.487E-05 0.000E+00 7.645E-05 2.267E-06 7.444E-07 5.601E-06 0.000E+00 4.421E-05 1.164E-04 0.000E+00 3.866E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 9.716E-06 0.000E+00 3.562E-08 3.502E-07 5.699E-08 8.149E-07 0.000E+00 0.000E+00 1.485E-06 8.924E-06 0.000E+00 2.593E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.245E-06 1.140E-01	0.000E+00 0.000E+00 6.755E-01 0.000E+00 2.476E-03 2.437E-02 3.962E-03 5.665E-02 0.000E+00 0.000E+00 1.032E-01 6.204E-01 0.000E+00 1.803E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 8.656E-02 7.926E+03
	FOR SOURCE # 28 OPERATING HOURS =		SURFACE AREA (m2) =	1.371E+05	DEPOSITION ADJUST	. FACTOR = 2.50000
	POLLUTANT NAME I	POLLUTANT NUMBER	1-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
)	ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCN Pb Mn Hg	1 3 10 13 17 22 36 38 70 79 83 85	0.000E+00 0.000E+00 2.587E-06 0.000E+00 3.049E-06 9.043E-08 2.965E-08 2.234E-07 0.000E+00 0.000E+00 1.763E-06 4.643E-06 0.000E+00	0.000E+00 0.000E+00 2.053E-05 0.000E+00 2.420E-05 7.177E-07 2.353E-07 1.773E-06 0.000E+00 0.000E+00 1.399E-05 3.685E-05 0.000E+00	0.000E+00 0.000E+00 3.076E-06 0.000E+00 1.127E-08 1.109E-07 1.804E-08 2.580E-07 0.000E+00 4.699E-07 2.825E-06 0.000E+00	0.000E+00 0.000E+00 2.139E-01 0.000E+00 7.835E-04 7.710E-03 1.254E-03 1.794E-02 0.000E+00 0.000E+00 3.267E-02 1.964E-01 0.000E+00

		1.542E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.400E-07 3.294E-02	1.224E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.698E-06 2.614E-01	8.208E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.941E-07 3.608E-02	5.707E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.740E-02 2.508E+03
FOR SOURCE # 29 OPERATING HOURS =	8760.00 S	URFACE AREA (m2) =			
POLLUTANT NAME PO			1-HOUR RATE (lb/hr)		
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCHO HCN Pb Mn Hg Ni NAPTH PAH PROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 4.846E-06 0.000E+00 5.712E-06 1.694E-07 5.555E-08 4.185E-07 0.000E+00 0.000E+00 0.000E+00 2.889E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 3.846E-05 0.000E+00 4.533E-05 1.344E-06 4.409E-07 3.321E-06 0.000E+00 0.000E+00 0.00E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 4.898E-01	0.000E+00 0.000E+00 5.762E-06 0.000E+00 2.112E-08 2.078E-07 3.379E-08 4.833E-07 0.000E+00 0.000E+00 0.000E+00 1.538E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 7.384E-07 6.759E-02	0.000E+00 0.000E+00 4.006E-01 0.000E+00 1.468E-03 1.445E-02 2.349E-03 3.360E-02 0.000E+00 0.000E+00 0.000E+00 1.069E-02 0.000E+00
FOR SOURCE # 30 OPERATING HOURS =	TRU-WST 5 8760.00 S	URFACE AREA (m2) =	5.041E+05	DEPOSITION ADJUST	FACTOR = 2.50000
POLLUTANT NAME PO		1-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
Mn Hg Ni NAPTE PAE PROPL Se TOL XYLEN Zn NTXPM	1110 130 134 137 145 151 152 998	3.325E-07 1.090E-07 8.213E-07 0.000E+00 0.000E+00 6.483E-06 1.707E-05 0.000E+00 5.669E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 7.549E-05 0.000E+00 8.897E-05 2.639E-06 6.518E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	(g/s)  0.000E+00 0.000E+00 1.131E-05 0.000E+00 4.146E-08 4.079E-07 6.633E-08 9.485E-07 0.000E+00 0.000E+00 1.728E-06 1.039E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00
FOR SOURCE # 31 OPERATING HOURS =	DOZING WASTE 1 8760.00 S	URFACE AREA (m2) =	2.156E+05	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUTANT NAME PO	LLUTANT NUMBER	1-HOUR	1-HOUR RATE (g/s) (lb/hr)		RATE (lb/yr)
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCN Pb Mn Hg Ni NAPTE PAH PROPL	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134	0.000E+00 0.000E+00 2.827E-06 0.000E+00 1.036E-08 1.020E-07 1.658E-08 2.371E-07 0.000E+00 0.000E+00 4.319E-07 2.596E-06 0.000E+00 7.543E-08 0.000E+00 0.000E+00	0.000E+00 0.000E+00 2.244E-05 0.000E+00 8.222E-08 8.095E-07 1.316E-07 1.882E-06 0.000E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.000E+00 0.000E+00 3.227E-07 0.000E+00 1.183E-09 1.164E-08 1.893E-09 2.706E-08 0.000E+00 0.000E+00 4.930E-08 2.964E-07 0.000E+00 8.611E-09 0.000E+00 0.000E+00	0.000E+00 0.000E+00 2.244E-02 0.000E+00 8.225E-05 8.093E-04 1.316E-04 1.881E-03 0.000E+00 0.000E+00 3.428E-03 2.061E-02 0.000E+00 5.987E-04 0.000E+00 0.000E+00

:	Se TOL XYLEN Zn NTXPM	137 145 151 152 998	0.000E+00 0.000E+00 0.000E+00 3.622E-07 3.316E-02	0.000E+00 0.000E+00 0.000E+00 2.875E-06 2.632E-01	0.000E+00 0.000E+00 0.000E+00 4.135E-08 3.785E-03	0.000E+00 0.000E+00 0.000E+00 2.875E-03 2.631E+02
	FOR SOURCE # 32 OPERATING HOURS =	DOZING WASTE 2 8760.00 SURI	FACE AREA (m2) =	4.331E+05	DEPOSITION ADJUST.	FACTOR = 2.50000
	POLLUTANT NAME POL			RATE (lb/hr)	ANNUAL ]	RATE (lb/yr)
	ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCHO HCN Fb Mn Hg Ni Hg FROPI Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152	0.00E+00 0.00E+00 5.678E-06 0.000E+00 2.081E-08 2.048E-07 3.330E-08 4.762E-07 0.00E+00 0.00E+00 0.00E+00 1.515E-06 0.000E+00 1.515E-07 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	1.652E-07 1.625E-06 2.643E-07 3.779E-06 0.000E+00 0.000E+00 6.885E-06 4.139E-05 0.000E+00 1.202E-06	9.903E-08 5.953E-07 0.000E+00 1.730E-08 0.000E+00	0.000E+00 0.000E+00 4.507E-02 0.000E+00 1.652E-04 1.625E-03 2.643E-04 3.779E-03 0.000E+00 0.00E+00 0.00E+00 1.203E-03 1.203E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
	FOR SOURCE # 33 OPERATING HOURS =	8760.00 SUR	FACE AREA (m2) =		DEPOSITION ADJUST.	FACTOR = 2.50000
	POLLUTANT NAME PO	LLUTANT NUMBER	1-HOUR		ANNUAL (g/s)	RATE (lb/yr)
N.	ACETA ACROL AS BENZE Be Cd Cr HCHO HCHO HCN PD Mn Hg Ni NAPTH PAH PROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 1.797E-06 0.000E+00 6.588E-09 6.483E-08 1.054E-08 1.507E-07 0.000E+00 0.000E+00 2.746E-07 1.651E-06 0.000E+00 4.796E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 1.426E-05 0.000E+00 5.229E-08 5.145E-07 8.365E-08 1.196E-06 0.000E+00 0.000E+00 0.179E-06 1.310E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 2.052E-07 0.000E+00 7.521E-10 7.400E-09 1.203E-09 1.721E-08 0.000E+00 3.135E-08 1.884E-07 0.000E+00 5.475E-09 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 1.427E-02 0.000E+00 5.229E-05 5.145E-04 8.364E-05 1.197E-03 0.000E+00 0.000E+00 2.180E-03 1.310E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
	FOR SOURCE # 34 OPERATING HOURS =		RFACE AREA (m2) =	2.569E+05	DEPOSITION ADJUST	FACTOR = 2.50000
	POLLUTANT NAME PO	LLUTANT NUMBER	1-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
)	ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCN Pb Mh Hg Ni NAPTH PAH PROPL Se TOL XYLEN Zn	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151	0.000E+00 0.000E+00 3.367E-06 0.000E+00 1.234E-08 1.215E-07 1.975E-08 2.824E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 2.672E-05 0.000E+00 9.794E-08 9.643E-07 1.567E-07 2.241E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.131E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 3.844E-07 0.000E+00 1.409E-09 1.386E-08 2.254E-09 3.224E-08 0.000E+00 0.000E+00 5.873E-08 3.530E-07 0.000E+00 1.026E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 2.672E-02 0.000E+00 9.796E-05 9.636E-04 1.567E-04 2.241E-03 0.000E+00 0.000E+00 4.083E-03 2.454E-02 0.000E+00 7.133E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

NTXPM 998 3.950E-02 3.135E-01 4.509E-03 3.135E+02

FOR SOURCE # 35 DOZING WASTE 5
OPERATING HOURS = 8760.00 SURFACE AREA (m2) = 5.041E+05 DEPOSITION ADJUST. FACTOR = 2.50000 1-BOUR RATE
(g/s) (lb/hr) (g/s) (lb/yr)

0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
6.609E-06 5.245E-05 7.544E-07 5.245E-02
0.000E+00 0.000E+00 0.000E+00 0.000E+00
2.423E-08 1.923E-07 2.765E-09 1.922E-04
2.384E-07 1.892E-06 2.721E-08 1.892E-03
3.876E-08 3.076E-07 4.425E-09 3.076E-04
5.543E-07 4.399E-06 6.327E-08 4.399E-03
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.00E-00 0.000E+00 0.000E+00 0.000E+00
1.010E-06 8.016E-06 1.153E-07 8.016E-03
6.070E-06 4.817E-05 6.929E-07 4.817E-02
0.000E+00 0.000E+00 0.000E+00 0.000E+00
1.764E-07 1.400E-06 2.013E-08 1.400E-03
0.000E+00 0.000E+00 0.000E+00 0.000E+00
POLLUTANT NAME POLLUTANT NUMBER ANNUAL RATE 1-HOUR RATE ACETA ACROL As BENZE 10 13 17 22 36 38 70 79 83 Be Čī Cu HCHO HCN Pb 85 87 111 Mn Hg Ni 110 130 134 137 NAPTH PAR PROPL Se TOL 145 151 152 XYLEN Zn NTXPM FOR SOURCE # 36 WIND EROSION1
OPERATING HOURS = 8760.00 SURFACE AREA (m2) = 2.156E+05 DEPOSITION ADJUST. FACTOR = 2.50000 ATE ANNUAL : (lb/hr) (g/s) POLLUTANT NAME POLLUTANT NUMBER 1-HOUR RATE ANNUAL RATE (lb/yr) ACETA ACROL As BENZE 13 17 22 36 38 70 79 83 Cd **ECHO** HCN 85 87 Mn Hg Ni 111 110 130 134 137 NAPTH PAH PROPL 0.000E+00 0.000E+00 0.000E+00 1.862E-07 1.704E-02 0.000E+00 0.000E+00 Se TOL 145 151 152 XYLEN 0.000E+00 1.295E-02 1.185E+03 NTXPM FOR SOURCE # 37 WIND EROSION2
OPERATING HOURS = 8760.00 SURFACE AREA (m2) = 4.331E+05 DEPOSITION ADJUST. FACTOR = 2.50000 1-EOUR RATE (g/s) (1b/hr) (g/s) (g/s)

0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00
2.827E-06 2.244E-05 2.918E-06
0.000E+00 0.000E+00 0.000E+00
1.036E-08 8.222E-08 1.070E-08
1.020E-07 8.095E-07 1.053E-07
1.658E-08 1.316E-07 1.712E-08
2.371E-07 1.882E-06 2.448E-07
0.000E+00 0.000E+00 0.000E+00
4.320E-07 3.429E-06 4.459E-07 POLLUTANT NAME POLLUTANT NUMBER 1-HOUR RATE ANNUAL RATE (g/s) (lb/yr) ACROL 3 0.000E+00 2.029E-01 0.000E+00 As BENZE 10 13 17 22 36 38 70 79 83 85 Be Cd 7.439E-04 7.321E-03 1.190E-03 1.702E-02 Cr Cu 0.000E+00 HCHO 

 0.000E+00
 0.000E+00
 0.000E+00

 4.320E-07
 3.429E-06
 4.459E-07

 2.597E-06
 2.061E-05
 2.681E-06

 0.000E+00
 0.000E+00
 0.000E+00

 7.545E-08
 5.988E-07
 7.788E-08

 0.000E+00
 0.000E+00
 0.000E+00

 3.623E-07
 2.875E-06
 3.740E-07

 3.316E-02
 2.632E-01
 3.423E-02

 Pb 3.100E-02 1.864E-01 Μn 87 111 110 130 0.000E+00 Ħg 5.415E-03 0.000E+00 Ni NAPTH 0.000E+00 PROPL 134 137 0.000E+00 0.000E+00 Se TOL 0.000E+00 0.000E+00 0.000E+00 2.600E-02 2.380E+03 XYLEN Zn NTXPM FOR SOURCE # 38 WIND\_EROSION3

Page 14

OPERATING HOURS = 8760	.00 SURFACE AREA (m2) =	1.371E+05	DEPOSITION ADJUST.	FACTOR = 2.50000
POLLUTANT NAME POLLUTANT	NUMBER 1-HOUR (g/s)	RATE (lb/hr)	ANNUAL R	ATE (lb/yr)
ACETA ACROL AS ACROL AS BENZE Be 11 Be 12 Cd Cr Cd Cr 36 ECHO 77 HCN 77 Fb 88 Mn 11 NAPTH 11 FAH 11 FAH 13 FROPL 13 Se 13 TOL XYLEN 15 AN NTXFM 99	0.0005±00			-
ACROL	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00 9.238E-07	0.000E+00
As 10	0.000E+00 8.949E-07 0.000E+00 7 3.281E-09 2 3.228E-08 5.249E-08 5.249E-08 0.000E+00	7.102E-06	9.238E-07	6.423E-02
BENZE 1:	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Be 17	7 3.281E-09	2.604E-08	3.386E-09	2.354E-04
Cd 2:	2 3.2285-U8 5 769F-09	4.36ZE-07	3.334E-00 5 418F-09	2.317E-03 3.767E-04
Cu 3	7.506E-08	5.957E-07	7.748E-08	
ECHO 70	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ECN 7	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pb 8: Ma 8:	3 1.36/E-0/	1.085E-06	1.411E-07	9.810E-03 5.890F-02
Hg 8	7 0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ni 11	1 2.388E-08	1.895E-07	2.465E-08	1.714E-03
NAPTH 11	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PAH 13 PROPL 13	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Se 13	7 0.0002+00	0.000E+00	0.0002+00	0.000E+00
TOL 14	5 0.000E+00	0.000E+00	0.000E+00	0.000E+00
XYLEN 15	1 0.000E+00	0.000E+00	0.000E+00	0.000E+00
Zn 15	2 1.147E-07	9.103E-07	1.184E-07	8.232E-03
NTXPM 99	8 1.050E-02	8.333E-02	7.748E-08 0.000E+00 0.000E+00 1.411E-07 8.485E-07 0.000E+00 2.465E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.184E-07 1.084E-02	7.3362702
FOR SOURCE # 39 WIND				
POLLUTANT NAME POLLUTAN	(0/4)	RATE (lb/hr)	ANNUAL 1 (g/s) 0.000E+00 0.000E+00 1.731E-06 0.000E+00 6.344E-09 6.243E-08	RATE (lb/yr)
ACETA	1 0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACROL	3 0.000E+00	0.000E+00	0.000E+00	0.000E+00
As 1	.0 1.677E-06	1.331E-05	1.731E-06	1.203E-01
BENZE	3 0.000E+00	0.000E+00	0.000E+00	0.000E+00
Be I	0.146E-09 6.048E-08	0.000E+00 4.878E-08 4.800E-07 7.804E-08 1.116E-06 0.000E+00 0.000E+00 2.033E-06	6.243E+08	4.411E-04 4.340E-03
ČF 3	9.833E-09	7.804E-08	1.015E-08	7.057E-04
Cu 3	1.406E-07	1.116E-06	1.015E-08 1.452E-07 0.000E+00 0.000E+00 2.644E-07	1.009E-02
ECHO	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ECN Pb	79 0.000E+00 33 2.562E-07	2.033E-06	2 644F-07	0.000E+00 1.838E-02
Mn.	35 1.540E-06	1.222E-05	1.590E-06	1.105E-01
Eg	0.000E+00	0.000E+00	1.590E-06 0.000E+00 4.619E-08 0.000E+00 0.000E+00	0.000E+00
Ni 1:	11 4.474E-08	3.551E-07	4.619E-08	3.211E-03
NAPTH 1:	10 0.000E+00	0.000E+00	0.0000	0.000E+00 0.000E+00
PAH 1: PROPL 1:	30 0.000E+00 34 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0 000F+00
Se 1	37 0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOL 1	45 0.000E+00	0.000E+00	0.000E+00	0.000E+00
XYLEN 1	51 0.000E+00	0.000E+00	0.000E+00	0.000E+00
Zn 1 NTXPM 9	52	1.706E-06 1.561E-01	0.000E+00 0.000E+00 0.000E+00 2.018E-07 2.030E-02	1.542E-02 1.411E+03
	D EROSTONS			
	60.00 SURFACE AREA (m2) =	5.041E+05	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUTANT NAME POLLUTA	NT NUMBER 1-EOU (g/s)	R RATE (lb/hr)		(lb/yr)
ACETA	1 0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACROL	3 0.000E+00 10 3.291E-06	0.000E+00 2.612E-05	0.000E+00 3.397E-06	0.000E+00 2.362E-01
As BENZE	13 0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ве	17 1.206E-08	9.571E-08	1.245E-08	8.656E-04
Cd	22 1.187E-07	9.421E-07	1.225E-07	8.517E-03
Cr C-	36 1.930E-08	1.532E-07	1.992E-08	1.385E-03 1.981E-02
	38 2.760E-07 70 0.000E+00	2.190E-06 0.000E+00	2.849E-07 0.000E+00	0.000E+00
	79 0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pb	83 5.028E-07	3.990E-06	5.190E-07	3.608E-02
Mn	85 3.022E-06	2.398E-05	3.120E-06	2.169E-01
	87 0.000E+00	0.000E+00	0.000E+00	0.000E+00
	111 8.782E-08 110 0.000E+00	6.970E-07 0.000E+00	9.065E-08 0.000E+00	6.302E-03 0.000E+00
	130 0.000E+00	0.000E+00	0.000E+00	0.000E+00
PROPL	134 0.000E+00	0.000E+00	0.000E+00	0.000E+00
Se	137 0.000E+00	0.000E+00	0.000E+00	0.000E+00
	145 0.000E+00 151 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
	151 0.000E+00 152 4.217E-07	3.347E-06	4.353E-07	3.026E-02
	998 3.860E-02	3.063E-01	3.985E-02	2.771E+03
	E PAD1 750.00 SURFACE AREA (m2)	= 5.993E+05	DEPOSITION ADJUST	I. FACTOR = 2.50000

POLLUTANT NAME POLLUTANT NUMBER

1-HOUR RATE

ANNUAL RATE

		(g/s)	(lb/hr)	(g/s)	(lb/yr)
ACETA ACROL AS BENZE Be Cd Cr Cu BCHO HCN Pb Mn Hg Ni NAPTH PAH PROFL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
FOR SOURCE # 42 OPERATING HOURS =	ORE PAD2 8760.00 S	SURFACE AREA (m2) =	3.188E+05	DEPOSITION ADJUST.	FACTOR = 2.50000
POLLUTANT NAME P	OLLUTANT NUMBER	1-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCN Fb Mn Hg Ni NAPTH PAH FROPL Se TOL XYLEN Zn NTXPM  FOR SOURCE # 43 OPERATING HOURS		0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.00E+00
POLLUTANT NAME		1-HOUR	RATE	ANUAL	RATE
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCN Pb Mn Hg Ni NAPTH PAH FROPL Se TOL XYLEN Zn NTXPM FOR SOURCE # 44	1 3 10 13 17 22 36 38 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	(8/s)  0.000E+00	(lb/hr) 0.000E+00	(g/s)  0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
OPERATING HOURS	= 8760.00	SURFACE AREA (m2) =	1.000E+00	DEPOSITION ADJUST	
	POLLUTANT NUMBER	1-HOUR (g/s)	(lb/hr)	ANNUAL (g/s)	(lb/yr)
ACETA ACROL	1 3	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00

AS 10 BENZE 13 Be 17 Cd 22 Cr 36 Cu 38 HCHO 70 HCN 79 Fb 83 Mm 85 Hg 87 Ni 111 NAPTH 110 PAE 130 FROPL 134 Se 137 TOL 145 XYLEN 151 Zn 152 NTXPM 998	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.284E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
FOR SOURCE # 45 FURNACE OPERATING HOURS = 8760.00				
POLLUTANT NAME POLLUTANT NUR	BER 1-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/g)	RATE (lb/yr)
	(g/s)  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.467E-05 1.389E-07 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.164E-04 1.102E-06 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.225E-07 4.948E-09 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.633E-02 3.440E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
FOR SOURCE # 46 DIESEL TOPERATING HOURS = 8760.00				
POLLUTANT NAME POLLUTANT NU			ANNUA (g/s)	
ACETA 1 ACROL 3 As 10 BENZE 13 Be 17 Cd 22 Cr 36 Cu 38 HCHO 70 HCN 79 Fb 83 Mm 85 Hg 87 Ni 111 NAPTH 110 PAH 130 FROPL 134 Se 137 TOL 145 XYLEN 151 Zn 152 NTXPM 998	0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00	0.000E+00
*** INPUT FACILIT	Y-WIDE EMISSION RATES **	<b>t</b> e		
POLLUTANT NAME POLLUTANT N	TUMBER 1-HO	UR RATE (lb/hr)	ANNUA (g/s)	AL RATE (lb/yr)
ACETA 1 ACROL 3 AS 10 BENZE 13 Be 17 Cd 22 Cr 36	0.000E+00 0.000E+00 5.308E-03 0.000E+00 6.178E-03 2.003E-04 6.060E-05	0.000E+00 0.000E+00 4.213E-02 0.000E+00 4.903E-02 1.590E-03 4.809E-04	0.000E+00 0.000E+00 1.604E-04 0.000E+00 1.933E-05 6.290E-06 1.035E-06	0.000E+00 0.000E+00 1.115E+01 0.000E+00 1.344E+00 4.373E-01 7.195E-02

Page 17

Cu	38	4.585E-04	3.639E-03	1.349E-05	9.380E-01
ECHO	70	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ECN	79	3.136E-01	2.489E+00	3.143E-01	2.185E+04
Pb	83	3.583E-03	2.843E-02	3-294E-05	2.290E+00
Ma	85	9.468E-03	7.514E-02	1.613E-04	1.121E+01
Eg	87	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Nī	111	3.144E-04	2.495E-03	4 805E-06	3.341E-01
NAPTH	110	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PAH	130	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PROPL	134	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Se	137	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOL	145	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XYLEN	151	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Zn.	152	6.973E-04	5.534E-03	2.061E-05	1.433E+00
NTXPM	998	1.207E+02	9.579E+02	2.060E+00	1.432E+05

### \*\*\* INPUT POLLUTANT BACKGROUND CONCENTRATIONS (ug/m3) \*\*\*\*

POLLUTANT NAME	POLLUTANT NUMBER	1-HOUR BACKG.	ANNUAL BACKG
ACETA	1 3	0.000E+00	0.000E+00
ACROL.		0.000E+00	0.000E+00
As	10	0.000E+00	0.000E+00
BENZE	13	0.000E+00	0.000E+00
Be	17	0.000E+00	0.000E+00
Cd	22	0.000E+00	0.000E+00
Cr	36	0.000E+00	0.000E+00
Cu	38	0.000E+00	0.000E+00
ECHO	70	0.000E+00	0.000E+00
ECN	79	0.000E+00	0.000E+00
Pb	83	0.000E+00	0.000E+00
Man	85	0.000E+00	0.000E+00
Ηg	87	0.000E+00	0.000E+00
Ni	111	0.000E+00	G.000E+00
NAPTH	110	0.000 <b>E+</b> 00	0.000E+00
PAH	130	0.000E+00	0.000E+00
PROPL	134	0.000E+00	0.000E+00
Se	137	0.000E+00	0.000E+00
TOL.	145	0.000E+00	0.000E+00
XYLEN	151	0.000E+00	0.000E+00
Zn	152	0.000E+00	0.000E+00
NIXPM	998	0.000E+00	0.000E+00

OLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS. 1991 MET, FM10 \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* nput File: g:\beest\GQ\gqpmace.dat Output File: g:\beest\GQ\GQpmaCE.OUT 11/14/96 07:00:20 Page - 35

#### \*\*\* INPUT RECEPTOR DATA \*\*\*

RECEPTOR #	RECEPTOR NAME	X-COORD	Y-COORD	ELEVATION	POPULATION (	GARDEN FRAC	SCREEN X/Q
1	RES 24-1	389400.00	3868050.00	2760.00		0.00000	0.000E+00
	RES 20-1				0		
2		392550.00	3868000.00	2650.00	0	0.00000	0.000E+00
3,	RES_20-2	392600.00	3868000.00	2650.00	Ų	0.00000	0.000E+00
4	RES_13-1	390250.00	3868800.00	2760.00	0	0.00000	0.000E+00
5	RES_13-2	390300.00	3868750.00	2760.00	g	0.00000	0.000E+00
6	RES_13-3	390300.00	3868500.00	2760.00	0	0.00000	0.000E+00
7	RES_16-1	393500.00	3868200.00	2610.00	0	0.00000	0.000E+00
8	RES_16-2	393750.00	3868300.00	2600.00	0	0.00000	0.000E+00
9	RES_16-3	393800.00	3868450.00	2590.00	0	0.00000	0.000E+00
10	RES 12-1	389750.00	3870450.00	2820.00	0	0.00000	0.000E+00
11	RES <sup>-</sup> 9-1	395050.00	3870600.00	2590.00	0	0.00000	0.000E+00
12	REST5-1	392200.00	3872600.00	2840.00	0	0.00000	0.000E+00
13	RES_31-1	390800.00	3873450.00	2810.00	ā	0.00000	0.000E+00
14	RES_31-2	390750.00	3873400.00	2810.00	ō	0.00000	0.000E+00
Ī <b>5</b>	RES 31-3	390700.00	3873400.00	2820.00	ŏ	0.00000	0.000E+00
16	RES 31-4	390650.00	3873200.00	2820.00	ă	0.00000	0.000E+00
17	RES 32-1	393500.00	3873700.00	2710.00	ŏ	0.00000	0.000E+00
18	RES 32-2	392450.00	3873750.00	2740.00	ŏ	0.00000	0.000E+00
19	RES 32-3	391950.00	3873950.00	2760.00	ă	0.00000	0.000E+00
ŽÕ	RES 32-4	391900.00	3873400.00	2780.00	ŏ	0.00000	0.000E+00
21	PROF.001	371700.00			. 0	0.00000	0.000E+00
22	PROP.002	389750.00 389759.00	3871670.00 3871788.00	2840.00 2850.00	. 0		0.000E+00
22 23	PROP.003					0.00000	
24	PROP.003	389778.00	3871908.00	2850.00	0	0.00000	0.000E+00
24	PROP.005	389803.00	3872019.00	2850.00	0	0.00000	0.000E+00
25 26		389826.00	3872073.00	2850.00	0	0.00000	0.000E+00
20	PROP.006	389928.00	3872271.00	2850.00	ō	0.00000	0.000E+00
27	PROP.007	390027.00	3872472.00	2850.00	0	0.00000	0.000E+00
28	PROP.008	390083.00	3872582.00	2835.00	Q	0.00000	0.000E+00
29	PROP.009	390203.00	3872720.00	2830.00	0	0.00000	0.000E+00
30	PROP.010	390252.00	3872758.00	2830.00	0	0.00000	0.000E+00
31	PROP.011	390352.00	3872832.00	2820.00	Q	0.00000	0.000E+00
32	PROP.012	390434.00	3872889.00	2820.00	0	0.00000	0.000E+00
33	PROP.013	390669.00	3872895.00	2820.00	0	0.00000	0.000E+00
34	PROP.014	390904.00	3872902.00	2820.00	C	0.00000	0.000E+00
35	PROP.015	391139.00	3872908.00	2820.00	0	0.00000	0.000E+00
36	PROP.016	391374.00		2820.00	0	0.00000	0.000E+00
37	PROP.017	391609.00		2810.00	Ō	0.0000	0.000E+00
38	FROP.018	391844.00		2790.00	ŏ	0.00000	0.000E+00
39	PROP.019	391844.00		2850.00	ă	0.00000	0.000E+00
40	PROP. 020	391845.00		2900.00	ŏ	0.00000	0.000E+00
41	PROP.021	391845.00		3000.00	ŏ	0.00000	0.000E+00
42	PROP. 022	391846.00		3175.00	. 0	0.00000	0.000E+00
_							

43	PROP.023	392046.00 3872165.00	3100.00	0	0.00000	0.000E+00
44 45	PROF.024 PROF.025	392246.00 3872172.00 392446.00 3872178.00	2975.00 2825.00	0		0.000E+00 0.000E+00
46 47	PROP.026	392647.00 3872185.00	2860.00	0	0.00000	0.000E+00
48	PROF.027 PROF.028	392658.00 3871975.00 392670.00 3871765.00	3090.00 2900.00	0	0.00000 0.00000	0.000E+00 0.000E+00
49 50	PROP.029 PROP.030	392682.00 3871555.00 392694.00 3871346.00	2925.00 2950.00	0 .	0.00000	0.000E+00
51	PROP.031	392887.00 3871350.00	3000.00	ŏ	0.00000	0.000E+00 0.000E+00
52 53	PROP.032 PROP.033	393080.00 3871355.00 393273.00 3871360.00	2950.00 2875.00	0	0.00000 0.00000	0.000E+00 0.000E+00
54	PROP.034	393467.00 3871365.00	3025.00	ō	0.00000	0.000E+00
55 56	PROP.035 PROP.036	393467.00 3871139.00 393467.00 3870914.00	3000.00 3000.00	0	0.00000 0.00000	0.000E+00 0.000E+00
57 58	FROP.037 PROP.038	393467.00 3870689.00	2760.00 2830.00	0	0.00000	0.000E+00
59	PROP. 039	393037.00 3870689.00	3020.00	0	0.00000 0.00000	0.000E+00 0.000E+00
60 61	PROP.040 PROP.041	392822.00 3870689.00 392607.00 3870689.00	3110.00 3440.00	0	0.0 <b>00</b> 00 0.00000	0.000E+00 0.000E+00
62	PROP.042	392392.00 3870689.00	3500.00	ă	0.00000	0.000E+00
63 64	FROP.043 FROP.044	392178.00 3870689.00 392178.00 3870521.00	3120.00 3020.00	0	0.00000 0.00000	0.000E+00 0.000E+00
65 66	PROP.045 PROP.046	392010.00 3870521.00 391842.00 3870521.00	3180.00 3120.00	000000000000000000000000000000000000000	0.00000 0.00000	0.000E+00 0.000E+00
67	PROP.047	391643.00 3870520.00	3060.00	ŏ	0.00000	0.000E+00
68 69	PROP.048 PROP.049	391445.00 3870519.00 391247.00 3870518.00	3030.00 3180.00	0	0.00000 0.00000	0.000E+00 0.000E+00
70	PROP.050	391049.00 3870518.00	3120.00	0	0.00000	0.000E+00
71 72	PROP.051 PROP.052	391044.00 3870310.00 391040.00 3870103.00	3300.00 3140.00	0	0.00000 0.00000	0.000E+00 0.000E+00
73 74	FROP.053 FROP.054	391036.00 3869895.00 391032.00 3869688.00	2980.00 3120.00	0	0.00000	0.000E+00 0.000E+00
75	PROP.055	390827.00 3869681.00	3000.00	0	0.00000	0.000E+00
76 77	PROP.056 PROP.057	390623.00 3869674.00 390419.00 3869667.00	2920.00 2910.00	0	0.00000 0.00000	0.000E+00 0.000E+00
78 79	PROP.058	390215.00 3869661.00	3000.00	Ò	0.00000	0.000E+00
80	PROP.059 PROP.060	390214.00 3869865.00 390213.00 3870070.00	3020.00 2930.00	0 0	0.00000 0.00000	0.000E+00 0.000E+00
81 82	PROP.061 PROP.062	390212.00 3870275.00 390212.00 3870480.00	2920.00 2880.00	0 0	0.00000 0.00000	0.000E+00 0.000E+00
83	PROP.063	390211.00 3870677.00	2870.00	Q	0.00000	0.000E+00
84 85	PROP.064 PROP.065	390210.00 3870875.00 390209.00 3871072.00	2860.00 2860.00	0 0	0.00000 0.00000	0.000E+00 0.000E+00
86	PROP.066	390209.00 3871270.00	2870.00	Ō	0.00000	0.000E+00
87 88	PROP.067 PROP.068	390039.00 3871272.00 389869.00 3871274.00	2840.00 2840.00	0	0.00000 0.00000	0.000E+00 0.000E+00
89 90	PROP.069 PROP.070	389700.00 3871276.00 389725.00 3871473.00	2840.00 2840.00	0	0.00000 0.00000	0.000E+00 0.000E+00
91	100.0001	391600.00 3870100.00	2840.00	0	0.00000	0.000E+00
92 93	100.0002 100.0003	391700.00 3870100.00 391800.00 3870100.00	2840.00 2850.00	0	0.00000 0.00000	0.000E+00 0.000E+00
94	100.0004	391900.00 3870100.00	2900.00	Ò	0.00000	0.000E+00
95 96	100.0005 100.0006	392000.00 3870100.00 392100.00 3870100.00	2900.00 2870.00	0	0.00000 0.00000	0.000E+00 0.000E+00
97 98	100.0007 100.0008	392200.00 3870100.00 392300.00 3870100.00	2900.00 2790.00	0	0.00000 0.00000	0.000E+00 0.000E+00
99	100.0009	392400.00 3870100.00	2900.00	Ŏ	0.00000	0.000E+00
100 101	100.0010 100.0011	392500.00 3870100.00 392600.00 3870100.00	2880.00 2960.00	0	0.00000 0.00000	0.000E+00 0.000E+00
102 103	100.0012 100.0013	392700.00 3870100.00	3070.00 2860.00	000000000000000000000000000000000000000	0.00000	0.000E+00 0.000E+00
104	100.0014	391700.00 3870200.00	2880.00	ŏ	0.00000 0.00000	0.000E+00
105 106	100.0015 100.0016	391800.00 3870200.00 391900.00 3870200.00	2890.00 2930.00	0	0.00000 0.00000	0.000E+00 0.000E+00
107	100.0017	392000.00 3870200.00	2920.00	0	0.00000	0.000E+00
108 109	100.0018 100.0019	392100.00 3870200.00 392200.00 3870200.00	2910.00 2920.00	0	0.00000 0.00000	0.000E+00 0.000E+00
110	100.0020 100.0021	392300.00 3870200.00 392400.00 3870200.00	2940.00 2930.00	0 0	0.00000 0.00000	0.000E+00 0.000E+00
111 112	100.0022	392500.00 3870200.00	2950.00	ā	0.00000	0.000E+00
113 114	100.0023 100.0024	392600.00 3870200.00 392700.00 3870200.00	2970.00 3120.00	0	0.00000 0.00000	0.000E+00 0.000E+00
115	100.0025	391600.00 3870300.00	2900.00	0	0.00000	0.000E+00
116 117	100.0026 100.0027	391800.00 3870300.00	2920.00 2930.00	0	0.00000 0.00000	0.000E+00 0.000E+00
118	100.0028 100.0029	391900.00 3870300.00 392000.00 3870300.00	2960.00 3000.00	0 0	0.00000 0.00000	0.000E+00 0.000E+00
120	100.0030	392100.00 3870300.00	2960.00	0	0.00000	0.000E+00
119 120 121 122	100.0031 100.0032	392300.00 3870300.00	2940.00 2980.00	0	0.00000 0.00000	0.000E+00 0.000E+00
123 124 125 125	100.0033 100.0034	392400.00 3870300.00 392500.00 3870300.00	2980.00 3020.00	0	0.00000	0.000E+00 0.000E+00
125	100.0035	392600.00 3870300.00	3140.00	0	0.00000	0.000E+00
127	100.0036 100.0037	392700.00 3870300.00 391600.00 3870400.00	3170.00 2940.00	0 0	0.00000	0.000E+00 0.000E+00
128 129 130	100.0038 100.0039	391700.00 3870400.00 391800.00 3870400.00	2950.00 2980.00	0	0.00000	0.000E+00 0.000E+00
130	100.0040	391900.00 3870400.00	3060.00	0	0.00000	0.000E+00
131 132	100.0041 100.0042	392000.00 3870400.00 392100.00 3870400.00	3140.00 3020.00	0	0.00000 0.00000	0.000E+00 0.000E+00
133	100.0043	392200.00 3870400.00	2980.00	0	0.00000	0.000E+00
134 135	100.0044 100.0045	392300.00 3870400.00 392400.00 3870400.00	3040.00 3110.00	0 0	0.00000	0.000E+00 0.000E+00
136 137	100.0046 100.0047	392500.00 3870400.00 392600.00 3870400.00	3280.00 3250.00	<u>0</u>	0.00000	0.000E+00 0.000E+00
138	100.0048	392700.00 3870400.00	3260.00	o o	0.00000	0.000E+00
139	100.0049	391600.00 3870500.00	3020.00	0	0.00000	0.000E+00

140 141 142	100.0050 100.0051 100.0052	391700.00 3870500.00 391800.00 3870500.00 391900.00 3870500.00	3040.00 3060.00 3200.00	0 0 0	0.00000 0.00000 0.00000	0.000E+00 0.000E+00 0.000E+00
143 144	100.0053 100.0054	392000.00 3870500.00 392100.00 3870500.00	3200 00	n	0.00000	0.000E+00 0.000E+00
145 146	100.0055 100.0056	392200.00 3870500.00 392300.00 3870500.00	3040.00 3140.00		0.00000 0.00000 0.00000	0.000E+00 0.000E+00 0.000E+00
147 148 149	100.0057 100.0058 100.0059	392400.00 3870500.00 392500.00 3870500.00 392600.00 3870500.00	3240.00 3320.00 3400.00	0	0.00000	0.000E+00 0.000E+00
150 151	100.0060 100.0061	392700.00 3870500.00 392200.00 3870600.00	3400.00 3110.00	ŏ	0.00000	0.000E+00 0.000E+00
152 153	100.0062 100.0063	392300.00 3870600.00 392400.00 3870600.00	3280.00 3430.00	O .	0.00000 0.00000	0.000E+00 0.000E+00
154 155	100.0064 100.0065	392500.00 3870600.00 392600.00 3870600.00	3130.00 3520.00	0	0.00000	0.000E+00 0.000E+00
156 157 158	100.0066 250.0001 250.0002	392700.00 3870600.00 391000.00 3869500.00 391250.00 3869500.00	3390.00 3070.00 3140.00	0	0.00000 0.00000 0.00000	0.000E+00 0.000E+00 0.000E+00
159 160	250.0003 250.0004	391500.00 3869500.00 391750.00 3869500.00	2880.00 2730.00	0	0.00000	0.000E+00 0.000E+00
161 162	250.0005 250.0006	392000.00 3869500.00 392250.00 3869500.00	2710.00 2700.00	0	0.00000 0.00000	0.000E+00 0.000E+00
163 164	250.0007 250.0008	392500.00 3869500.00 392750.00 3869500.00	2690.00 2660.00	0	0.00000	0.000E+00 0.000E+00
165 166	250.0009 250.0010	393000.00 3869500.00 393250.00 3869500.00	2670.00 2650.00	0	0.00000 0.00000 0.00000	0.000E+00 0.000E+00 0.000E+00
167 168 169	250.0011 250.0012 250.0013	393500.00 3869500.00 391250.00 3869750.00 391500.00 3869750.00	2610.00 2890.00 2790.00	0	0.00000	0.000E+00 0.000E+00
170 171	250.0014 250.0015	391750.00 3869750.00 392000.00 3869750.00	2760.00 2770.00	0	0.00000	0.000E+00 0.000E+00
172 173	250.0016 250.0017	392250.00 3869750.00 392500.00 3869750.00	2760.00 2760.00	0	0.00000	0.000E+00 0.000E+00
174 175	250.0018 250.0019	392750.00 3869750.00 393000.00 3869750.00	2800.00 2840.00	0	0.00000	0.000E+00 0.000E+00
176 177 178	250.0020 250.0021 250.0022	393250.00 3869750.00 393500.00 3869750.00 391250.00 3870000.00	2720.00 2700.00 3010.00	0	0.00000 0.00000 0.00000	0.000E+00 0.000E+00 0.000E+00
179 180	250.0022 250.0023 250.0024	391500.00 3870000.00 391750.00 3870000.00	2880.00 2810.00	ő	0.00000	0.000E+00 0.000E+00
181 182	250.0025 250.0026	392000.00 3870000.00 392250.00 3870000.00	2860.00 2940.00	. 0	0.00000	0.000E+00 0.000E+00
183 184	250.0027 250.0028	392500.00 3870000.00 392750.00 3870000.00	2850.00 3040.00	0	0.00000	0.000E+00 0.000E+00
185 186	250.0029 250.0030	393000.00 3870000.00 393250.00 3870000.00	2980.00 2860.00	0	0.00000	0.000E+00 0.000E+00
187 188 189	250.0031 250.0032	393500.00 3870000.00 391250.00 3870250.00 391500.00 3870250.00	2760.00 3140.00 2910.00	0	0.00000 0.00000 0.00000	0.000E+00 0.000E+00 0.000E+00
190 191	250.0033 250.0034 250.0035	391500.00 3870250.00 391750.00 3870250.00 392000.00 3870250.00	2910.00 2910.00 2960.00	0	0.00000	0.000E+00 0.000E+00
192 193	250.0036 250.0037	392250.00 3870250.00 392500.00 3870250.00	2940.00 2990.00	0	0.00000	0.000E+00 0.000E+00
194 195	250.0038 250.0039	392750.00 3870250.00 393000.00 3870250.00	3180.00 2980.00	0	0.00000	0.000E+00 0.000E+00
196 197	250.0040 250.0041	393250.00 3870250.00 393500.00 3870250.00	3000.00 2840.00	0	0.00000	0.000E+00 0.000E+00
198 199 200	250.0042 250.0043 250.0044	391250.00 3870500.00 391500.00 3870500.00 391750.00 3870500.00	3160.00 3000.00 3040.00	0	0.00000 0.00000 0.00000	0.000E+00 0.000E+00 0.000E+00
201 202	250.0045 250.0046	392250.00 3870500.00 392750.00 3870500.00	3100.00 3380.00	0	0.00000	0.000E+00 0.000E+00
203 204	250.0047 250.0048	393000.00 3870500.00 393250.00 3870500.00	3100.00 2880.00	0	0.00000 0.00000	0.000E+00 0.000E+00
205 206	250.0049 250.0050	393500.00 3870500.00 393500.00 3870750.00	2820.00 2840.00	0	0.00000	0.000E+00 0.000E+00
207 208 209	250.0051 500.0001 500.0002	393500.00 3871000.00 386000.00 3867500.00 386500.00 3867500.00	3050.00 2840.00 2840.00	0 0 0	0.00000 0.00000 0.00000	0.000E+00 0.000E+00 0.000E+00
210 211	500.0002 500.0003 500.0004	387000.00 3867500.00 387500.00 3867500.00	2830.00 2810.00	0	0.00000	0.000E+00 0.000E+00
212 213	500.0005 500.0006	388000.00 3867500.00 388500.00 3867500.00	2800.00 2790.00	0	0.00000 0.00000	0.000E+00 0.000E+00
214 215	500.0007 500.0008	389000.00 3867500.00 389500.00 3867500.00	2770.00 2750.00	0	0.00000 0.00000	0.000E+00 0.000E+00
216 217 218	500.0009 500.0010	390000.00 3867500.00 390500.00 3867500.00	2740.00 2730.00	0	0.00000	0.000E+00 0.000E+00
219	500.0011 500.0012 500.0013	391000.00 3867500.00 391500.00 3867500.00 392000.00 3867500.00	2710.00 2690.00 2670.00	0 0 0	0.00000 0.00000 0.00000	0.000E+00 0.000E+00 0.000E+00
221 222	500.0014 500.0015	392500.00 3867500.00 393000.00 3867500.00	2650.00 2630.00	0	0.00000	0.000E+00 0.000E+00
223 224	500.0016 500.0017	393500.00 3867500.00 394000.00 3867500.00	2600.00 2590.00	0	0.00000 0.00000	0.000E+00 0.000E+00
225 226	500.0018 500.0019	394500.00 3867500.00 395000.00 3867500.00	2580.00 2560.00	0	0.00000	0.000E+00 0.000E+00
220 221 222 223 224 225 226 227 228 229	500.0020 500.0021 500.0022	386000.00 3868000.00 386500.00 3868000.00 387000.00 3868000.00	2860.00 2860.00 2860.00	0 0 0	0.00000 0.00000 0.00000	0.000E+00 0.000E+00 0.000E+00
230 231	500.0022 500.0023 500.0024	387500.00 3868000.00 388000.00 3868000.00	2840.00 2820.00	0	0.00000	0.000E+00 0.000E+00
230 231 232 233 234	500.0025 500.0026	388500.00 3868000.00 389000.00 3868000.00	2800.00 2780.00	0	0.00000 0.00000	0.000E+00 0.000E+00
234 235 236	500.0027 500.0028	389500.00 3868000.00 390000.00 3868000.00	2770.00 2750.00	0	0.00000 0.00000	0.000E+00 0.000E+00
200	500.0029	390500.00 3868000.00	2740.00	0	0.00000	0.000E+00

237 238 239 240 241 242 243 244 245 247 248 250 251 252 253 255 257 258 259 261 262 263 264 265 267	500.0030 500.0031 500.0032 500.0033 500.0034 500.0035 500.0036 500.0037 500.0039 500.0040 500.0041 500.0042 500.0043 500.0044 500.0044 500.0045 500.0046 500.0047 500.0048 500.0049 500.0050 500.0050 500.0051 500.0052 500.0054 500.0055 500.0055 500.0057 500.0058 500.0058	391000.00 3868000.00 391500.00 3868000.00 392500.00 3868000.00 392500.00 3868000.00 393500.00 3868000.00 394500.00 3868000.00 3868000.00 3868000.00 39500.00 3868000.00 386500.00 3868500.00 387500.00 3868500.00 387500.00 3868500.00 388500.00 3868500.00 388500.00 3868500.00 389500.00 3868500.00 389500.00 3868500.00 391500.00 3868500.00 391500.00 3868500.00 391500.00 3868500.00 391500.00 3868500.00 391500.00 3868500.00 391500.00 3868500.00 391500.00 3868500.00 391500.00 3868500.00 391500.00 3868500.00 391500.00 3868500.00 391500.00 3868500.00 391500.00 3868500.00 391500.00 3868500.00 391500.00 3868500.00 391500.00 3868500.00 391500.00 3868500.00 391500.00 3868500.00 391500.00 3868500.00	2720.00 2700.00 2680.00 2680.00 2630.00 2630.00 2590.00 2580.00 2880.00 2880.00 2870.00 2870.00 2820.00 2820.00 2710.00 2710.00 2710.00 2710.00 2710.00 2750.00 2750.00 2750.00 2750.00 2750.00 2750.00 2750.00 2750.00 2750.00	0
267 269 277 277 277 277 277 277 2780 281 283 284 288 289 299 299 299 299 299 300 303 304 307 308 309 311 311 311 311 311	500.0060 500.0061 500.0062 500.0063 500.0064 500.0065 500.0066 500.0067 500.0069 500.0071 500.0072 500.0073 500.0074 500.0075 500.0076 500.0077 500.0078 500.0078 500.0079 500.0080 500.0081 500.0082 500.0082 500.0083 500.0084 500.0085 500.0088 500.0088 500.0088 500.0088 500.0088 500.0089 500.0089 500.0099 500.0099 500.0099 500.0099 500.0099 500.0099 500.0099 500.0099 500.0098 500.0099	387000 .00 3869000 .00 387500 .00 386900 .00 386900 .00 386900 .00 386900 .00 389900 .00 389900 .00 389900 .00 389900 .00 389900 .00 389900 .00 386900 .00 391000 .00 386900 .00 391500 .00 386900 .00 391500 .00 386900 .00 392500 .00 386900 .00 392500 .00 386900 .00 393500 .00 386900 .00 39400 .00 386900 .00 387000 .00	2920.00 2920.00 2910.00 2890.00 2890.00 2860.00 2840.00 2850.00 2590.00 2580.00 2570.00 2940.00 2940.00 2940.00 2940.00 2950.00 2860.00 2860.00 2870.00 2970.00 2970.00 2950.00 2950.00 2950.00 2950.00 2950.00 2950.00 2950.00 2950.00 2950.00	0 0.00000 0.000E+00
316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333	500.0109 500.0110 500.0111 500.0112 500.0113 500.0114 500.0115 500.0116 500.0117 500.0118 500.0119 500.0120 500.0121 500.0122 500.0123 500.0124 500.0125 500.0125	389500.00 3870500.00 394000.00 3870500.00 394500.00 3870500.00 394500.00 3870500.00 39500.00 3870500.00 386500.00 3871000.00 387000.00 3871000.00 387500.00 3871000.00 387500.00 3871000.00 388000.00 3871000.00 389500.00 3871000.00 389500.00 3871000.00 389500.00 3871000.00 394000.00 3871000.00 394000.00 3871000.00 394000.00 3871000.00 394500.00 3871000.00 395000.00 3871000.00 395000.00 3871000.00	2820.00 2850.00 2720.00 2670.00 2590.00 2990.00 2910.00 2840.00 2840.00 2840.00 2840.00 2640.00 2640.00 2690.00	0 0.0000 0.000E+00 0 0.0000 0.000E+00 0 0.0000 0.000E+00 0 0.00000 0.000E+00 0 0.0000  0.000E+00 0 0.00000 0.000E+00 0 0.00000 0.000E+00 0 0.00000 0.000E+00

334	500.0127	39/500 00 3071500 00	2000 00	_		
335	500.0128	386500.00 3871500.00 387000.00 3871500.00	2980.00	0	0.00000	0.000E+00
336	500.0129	387000.00 3871500.00 387500.00 3871500.00	2960.00 2930.00	0	0.00000	0.000E+00
337	500.0130	388000.00 3871500.00	2910.00	ŭ	0.00000	0.000E+00
338	500.0131	388500.00 3871500.00	2880.00	, v	0.00000	0.000E+00
339	500.0132	389000.00 3871500.00	2860.00	ý	0.00000 0.00000	0.000E+00
340	500.0133	389500.00 3871500.00	2840.00	ň	0.00000	0.000E+00 0.000E+00
341	500.0134	393000.00 3871500.00	2940.00	ň	0.00000	0.000E+00
342	500.0135	393500.00 3871500.00	2740.00	ň	0.00000	0.000E+00
343	500.0136	394000.00 3871500.00	2640.00	ŏ	0.00000	0.000E+00
344	500.0137	394500.00 3871500.00	2610.00	ă	0.00000	0.000E+00
345	500.0138	395000.00 3871500.00	2600.00	ă	0.00000	0.000E+00
346	500.0139	386000.00 3872000.00	3020.00	ŏ	0.00000	0.000E+00
347	500.0140	386500.00 3872000.00	3000.00	ŏ	0.00000	0.000E+00
348	500.0141	387000.00 3872000.00	2970.00	Ō	0.00000	0.000E+00
349	500.0142	387500.00 3872000.00	2940.00	0	0.00000	0.000E+00
350	500.0143	388000.00 3872000.00	2920.00	0	0.00000	0.000E+00
351 352	500.0144	388500.00 3872000.00	2900.00	0	0.00000	0.000E+00
353	500.0145	389000.00 3872000.00	2880.00	0	0.00000	0.000E+00
354	500.0146	389500.00 3872000.00	2860.00	0	0.00000	0.000E+00
355	500.0147 500.0148	393000.00 3872000.00	2760.00	Q	0.00000	0.000E+00
356	500.0149	393500.00 3872000.00	2690.00	0	0.00000	0.000E+00
357	500.0150	394000.00 3872000.00 394500.00 3872000.00	2650.00	ŭ	0.00000	0.000E+00
358	500.0151	394500.00 3872000.00 395000.00 3872000.00	2630.00	ŭ	0.00000	0.000E+00
359	500.0152	386000.00 3872500.00	2610.00 3040.00	ŭ	0.00000	0.000E+00
360	500.0153	386500.00 3872500.00	3020.00	×	0.00000 0.00000	0.000E+00
361	500.0154	387000.00 3872500.00	2990.00	ň	0.00000	0.000E+00
362	500.0155	387500.00 3872500.00	2960.00	ň	0.00000	0.000E+00 0.000E+00
363	500.0156	388000.00 3872500.00	2940.00	ň	0.00000	0.000E+00
364	500.0157	388500.00 3872500.00	2910.00	ŏ	0.00000	0.000E+00
365	500.0158	389000.00 3872500.00	2880.00	ŏ	0.00000	0.000E+00
366	500.0159	389500.00 3872500.00	2860.00	ŏ	0.00000	0.000E+00
367	500.0160	390000.00 3872500.00	2870.00	ŏ	0.00000	0.000E+00
368	500.0161	392000.00 3872500.00	2920.00	ă	0.00000	0.000E+00 .
369	500.0162	392500.00 3872500.00	2810.00	Ó	0.00000	0.000E+00
370	500.0163	393000.00 3872500.00	2720.00	Ö	0.00000	0.000E+00
371	500.0164	393500.00 3872500.00	2680.00	0	0.00000	0.000E+00
372	500.0165	394000.00 3872500.00	2660.00		0.00000	0.000E+00
373	500.0166	394500.00 3872500.00	2640.00	0	0.00000	0.000E+00
374 375	500.0167	395000.00 3872500.00	2610.00	0	0.00000	0.000E+00
376	500.0168	386000.00 3873000.00	3060.00	0	0.00000	0.000E+00
377	500.0169	386500.00 3873000.00	3040.00	0	0.00000	0.000E+00
378	500.0170	387000.00 3873000.00	3010.00	0	0.00000	0.000E+00
379	500.0171	387500.00 3873000.00	2980.00	Ō	0.00000	0.000E+00
380	500.0172 500.0173	388000.00 3873000.00	2950.00	0	0.00000	0.000E+00
381	500.0174	388500.00 3873000.00	2920.00	0	0.00000	0.000E+00
382	500.0175	389000.00 3873000.00	2900.00	9	0.00000	0.000E+00
383	500.0175	389500.00 3873000.00	2870.00	0	0.00000	0.000E+00
384	500.0177	390000.00 3873000.00 390500.00 3873000.00	2845.00	Ü	0.00000	0.000E+00
385	500.0178	390500.00 3873000.00 391000.00 3873000.00	2820.00	. 0	0.00000	0.000E+00
386	500.0179	391500.00 3873000.00	2810.00	0	0.00000	0.000E+00
387	500.0180	392000.00 3873000.00	2800.00 2760.00	ŏ	0.00000	0.000E+00
388	500.0181	392500.00 3873000.00	2740.00	ŏ	0.00000 0.00000	0.000E+00 0.000E+00
389	500.0182	393000.00 3873000.00	2710.00	ŏ	0.00000	0.000E+00
390	500.0183	393500.00 3873000.00	2680.00	ŏ	0.00000	0.000E+00
391	500.0184	394000.00 3873000.00	2660.00	ŏ	0.00000	0.000E+00
392	500.0185	394500.00 3873000.00	2640.00	ŏ	0.00000	0.000E+00
393	500.0186	395000.00 3873000.00	2620.00	Ō	0.00000	0.000E+00
394	500.0187	386000.00 3873500.00	3080.00	0	0.00000	0.000E+00
395	500.0188	386500.00 3873500.00	3050.00	0	0.00000	0.000E+00
396 397	500.0189	387000.00 3873500.00	3020.00	0	0.00000	0.000E+00
397 398	500.0190	387500.00 3873500.00	2990.00	0	0.00000	0.000E+00
399	500.0191 500.0192	388000.00 3873500.00	2960.00	Q	0.00000	0.000E+00
400	500.0192	388500.00 3873500.00	2930.00	<u>o</u>	0.00000	0.000E+00
401	500.0193	389000.00 3873500.00 389500.00 3873500.00	2900.00 2880.00	g	0.00000	0.000E+00
402	500.0195	389500.00 3873500.00 390000.00 3873500.00	2850.00 2850.00	0	0.00000	0.000E+00
403	500.0196	390500.00 3873500.00	2830.00	0	0.00000 0.00000	0.000E+00
404	500.0197	391000.00 3873500.00	2800.00	ů	0.00000	0.000E+00 0.000E+00
405	500.0198	391000.00 3873500.00 391500.00 3873500.00	2780.00	ŏ	0.00000	0.000E+00
406	500.0199	392000.00 3873500.00	2750.00	ă	0.00000	0.000E+00
407	500.0200	392500.00 3873500.00	2760.00	0	0.00000	0.000E+00
408	500.0201	393000.00 3873500.00	2720.00	0	0.00000	0.000E+00
409	500.0202	393500.00 3873500.00	2680.00	0	0.00000	0.000E+00
410 411	500.0203	394000.00 3873500.00	2700.00	0	0.00000	0.000E+00
412	500.0204 500.0205	394500.00 3873500.00	2640.00	Q	0.00000	0.000E+00
413	500.0205 500.0206	395000.00 3873500.00	2620.00	0	0.00000	0.000E+00
414	500.0206 500.0207	388000.00 3874000.00	2980.00	0	0.00000	0.000E+00
415	500.0208	388000.00 3874500.00	2980.00	U	0.00000	0.000E+00
416	500.0209	388000.00 3875000.00 388500.00 3874000.00	2990.00	Q O	0.00000	0.000E+00
417	500.0210	388500.00 3874500.00	2940.00 2950.00	0	0.00000	0.000E+00
418	500.0211	388500.00 3875000.00	2960.00	0	0.00000	0.000E+00
419	500.0212	389000.00 3874000.00	2910.00	ů	0.00000 0.00000	0.000E+00
420	500.0213	389000.00 3874500.00	2920.00	ŏ		0.000E+00
421 422 423	500.0214	389000.00 3875000.00	2920.00	ŭ	0.00000	0.000E+00
422	500.0215	389500.00 3874000.00	2880.00	ů	0.00000 0.00000	0.000E+00 0.000E+00
423	500.0216	389500.00 3874500.00	2890.00	ŏ	0.00000	0.000E+00
424 425	500.0217	389500.00 3875000.00	2900.00	ŏ	0.00000	0.000E+00
425	500.0218	390000.00 3874000.00	2860.00	ŏ	0.00000	0.000E+00
426	500.0219	390000.00 3874500.00	2860.00	ŏ	0.00000	0.000E+00
427 428	500.0220	390000.00 3875000.00	2865.00	Ō	0.00000	0.000E+00
429	500.0221 500.0222	390500.00 3874000.00	2830.00	0	0.00000	0.000E+00 0.000E+00
430	500.0222	390500.00 3874500.00 390500.00 3875000.00	2840.00	0	0.00000	0.000E+00
		390500.00 3875000.00	2840.00	. 0	0.00000	0.000E+00

431	500.0224	391000.00 3	874000.00	2800.00	0	0.00000	0.000E+00
432	500.0225		874500.00	2810,00	0	0.00000	0.000E+00
433	500.0226		875000.00	2810.00	a	0.00000	0.000E+00
434	500.0227		874000.00	2780.00	0	0.00000	0.000E+00
435	500.0228		874500.00	2780.00	0	0.00000	0.000E+00
436	500.0229		875000.00	2780.00	ā	0.00000	0.000E+00
437	500.0230		874000.00	2770.00	á	0.00000	0.000E+00
438	500.0231		874500.00	2760.00	ā	0.00000	0.000E+00
439	500.0232		875000.00	2760.00	ā	0.00000	0.000E+00
440	500.0232		874000.00	2760.00	ă	0.00000	0.000E+00
			874500.00	2780.00	ă	0.00000	0.000E+00
441	500.0234			2740.00	ž	0.00000	0.000E+00
442	500.0235		875000.00		•		
443	500,0236	393000.00 3	3874000.00	2900.00	Ü	0.00000	0.000E+00
444	500.0237	393000.00 3	3874500.00	2900.00	0	0.00000	0.000E+00
445	500.0238	393000.00 3	3875000.00	2730.00	0	0.00000	0.000E+00
446	500,0239	393500.00 3	3874000.00	2800.00	Q	0.00000	0.000E+00
447	500.0240	393500.00 3	3874500.00	2700.00	0	0.00000	0.000E+00
448	500.0241	393500.00	3875000.00	2700.00	0	0.00000	0.000E+00
449	500.0242		3874000.00	2650.00	0	0.00000	0.000E+00
450	500.0243		3874500.00	2660.00	0	0.00000	0.000E+00
	500.0244		3875000.00	2680.00	a	0.00000	0.000E+00
451	200.0244	374000.00	,	2004.00	_		

GOLDEN QUEEN MINING - SOLEDAD MIN EROJECT - ALL RECEPTORS, 1991 MET. RM10 \* GUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \*
Input File: g:\beest\GQ\\GQPMACE.GUT 11/14/96 07:00:20 Fage - 45

#### \*\*\* PATHWAY-SPECIFIC DATA \*\*\*

```
*** RISK LEVELS ***
                                                                                                                                                         1.00E-06
1.00E-07
0.50
Significant risk level Zone of impact risk level
0.50
                                                                                                                                                           20.0
70.0
Number of multipathway pollutants
Symbol and identification number
                                                                                                                                                                  27
                                                                                              - Arsenic
- Beryllium
- Cadmium
- Caldrium
- Chlorobenzene
- Chromium (hex.)
- Dioxins/Dibenzofuran
                                                                                                                                                          As
Be
Cd
CBZ
Cr
TCDD
CPHEZ
                                                                                                                                                                               10
17
22
29
36
55
33
                                                                                                    2-Chlorophenol
p-Dichlorobenzene
Hexachlorobenzene
                                                                                                                                                                               48
74
75
                                                                                                                                                           PDCB
                                                                                               - Herachlorocyclohexan BCHEX
- Lead Fh
- Mercury Hg
- NNitrosodiethylamine NNEIE
                                                                                                                                                                                83
87
                                                                                                                                                                             101
102
105
103
104
                                                                                                - NNitrosodimethylamin MNMET
- NNitrosodiphenylamin PNPHE
- NNitrosodinbutylamin NNBUT
                                                                                                    NNitrosodinpropylami NNDPP
NNitromethythylamin NNMEL
NNitrosomorpholine NNMPH
NNitrosopiperidine NNFRD
                                                                                                                                                                              106
                                                                                                                                                                              107
                                                                                                - NNitrosopiperidine NNFRD
- NNitrosopiperidine NNFDD
- Naphthalene NAPHE PAH
- Polychlor. biphenyls PCB
- Pentachlorophenol FENTA
- 2,4,5Trichlorophenol TC246
- 2,4,5Trichlorophenol TC245
                                                                                                                                                                              109
                                                                                                                                                                              110
                                                                                                                                                                              129
155
147
157
                  ** SOIL ***
  Vertical rate of deposition (Dep_rate) (m/s)
                                                                                                                                                             0.00
                                                                                                      Arsenic
                                                                                                      Beryllium
Cadmium
                                                                                                                                                             0.00
                                                                                                      Cadmium 0.00
Chlorobenzene 0.00
Chromium (hex.) 0.00
Dioxins/Dibenzofuran 0.00
2-Chlorophenol 0.00
p-Dichlorobenzene 0.00
Hexachlorobenzene 0.00
                                                                                                        Hexachlorocyclohexan
                                                                                                                                                             0.00
                                                                                                                                                              0.00
                                                                                                        Lead
                                                                                                       Mercury 0.00
NNitrosodiethylamine 0.00
NNitrosodimethylamin 0.00
                                                                                                        NNitrosodiphenylamin 0.00
NNitrosodinbutylamin 0.00
                                                                                                       NNitrosodinbutylamin 0.00
NNitrosodinpropylamin 0.00
NNitrosomorpholine 0.00
NNitrosomorpholine 0.00
NNitrosopiperidine 0.00
NNitrosopyrrolidine 0.00
Naphthalene 0.00
                                                                                                                                                               0.00
                                                                                                         Polychlor. biphenyls 0.00
Pentachlorophenol 0.00
                                                                                                        Pentachlorophenol 0.00
2,4,6Trichlorophenol 0.00
2.4,5Trichlorophenol 0.00
     Beginning of evaluation period (To) (d) End of evaluation period (Tf) (d)
                                                                                                                                                                25550.0
```

```
Soil mixing depth for human ingestion (SD) (m) Soil bulk density (BD) (kg/m3) Chemical half-life in soil (t1/2)(d) - Arsenic
                                                                                                                                                1333.0
                                                                                                                                                     1.00E+08
                                                                                                                                                     1 00E+08
                                                                                              Beryllium
                                                                                                                                                     1.00E+08
                                                                                              Cadmium
                                                                                              Chlorobenzene
                                                                                                                                                     1.50E+02
                                                                                                                                                     1.00E+08
                                                                                             Chromium (hex.)
Dioxins/Dibenzofuran
                                                                                                                                                     4.38E+03
                                                                                              2-Chlorophenol
                                                                                                                                                     7.00E+01
                                                                                              p-Dichlorobenzene
Hexachlorobenzene
                                                                                                                                                     1.80E+02
                                                                                                                                                     2.09E+03
                                                                                                                                                     1.70E+02
1.00E+08
                                                                                              Hexachlorocyclohexan
                                                                                              Lead
                                                                                              Mercury
                                                                                                                                                      1.00E+08
                                                                                              NNitrosodiethylamine
NNitrosodimethylamin
                                                                                                                                                     1.80E+02
1.80E+02
                                                                                                                                                      1.80E+02
                                                                                               NNitrosodiphenylamin
                                                                                              NNitrosodinbutylamin
                                                                                                                                                      1.80E+02
                                                                                              NNitrosodinpropylami
NNitromethyethylamin
                                                                                                                                                      1.80E+02
                                                                                                                                                      1.80E+02
                                                                                              NNitrosomorpholine
                                                                                                                                                      1.80E+02
                                                                                              NNitrosopiperidine
NNitrosopyrrolidine
Naphthalene
PAH
                                                                                                                                                      1.80E+02
                                                                                                                                                      1.80E+02
                                                                                                                                                      4.80E+02
                                                                                                                                                      4.80E+02
                                                                                               Polychlor, biphenyls
                                                                                                                                                      3.60E+03
                                                                                                                                                     1.78E+02
7.00E+01
                                                                                           - Pentachlorophenol
                                                                                           - 2,4,6Trichlorophenol
- 2,4,5Trichlorophenol
                                                                                                                                                      6.90E+02
*** WATER ***

Location (receptor *) of drinking water source

Site-specific water surface area (SA) (m2)

Site-specific water volume (WV) (kg)

Site-specific number of volume changes per year (VC)

Site-specific fraction of run-off water (ROf)

Wash coefficient-fraction of material washed by runoff (WC)

Site-specific watershed area impacted (WSIA) (m2)

Site-specific watershed area impacted (WSIA) (m2)

Site-specific watershed run-off coefficient (ROC)

*** VEGETATION ***

Location (receptor *) of crop source

Soil mixing depth (SD) for homegrown crops (m)

Interception coefficient for root crops (IFC ROOT)

Interception coefficient for vine crops (IFC VINE)

Weathering constant (k) (1/d)

O 10
             *** WATER ***
                                                                                                                                                  0.150
 Weathering constant (k) (1/d)
Crop yield (Y) (kg/m2)
Crop growth period (T) (d)
Root uptake (UF2) - ROOT
                                                                                                                                                   0.0495
                                                                                                                                                   2.0
                                                                                                                                                   90.0
                                                                                                                                                      2.00E-03
4.00E-04
                                                                                           - Arsenic
- Beryllium
- Cadmium
                                                                                                                                                       4.00E-02
                                                                                           - Chlorobenzene
                                                                                                                                                   -1.0
                                                                                           - Chromium (hex.) 1.
- Dioxins/Dibenzofuran -1.0
                                                                                                                                                       1.00E-03
                                                                                           - 2-Chlorophenol -1.0
- p-Dichlorobenzene -1.0
- Hexachlorobenzene -1.0
                                                                                            - Hexachlorocyclohexan -1.0
                                                                                                Lead
                                                                                                                                                      2.00E-03
2.00E-02
                                                                                            - Mercury
                                                                                           - Mercury 2.0

- NNitrosodiethylamin -1.0

- NNitrosodinethylamin -1.0

- NNitrosodinethylamin -1.0

- NNitrosodinbutylamin -1.0

- NNitrosodinpropylami -1.0

- NNitrosomorpholine -1.0

- NNitrosopyrrolidine -1.0

- Nnitrosopyrrolidine -1.0

- Nnitrosopyrrolidine -1.0

- Nanthalene -1.0
                                                                                            - Naphthalene -1.0
- PAH -1.0
- Polychlor. biphenyls -1.0
                                                                                            Polycnior Dipmenyls -1.0
Pentachlorophenol -1.0
-2,4,6Trichlorophenol -1.0
-2,4,5Trichlorophenol -1.0
                                                                                                                                                        4.00E-03
1.00E-03
6.00E-02
                                                                                             - Arsenic
   Root uptake (UF2) - LEAF
                                                                                                 Beryllium
Cadmium
                                                                                                 Chlorobenzene -1.0
Chromium (hex.) 8.
Dioxins/Dibenzofuran -1.0
                                                                                                                                                   -1.0
                                                                                                                                                         8.00E-04
                                                                                                 2-Chlorophenol -1.0
p-Dichlorobenzene -1.0
Hexachlorobenzene -1.0
                                                                                                 Hexachlorocyclohexan -1.0
                                                                                                                                                         5.00E-03
9.00E-02
                                                                                                  Lead
                                                                                                  Mercury
                                                                                                 NNitrosodiethylamine -1.0
NNitrosodimethylamin -1.0
NNitrosodiphenylamin -1.0
                                                                                                  NNitrosodinbutylamin -1.0
NNitrosodinpropylami -1.0
NNitromethyethylamin -1.0
                                                                                                  NNitrosomorpholine -1.0
NNitrosopiperidine -1.0
NNitrosopyrrolidine -1.0
                                                                                                  Naphthalene
                                                                                                                                                     -1.0
```

0.0100

```
PAH
                                                                   Polychlor. biphenyls -1.0
                                                                   Pentachlorophenol -1.0
2,4,6Trichlorophenol -1.0
2,4,5Trichlorophenol -1.0
                                                                                                      -1.0
                                                                                                         9.00E-04
2.00E-04
Root uptake (UF2) - VINE
                                                                   Arsenic
Beryllium
                                                                   Cadmium
                                                                                                           2.00E-02
                                                                   Cadmium
Chlorobenzene -1.0
Chromium (hex.) 6.0
Dioxins/Dibenzofuran -1.0
-1.0
                                                                                                           6.00E-04
                                                                   2-Chlorophenol
p-Dichlorobenzene
Hexachlorobenzene
                                                                    Hexachlorocyclohexan -1.0
                                                                                                           1.00E-03
3.00E-02
                                                                    Mercury
                                                                    NNitrosodiethylamine -1.0
                                                                    NNitrosodimethylamin -1.0
NNitrosodiphenylamin -1.0
                                                                    NNitrosodinbutylamin -1.0
NNitrosodinpropylami -1.0
                                                                    NNitromethyethylamin -1.0
NNitrosomorpholine -1.0
NNitrosopiperidine -1.0
                                                                                                        -1.0
                                                                    NNitrosopyrrolidine
                                                                                                        -1.0
-1.0
                                                                    Naphthalene
PAH
                                                                    Polychlor. biphenyls -1.0
Pentachlorophenol -1.0
                                                                    Pentachlorophenol -1.0
2,4,6Trichlorophenol -1.0
2,4,5Trichlorophenol -1.0
                                                                                                         -1.0
 Octanol:water partition factor (Kow) -
                                                                    Arsenic
Beryllium
                                                                                                        -1.0
                                                                                                         -1 0
                                                                     Cadmium
                                                                                                         -1.0
                                                                     Chlorobenzene
                                                                    Chromium (hex.) -1.0
Dioxins/Dibenzofuran -1.0
                                                                     2-Chlorophenol
                                                                     p-Dichlorobenzene
                                                                                                         -1.0
                                                                     Hexachlorobenzene
                                                                                                         -1.0
                                                                     Hexachlorocyclohexan -1.0
                                                                     Lead
                                                                  - Mercury
                                                                                                          -1.0
                                                                     NNitrosodiethylamine -1.0
                                                                      NNitrosodimethylamin -1.0
                                                                     NNitrosodiphenylamin -1.0
NNitrosodinbutylamin -1.0
NNitrosodinpropylami -1.0
                                                                     NNitromethyethylamin -1.0
NNitrosomorpholine -1.0
NNitrosopiperidine -1.0
                                                                                                        -1.0
                                                                      NNitrosopyrrolidine
                                                                                                          -1.0
                                                                      Naphthalene
PAH
                                                                      Polychlor. biphenyls -1.0
Pentachlorophenol -1.0
                                                                      Pentachlorophenol -1.0
2,4,6Trichlorophenol -1.0
2,4,5Trichlorophenol -1.0
   Organic carbon partition coeff (Koc) -
                                                                      Arsenic
                                                                                                          -1.0
                                                                   - Beryllium
                                                                                                          -1.0
                                                                                                           -1 0
                                                                      Cadmium
                                                                      Chlorobenzene
Chromium (hex.) -1.0
Dioxins/Dibenzofuran -1.0
-1.0
                                                                      Chlorobenzene
                                                                      2-Chlorophenol
p-Dichlorobenzene
Hexachlorobenzene
                                                                                                           -1.0
                                                                      Hexachlorocyclohexan -1.0
Lead -1.0
                                                                       Lead
                                                                      Mercury
                                                                                                           -1.0
                                                                      NNitrosodiethylamine -1.0
NNitrosodimethylamin -1.0
                                                                       NNitrosodiphenylamin -1.0
                                                                       NNitrosodinbutylamin -1.0
NNitrosodinpropylami -1.0
                                                                       NNitrosodinpropylamin -1.0
NNitrosomorpholine -1.0
NNitrosomorpholine -1.0
NNitrosopyrrolidine -1.0
                                                                       Naphthalene
PAH
                                                                                                           -1.0
-1.0
                                                                                                           -1.0
-1.0
                                                                       Polychlor. biphenyls
                                                                       Pentachlorophenol -1.0
2,4,6Trichlorophenol -1.0
2,4,5Trichlorophenol -1.0
    Fraction of organic in soil (Foc)
    Location (receptor #) of animal farm
Soil mixing depth (SD) for animal pasture (m)
Soil mixing depth (SD) for animal feed (m)
Inhalation rate (RR) (m3/d) - Cattle/Lactating
                                                                                                            0.010
                                                                                                               8.00E+01
7.00E+00
                                                                    - Pigs
- Poultry
                                                                                                                6.00E+00
                                                                                                                1.00E+02
                                                                     - Cattle/Lactating
     Water ingestion rate (WI) (kg/d)
```

- Pigs

8.00E+00

```
6.00E-01
                                                                - Poultry
                                                               - Goats/Sheep
                                                                                                          6.00E+00
0.25
Site-specific % water ingested from contaminated water (%SW)
Site-specific % diet provided by grazing (%G)
Site-specific % feed other than pasture locally grown (L)
Feed ingestion rate (FI) (kg/d) - Cattle
- Lactating
                                                                                                          0.50
                                                                                                          1.00
8.00E+00
                                                                                                          1.60E+01
                                                               - Pigs
                                                                                                          2.00E+00
3.00E-01
                                                               - Poultry
- Goats/Sheep
                                                                                                          2.00E+00
Soil ingested as % of feed ingested - Cattle/Lactating (YSf) - Pigs
                                                                                                          1.00E-02
1.00E-02
                                                                - Poultry
                                                                                                           1.00E-02
                                                               - Goats/Sheep
- Cattle/Lactating
                                                                                                          1.00E-02
5.00E-02
Soil ingested as % of pasture
                                                               - Pigs
   ingested (%Sp)
                                                                                                          3.00E-02
                                                                - Poultry
                                                                                                          3.00E-02
7.00E-02
                                                                - Goats/Sheep
Transfer coefficient of contaminant
                                                              - Arsenic
                                                                                                           2.00E-03
                                                               - Beryllium
- Cadmium
                                                                                                          1.00E-03
3.50E-04
    from diet to meat product
   (Fi_meat)
                                                                - Chlorobenzene
                                                                                                       -1.0
                                                                  Chromium (hex.)
Dioxins/Dibenzofuran
                                                                                                          9.20E-03
                                                                                                          4.00E-01
                                                                   2-Chlorophenol
                                                                                                       -1.0
                                                                                                      -1.0
-1.0
                                                                - p-Dichlorobenzene
- Hexachlorobenzene
                                                                - Hexachlorocyclohexan -1.0
                                                                                                          4.00E-04
2.70E-02
                                                                   Lead
                                                                   Mercury
                                                                - NNitrosodiethylamine -1.0
- NNitrosodimethylamin -1.0
- NNitrosodiphenylamin -1.0
                                                                   NNitrosodinbutylamin -1.0
                                                                   NNitrosodinpropylami -1.0
NNitromethyethylamin -1.0
                                                                - NNitrosomorpholine -1.0
- NNitrosopiperidine -1.0
- NNitrosopyrrolidine -1.0
                                                                - Naphthalene
                                                                                                       -1.0
                                                                - PAH
                                                                   PAH
Polychlor. biphenyls
Fentachlorophenol
2,4,6Trichlorophenol
2,4,5Trichlorophenol
-1.0
                                                                                                       -1.0
                                                                                                           9.00E-05
                                                                                                           6.20E-05
9.10E-07
                                                                   Arsenic
Beryllium
Cadmium
 Transfer coefficient of contaminant
    from diet to milk product
    (Fi_milk)
                                                                   Chlorobenzene
                                                                                                        -1.0
                                                                   Chromium (hex.)
Dioxins/Dibenzofuran
                                                                                                           1.00E-05
                                                                                                           4.00E-02
                                                                   2-Chlorophenol
                                                                                                        -1.0
                                                                                                       -1.0
-1.0
                                                                   p-Dichlorobenzene
Hexachlorobenzene
                                                                    Hexachlorocyclohexan -1.0
                                                                                                           2.60E-04
9.70E-06
                                                                    Lead
                                                                    Mercury
                                                                   NNitrosodiethylamine -1.0
NNitrosodimethylamin -1.0
NNitrosodiphenylamin -1.0
                                                                    NNitrosodinbutylamin -1.0
                                                                    NNitrosodinpropylami -1.0
NNitromethyethylamin -1.0
                                                                    MNitrosomorpholine -1.0
NNitrosopiperidine -1.0
NNitrosopyrrolidine -1.0
                                                                    Naphthalene
                                                                    PAH
Polychlor. biphenyls
Pentachlorophenol
2,4,6Trichlorophenol
4.2
2,4,5Trichlorophenol
-1.0
                                                                    PAH
                                                                                                        -1.0
                                                                                                            1.00E-02
                                                                                                            4.20E-05
                                                                    Arsenic
Beryllium
Cadmium
  Transfer coefficient of contaminant
                                                                                                            2.00E-03
                                                                                                           1.00E-03
3.50E-04
     from diet to egg product
   (Fi_egg)
                                                                     Chlorobenzene
                                                                                                         -1.0
                                                                                                            9.20E-03
                                                                    Chromium (hex.)
Dioxins/Dibenzofuran
                                                                                                            4.00E-01
                                                                     2-Chlorophenol
                                                                                                        -1.0
                                                                                                        -1.0
-1.0
                                                                     p-Dichlorobenzene
Hexachlorobenzene
                                                                     Hexachlorocyclohexan -1.0
                                                                                                            4.00E-04
2.70E-02
                                                                     Lead
Mercury
                                                                     NNitrosodiethylamine -1.0
NNitrosodimethylamin -1.0
NNitrosodiphenylamin -1.0
                                                                     NNitrosodinbutylamin -1.0
                                                                    nMitrosodinbutylamin -1.0
NNitrosodinpropylami -1.0
NNitromethyethylamin -1.0
NNitrosomorpholine -1.0
NNitrosopyredidine -1.0
NNitrosopyrrolidine -1.0
Naphthalene -1.0
PAH -1.0
                                                                     PAH
Polychlor. biphenyls 5.0
                                                                  - Pentachlorophenol
```

```
- 2,4,6Trichlorophenol 9.0
- 2,4,5Trichlorophenol -1.0
                                                                                                                   9 00E-05
- 2,4,5Trichlorophenol -1.0

Location (receptor #) of animal's water source -1

Site-specific water surface area (SA) (m2) 1000.

Site-specific water volume (WV) (kg) 2.0

Site-specific number of volume changes per year (VC) 5.0

Site-specific fraction of run-off water (ROf) -1.0

Wash coefficient-fraction of material washed by runoff (WC) -1.0

Site-specific watershed area impacted (WSIA) (m2) -1.0

Site-specific average annual rainfall (RF) (m) -1.0

Site-specific watershed run-off coefficient (ROC) -1.0
                                                                                                                1000.0
                                                                                                                  2.00E+06
Site-specific watershed run-off coefficient (ROC)
*** FISH PRODUCTS ***
                                                                                                                 -1.0
 Location (receptor #) of fish farm/pond/lake/stream
Site-specific water surface area (SA) (m2)
Site-specific water volume (WV) (kg)
Site-specific number of volume changes per year (VC)
                                                                                                                    1.50E+05
3.00E+08
                                                                                                                 5000.0
Site-specific fraction of run-off water (ROf)

Wash coefficient-fraction of material washed by runoff (WC) -1.0

Site-specific watershed area impacted (WSIA) (m2) -1.0

Site-specific watershed area impacted (WSIA) (m2) -1.0

Site-specific watershed run-off coefficient (ROC) -1.0

Bioconcentration factor (BCF) - Arsenic 4.0
                                                                      - Arsenic
- Beryllium
                                                                                                                    4.00E+00
                                                                                                                    1.90E+01
1.00E+02
                                                                          Cadmium
                                                                         Chlorobenzene
Chromium (hex.)
                                                                                                                 -1.0
                                                                                                                  2.00E+00
                                                                          Dioxins/Dibenzofuran
                                                                                                                     5.00E+03
                                                                                                                 -1.0
                                                                          2-Chlorophenol
                                                                          p-Dichlorobenzene
Hexachlorobenzene
                                                                                                                 -1.0
                                                                                                                     8.00E+03
                                                                          Hexachlorocyclohexan -1.0
                                                                                                                     1.55E+02
                                                                          Lead
                                                                          Mercury
                                                                          NNitrosodiethylamine -1.0
                                                                          NNitrosodimethylamin -1.0
NNitrosodiphenylamin -1.0
NNitrosodiphenylamin -1.0
                                                                          MNitrosophine -1.0
NNitrosophine -1.0
NNitrosophine -1.0
NNitrosophine -1.0
NNitrosophine -1.0
                                                                           NNitrosopyrolidine
Naphthalene
                                                                                                                  -1.0
                                                                                                                     1.55E+03
1.55E+03
                                                                           PAH
                                                                           PAH
Polychlor. biphenyls 1.00E+05
Pentachlorophenol -1.0
2.4,6Trichlorophenol 5.00E+02
2,4,5Trichlorophenol -1.0
  *** DERMAL ABSORPTION PATHWAY ***
Surface area of exposed skin (SA) (cm2)
Soil loading on skin (SL)
                                                                                                                   4656.0
                                                                                                                  0.50
1.00E-03
1.00E-03
   Fraction absorbed across skin (ABS)
                                                                      - Arsenic
                                                                           Beryllium
                                                                                                                      2.00E-03
                                                                            Cadmium
                                                                            Chlorobenzene
                                                                                                                      1.00E-01
                                                                                                                      1.00E-02
2.00E-02
                                                                           Chromium (hex.)
                                                                            Dioxins/Dibenzofuran
                                                                           2-Chlorophenol
                                                                                                                       1.00E-01
                                                                            p-Dichlorobenzene
Hexachlorobenzene
                                                                                                                      1.00E-01
                                                                                                                       1.00E-01
                                                                            Hexachlorocyclohexan
                                                                                                                      1.00E-01
                                                                            Lead
                                                                                                                       1 00E-03
                                                                                                                       1.00E-02
                                                                            Mercury
                                                                            NNitrosodiethylamine
                                                                                                                       1.00E-01
                                                                            MNitrosodimethylamin
MNitrosodiphenylamin
MNitrosodinbutylamin
                                                                                                                      1.00E-01
1.00E-01
                                                                                                                       1.00E-01
                                                                                                                       1.00E-01
                                                                            NNitrosodinpropylami
                                                                            NNitrosethyethylamin
NNitrosemorpholine
                                                                                                                       1.00E-01
                                                                                                                       1.00E-01
                                                                                                                       1.00E-01
                                                                            NNitrosopiperidine
                                                                            NNitrosopyrrolidine
Naphthalene
                                                                                                                        1.00E-01
                                                                                                                        3.00E-02
                                                                                                                       3.00E-02
1.50E-01
                                                                             PAĤ
                                                                             Polychlor. biphenyls
                                                                             Pentachlorophenol
                                                                                                                        1.00E-01
                                                                             2,4,6Trichlorophenol
2,4,5Trichlorophenol
                                                                                                                       1.00E-01
1.00E-01
              *** SOIL INGESTION PATHWAY ***
    Lifetime average soil ingestion rate
Gastrointestinal absorption factor
(GI)
                                                                         per day (Is) (mg/d)
                                                                                                                    110.0
                                                                                                                        1.00E+00
1.00E+00
                                                                             Arsenic
                                                                             Beryllium
                                                                                                                        1.00E+00
                                                                             Cadmium
                                                                                                                        1.00E+00
                                                                             Chlorobenzane
                                                                             Chromium (hex.)
Dioxins/Dibenzofuran
                                                                                                                        1.00E+00
                                                                                                                        1.00E+00
                                                                             2-Chlorophenol
p-Dichlorobenzene
Hexachlorobenzene
                                                                                                                        1.00E+00
                                                                                                                        1.00E+00
                                                                                                                        1.00E+00
                                                                                                                        1.00E+00
                                                                              Hexachlorocyclohexan
                                                                                                                         1.00E+00
                                                                              Lead
                                                                                                                         1.00E+00
                                                                              Mercury
                                                                              NNitrosodiethylamine
NNitrosodimethylamin
                                                                                                                         1.00E+00
                                                                                                                         1.00E+00
                                                                              NNitrosodiphenylamin
                                                                                                                         1.00E+00
                                                                              NNitrosodinbutylamin
                                                                                                                         1.00E+00
                                                                              NNitrosodinpropylami
                                                                                                                         1.00E+00
```

```
1.00E+00
                                                                                                       NNitromethyethylamin
                                                                                                      NNitrosomorpholine
NNitrosopiperidine
NNitrosopyrrolidine
                                                                                                                                                                   1.00E+00
1.00E+00
                                                                                                                                                                    1.00E+00
                                                                                                                                                                    1.00E+00
1.00E+00
                                                                                                      Naphthalene
PAH
                                                                                                                                                                    1.00E+00
                                                                                                       Polychlor. biphenyls
                                                                                                      Pentachlorophenol
2,4,6Trichlorophenol
2,4,5Trichlorophenol
                                                                                                                                                                    1.00E+00
1.00E+00
                                                                                                                                                                     1.00E+00
                                                                                                      Arsenic
Beryllium
                                                                                                                                                               1.0
Bioavailability factors (BIO)
                                                                                                                                                               1.0
                                                                                                       Cadmium
                                                                                                                                                               1.0
                                                                                                       Chlorobenzene
                                                                                                                                                               1.0
                                                                                                       Chromium (hex.)
                                                                                                       Dioxins/Dibenzofuran
                                                                                                                                                                     4.30E-01
                                                                                                                                                              1.0
                                                                                                       2-Chlorophenol
                                                                                                       p-Dichlorobenzene
Hexachlorobenzene
                                                                                                                                                               1.0
                                                                                                       Hexachlorocyclohexan 1.0
                                                                                                                                                               1.0
                                                                                                       Lead
                                                                                                        Mercury
                                                                                                       NNitrosodiethylamine 1.0
NNitrosodimethylamin 1.0
                                                                                                        NNitrosodiphenylamin
                                                                                                       NNitrosodinbutylamin 1.0
NNitrosodinpropylami 1.0
                                                                                                        NNitromethyethylamin
                                                                                                       NNitrosomorpholine
NNitrosopiperidine
NNitrosopyrrolidine
                                                                                                                                                               1.0
                                                                                                   - Naphthalene
- PAH
                                                                                                                                                                1.0
                                                                                                                                                                1.0
                                                                                                   - Polychlor. biphenyls 1.0
                                                                                                   Pentachlorophenol 1.0
- 2,4,6Trichlorophenol 1.0
- 2,4,5Trichlorophenol 1.0
*** WATER INGESTION PATHWAY ***
Lifetime average water ingestion rate per day (Iw) (1/d)
*** FOOD INGESTION - FLANT PRODUCTS PATHWAY ***
Site-specific fraction of root vegetable homegrown (L_Ir)
Site-specific fraction of leafy veget homegrown (L_vine)
Daily consumption rate of root vegetable (IF_Ir) (kg/d)
Daily consumption rate of root vegetable (IF_Ir) (kg/d)
Daily consumption rate of leafy veget (IF leafy) (kg/d)
Daily consumption rate of vine veget (IF vine) (kg/d)
*** FOOD INGESTION - ANIMAL PRODUCTS PATHWAY ***
Site-specific fraction of milk locally produced (L_Im)
Site-specific fraction of milk from cows
Site-specific fraction of meat locally produced (L_Ib)
Site-specific fraction of meat from cows
Site-specific fraction of meat from pigs
              *** WATER INGESTION PATHWAY ***
                                                                                                                                                                0.150
0.150
0.150
                                                                                                                                                                0.050
                                                                                                                                                                 0.250
                                                                                                                                                                 0.00
                                                                                                                                                                 0.00
                                                                                                                                                                 0.00
                                                                                                                                                                 0.50
 Site-specific fraction of meat from cows
Site-specific fraction of meat from pigs
Site-specific fraction of meat from poultry
Site-specific fraction of meat from goats/sheep
Site-specific fraction of eggs locally produced
Site-specific fraction of fish locally produced (L_Ifi)
Daily consumption rate of milk (IF Lm) (kg/d)
Daily consumption rate of meat (IF Lb) (kg/d)
Daily consumption rate of egg (kg/d)
Daily consumption rate of fish (IF Ifi) (kg/d)

*** MOTHER'S MILK PATHWAY ***

Beginning of exposure period for mother (d)
                                                                                                                                                                 0.00
                                                                                                                                                                  0.50
                                                                                                                                                                 0.00
                                                                                                                                                                 1.00
                                                                                                                                                                  0.00
                                                                                                                                                                  0 30
                                                                                                                                                                  0.10
                                                                                                                                                                  0.05
                                                                                                                                                                  0.023
 Beginning of exposure period for mother (d)
End of exposure period for mother (d)
Daily breast-milk ingestion rate (DERm) (kg/d)
Frequency of exposure (F) (d)
Period of exposure (YR) (yr)
Infant average body weight (ABS) (kg)
Frequency of contaminant partitioned to mother'
                                                                                                                                                                  0.0
                                                                                                                                                                  9490.0
                                                                                                                                                                  0.90
365.0
                                                                                                                                                                   1.00
                                                                                                                                                                  6.50
   Fraction of contaminant partitioned to mother's fat (f1)
Percent fat of mother's milk (f3)
Percent mother's weight that is fat (f2)
Contaminant half-life in mother - Arsenic
                                                                                                                                                                  0.90
                                                                                                                                                                   0.040
                                                                                                                                                                  0.330
         (t1/2)(d)
                                                                                                          Beryllium
                                                                                                                                                                  -1.0
-1.0
                                                                                                           Cadmium
                                                                                                           Chlorobenzene
                                                                                                          Chromium (hex.) -1.0
Dioxins/Dibenzofuran 2117.00
2-Chlorophenol -1.0
p-Dichlorobenzene -1.0
Eaxachlorobenzene -1.0
                                                                                                           Hexachlorocyclohexan -1.0
                                                                                                           Lead
                                                                                                           Mercury
                                                                                                           NNitrosodiethylamine -1.0
                                                                                                           NNitrosodimethylamin -1.0
NNitrosodiphenylamin -1.0
                                                                                                           NNitrosodinbutylamin -1.0
                                                                                                            NNitrosodinpropylami -1.0
                                                                                                           NNitromethyethylamin -1.0
NNitrosomorpholine -1.0
                                                                                                            NNitrosomorpholine
                                                                                                            NNitrosopiperidine
NNitrosopyrrolidine
                                                                                                           Naphthalene
PAH
                                                                                                                                                                     -1.0
                                                                                                           Polychlor. biphenyls 1460.0
Pentachlorophenol -1.0
```

- 2,4,6Trichlorophenol -1.0

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, PM10 \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS, 93288 \* Input File: g:\beest\GQ\GQ\pmACE.OUT 11/14/96 07:00:20 Fage - 55

### \*\*\* PREDICTED FEAK 1-SOUR CONCENTRATIONS (ug/m3) FROM ALL SOURCES \*\*\*

RECEPTOR	ACETA	ACROL	As	BENZE	Ве	Cq	Cz	Cu	ECEO	BCN
1 2	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.247E-02 9.295E-03	0.000E+00 0.000E+00	1.445E-02 1.080E-02	4.592E-04 3.421E-04	1.418E-04 1.059E-04	1.076E-03 8.028E-04	0.000E+00 0.000E+00	7.196E+00 4.589E+00
3	0.000E+00	0.000E+00	9.478E-03	0.000E+00	1.101E-02	3.520E-04	1.080E-04	8.186E-04	0.000E+00	4.516E+00
4 5	0.000E+00	0.000E+00	1.605E-02	0.000E+00	1.866E-02	5.616E-04	1.827E-04	1.385E-03	0.000E+00	8.406E+00
6	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.553E-02 1.514E-02	0.000E+00 0.000E+00	1.806E-02 1.760E-02	5.612E-04 5.702E-04	1.768E-04 1.724E-04	1.340E-03 1.307E-03	0.000E+00 0.000E+00	8.085E+00 7.626E+00
7	0.000E+00	0.000E+00	1.179E-02	0.000E+00	1.374E-02	4.497E-04	1.347E-04	1.018E-03	0.000E+00	4.229E+00
8 9	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.143E-02	0.000E+00	1.328E-02	4.112E-04	1.302E-04 1.363E-04	9.873E-04	0.000E+00	4.339E+00
1Ó	0.000E+00	0.000E+00	1.195E-02 1.819E-02	0.000E+00 0.000E+00	1.390E-02 2.105E-02	4.414E-04 6.364E-04	2.066E-04	1.033E-03 1.570E-03	0.000E+00 0.000E+00	4.446E+00 1.444E+01
11	0.000E+00	0.000E+00	1.040E-02	0.000E+00	1.210E-02	3.649E-04	1.185E-04	8.979E-04	0.000E+00	7.768E+00
12 13	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.419E-02 4.825E-02	0.000E+00 0.000E+00	2.813E-02 5.617E-02	8.46ZE-04 2.242E-03	2.754E-04 5.549E-04	2.088E-03 4.164E-03	0.000E+00 0.000E+00	2.622E+01 1.466E+01
14	0.000E+00	0.000E+00	4.973E-02	0.000E+00	5.793E-02	2.539E-03	5.742E-04	4.292E-03	0.000E+00	1.427E+01
15	0.000E+00	0.000E+00	5.030E-02	0.000E+00	5.863E-02	2.634E-03	5.816E-04	4.342E-03	0.000E+00	1.283E+01
16 17	0.000E+00 0.000E+00	0.000E+00 0.000E+00	5.105E-02 1.722E-02	0.000E+00 0.000E+00	5.955E-02 1.997E-02	2.480E-03 6.024E-04	5.8872-04 1.958E-04	4.407E-03 1.486E-03	0.000E+00 0.000E+00	1.611E+01 1.468E+01
18	0.000E+00	0.000E+00	1.350E-02	G.000E+00	1.568E-02	4.7222-04	1.536E-04	1.165E-03	0.000E+00	1.529E+01
19 20	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.520E-02 1.565E-02	0.000E+00 0.000E+00	1.765E-02 1.816E-02	5.319E-04 5.472E-04	1.730E-04 1.779E-04	1.312E-03 1.350E-03	0.000E+00 0.000E+00	1.481E+01 1.899E+01
21	0.000E+00	0.000E+00	3.823E-02	0.000E+00	4.342E-02	1.338E-03	4.302E-04	3.297E-03	0.000E+00	3.376E+01
22	0.000E+00	0.000E+00	3.547E-02	0.0002+00	4.044E-02	1.241E-03	3.999E-04	3.060E-03	0.000E+00	3.397E+01
23 24	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.142E-02 5.390E-02	0.000E+00 0.000E+00	4.768E-02 6.216E-02	1.449E-03 1.886E-03	4.692E-04 6.111E-04	3.574E-03 4.651E-03	0.000E+00 0.000E+00	3.660E+01 3.755E+01
25	0.000E+00	0.000E+00	5.662E-02	0.000E+00	6.527E-02	1.981E-03	6.418E-04	4.885E-03	0.000E+00	3.761E+01
26	0.000E+00	0.000E+00	4.988E-02	0.000E+00	5.794E-02	1.950E-03	5.695E-04	4.305E-03	0.000E+00	4.048E+01
27 28	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.754E-02 3.860E-02	0.000E+00 0.000E+00	4.422E-02 4.473E-02	1.483E-03 1.350E-03	4.317E-04 4.388E-04	3.241E-03 3.331E-03	0.000E+00 0.000E+00	2.453E+01 2.567E+01
29	0.000E+00	0.000E+00	5.981E-02	0.000E+00	6.926E-02	2.092E-03	6.795E-04	5.161E-03	0.000E+00	2.895E+01
30	0.000E+00	0.000E+00	6.826E-02	0.000E+00	7.931E-02	2.387E-03	7.768E-04	5.891E-03	0.000E+00	3.080E+01
31 32	0.000E+00 0.000E+00	0.000E+00 0.000E+00	6.526E-02 5.406E-02	0.000E+00 0.000E+00	7.594E-02 6.303E-02	2.282E-03 1.891E-03	7.432E-04 6.163E-04	5.632E-03 4.666E-03	0.000E+00 0.000E+00	3.607E+01 4.389E+01
33	0.000E+00	0.000E+00	5.101E-02	0.000E+00	5.952E-02	2.040E-03	5.841E-04	4.403E-03	0.000E+00	4.429E+01
34 35	0.000E+00 0.000E+00	0.000E+00 0.000E+00	5.153E-02 3.538E-02	0.000E+00 0.000E+00	6.001E-02 4.099E-02	1.916Z-03 1.237E-03	5.881E-04 4.020E-04	4.448E-03 3.053E-03	0.000E+00	4.528E+01
36	0.000E+00	0.000E+00	2.912E-02	0.000E+00	3.376E-02	1.019E-03	3.310E-04	2.513E-03	0.000E+00 0.000E+00	4.364E+01 4.184E+01
37	0.000E+00	0.000E+00	3.171E-02	0.000E+00	3.686E-02	1.109E-03	3.609E-04	2.737E-03	0.000E+00	3.997E+01
38 39	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.616E-02 1.742E-02	0.000E+00 0.000E+00	1.873E-02 2.019E-02	5.651E-04 6.095E-04	1.836Z-04 1.980E-04	1.394E-03 1.504E-03	0.000E+00 0.000E+00	3.986E+01 4.475E+01
40	0.000E+00	0.000E+00	1.890E-02	0.000E+00	2.188E-02	6.612E-04	2.147E-04	1.631E-03	0.000E+00	4.465E+01
41 42	0.000E+00	0.000E+00	2.429E-02	0.000E+00	2.809E-02	6.293E-03	2.758E-04	2.096E-03	0.000E+00	3.741E+01
43	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.521E-02 1.336E-02	0.000E+00 0.000E+00	2.897E-02 1.521E-02	1.841E-03 1.321E-03	2.853E-04 1.505E-04	2.175E-03 1.152E-03	0.000E+00 0.000E+00	2.004E+01 2.094E+01
44	0.000E+00	0.000E+00	9.444E-03	0.000E+00	1.107E-02	3.127E-03	1.094E-04	8.183E-04	0.000E+00	2.178E+01
45 46	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.196E-02 1.118E-02	0.000E+00 0.000E+00	1.376E-02 1.284E-02	4.341E-04 4.055E-04	1.354E-04 1. <del>265E-</del> 04	1.032E-03 9.644 <del>E-</del> 84	0.000E+00 0.000E+ <del>00</del>	2.0662+01 1.927E+01
47	0.000E+00	0.000E+00	1.255E-02	0.000E+00	1.430E-02	1.011E-03	1.422E-04	1.084E-03	0.000E+00	1.619E+01
48	0.000E+00	0.000E+00	1.653E-02	0.000E+00	1.907E-02	7.275E-04	1.876E-04	1.427E-03	0.000E+00	1.309E+01
49 50	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.326E-02 1.564E-02	0.000E+00 0.000E+00	1.514E-02 1.787E-02	1.096E-03 1.656E-03	1.517E-04 1.781E-04	1.146E-03 1.354E-03	0.000E+00 0.000E+00	1.078E+01 9.421E+00
51	0.000E+00	0.00CE+00	1.552E-02	0.000E+00	1.791E-02	Z.556E-03	1.781E-04	1.344E-03	0.000E+00	9.681E+00
52 53	0.0005+00	0.000E+00	1.314E-02	0.000E+00	1.519E-02	1.390E-03	1.511E-04	1.137E-03	0.000E+00	9.715E+00
. 53 54	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.036E-02 1.087E-02	0.000E+00 0.000E+00	1.190E-02 1.252E-02	4.850E-04 1.896E-03	1.172E-04 1.237E-04	8.937E-04 9.391E-04	0.000E+00 0.000E+00	1.017E+01 1.036E+01
55	0.000E+00	0.000E+00	1.331E-02	0.000E+00	1.542E-02	1.827E-03	1.530E-04	1.152E-03	0.000E+00	8.870E+00
56 57	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.532E-02 1.694E-02	0.000E+00 0.000E+00	1.771E-02 1.967E-02	1.738E-03 6.857E-04	1.749E-04 1.929E-04	1.325E-03 1.463E-03	0.000E+00 0.000E+00	8.151E+00 7.381E+00
รี่8	0.000E+00	0.000E+00	1.824E-02	0.000E+00	2.123E-02	6.833E-04	2.078E-04	1.575E-03	0.000E+00	7.228E+00
59	0.000E+00	0.000E+00	2.012E-02	0.000E+00	2.347E-02	1.969E-03	2.294E-04	1.738E-03	0.000E+00	7.080E+00
60 61	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.355E-02 4.118E-02	0.000E+00 0.000E+00	2.748E-02 4.712E-02	9.154E-04 1.768E-03	2.694E-04 4.679E-04	2.035E-03 3.559E-03	0.000E+00 0.000E+00	6.963E+00 6.812E+00
62	0.000E+00	0.000E+00	4.503E-02	0.000E+00	5.118E-02	1.912E-03	5.099E-04	3.891E-03	0.000E+00	6.681E+00
63 64	0.000E+00 0.000E+00	0.000E+00	3.032E-02 2.731E-02	0.000E+00	3.529E-02 3.178E-02	1.060E-03 2.485E-03	3.453E-04 3.110E-04	2.619E-03 2.357E-03	0.000E+00 0.000E+00	6.566E+00 6.195E+00
65	0.000E+00	0.000E+00 0.000E+00	1.992E-02	0.000E+00 0.000E+00	2.302E-02	1.155E-03	2.270E-04	1.721E-03	0.000E+00	6.123E+00
66	0.000E+00	0.000E+00	2.351E-02	0.000E+00	2.708E-02	9.327E-04	2.664E-04	2.031E-03	0.000E+00	6.048E+00
67 68	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.979E-02 1.779E-02	0.000E+00 0.000E+00	2.305E-02 2.020E-02	8.800E-04 3.188E-03	2.255E-04 2.001E-04	1.710E-03 1.534E-03	0.000E+00 0.000E+00	5.983E+00 6.223E+00
69	0.000E+00	0.000E+00	2.664E-02	0.000E+00	3.063E-02	1.212E-03	3.016E-04	2.298E-03	0.000E+00	6.953E+00
70	0.000E+00	0.000E+00	3.176E-02	0.000E+00	3.667E-02	1.274E-03	3.619E-04	2.741E-03	0.000E+00	7.957E+00
71 72	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.328E-02 2.458E-02	0.000E+00 0.000E+00	4.895E-02 2.849E-02	1.818E-03 9.776E-04	4.860E-04 2.805E-04	3.743E-03 2.121E-03	0.000E+00 0.000E+00	8.086E+00 8.199E+00
73	0.000E+00	0.000E+00	1.651E-02	0.000E+00	1.904E-02	1.970E-03	1.875E-04	1.425E-03	0.000E+00	8.231E+00
74	0.000E+00	0.000E+00	2.083E-02	0.000E+00	2.416E-02	8.188E-04	2.377E-04	1.799E-03	0.000E+00	8.229E+00 9.217E+00
75 76	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.643E-02 1.683E-02	0.000E+00 0.000E+00	1.903E-02 1.946E-02	1.921E-03 8.936E-04	1.885E-04 1.911E-04	1.419E-03 1.453E-03	0.000E+00 0.000E+00	9.21/E+00 9.818E+00
77	0.000E+00	0.000E+00	1.861E-02	0.000E+00	2.155E-02	7.720E-04	2.114E-04	1.606E-03	0.000E+00	1.056E+01
78 79	0.000E+00	0.000E+00	1.842E-02	0.000E+00	2.142E-02	1.855E-03	2.097E-04	1.590E-03	0.000E+00	1.063E+01
79 80	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.066E-02 2.129E-02	0.000E+00 0.000E+00	2.403E-02 2.474E-02	2.10ZE-03 1.096E-03	2.352E-04 2.423E-04	1.783E-03 1.837E-03	0.000E+00 0.000E+00	1.138E+01 1.239E+01
81	0.000E+00	0.000E+00	1.962E-02	0.000E+00	2.273E-02	9.494E-04	2.23GE-04	1.693E-03	0.000E+00	1.3575+01
82	0.000E+00	0.000E+00	1.858E-02	0.000E+00	2.140E-02	6.500E-04	2.105E-04	1.603E-03	0.000E+00	1.505E+01

	0.000E+00	0.000E+00	2.062E-02	0.000E+00	2.374E-02	7.214E-04	2.336E-04	1.779E-03	0.000E+00	1.700E+01
	0.000E+00	0.000E+00	2.138E-02	0.000E+00	2.461E-02	7.480E-04	2.422E-04	1.845E-03	0.000E+00	2.001E+01
	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.931E-02	0.000E+00	3.382E-02	1.025E-03	3.324E-04	2.529E-03	0.000E+00	2.545E+01
	0.000E+00	0.000E+00	6.165E-02 5.620E-02	0.000E+00 0.000E+00	7.069E-02 6.469E-02	2.157E-03	6.971E-04 6.367E-04	5.319E-03	0.000E+00	4.141E+01
	0.000E+00	0.000E+00	5.444E-02	0.000E+00	6.292E-02	1.966E-03 1.904E-03	6.1792-04	4.849E-03 4.698E-03	0.000E+00 0.000E+00	3.89ZE+01 4.017E+01
	0.000E+00	0.0002+00	5.266E-02	0.000E+00	6.101E-02	1.842E-03	5.984E-04	4.545E-03	0.000E+00	3.082E+01
	0.000E+00	0.000E+00	4.649E-02	0.000E+00	5.392E-02	1.626E-03	5.286E-04	4.012E-03	0.000E+00	3.201E+01
	0.000E+00	0.000E+00	1.637E-02	0.000E+00	1.897E-02	5.910E-04	1.862E-04	1.414E-03	0.000E+00	5.940E+00
	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.699E-02	0.000E+00	1.971E-02	6.456E-04	1.937E-04	1.468E-03	0.000E+00	5.686E+00
	0.000E+00	0.000E+00	1.627E-02 1.699E-02	0.000E+00 0.000E+00	1.886E-02	6.669E-04	1.858E-04	1.405E-03	0.000E+00	5.466E+00
	0.000E+00	0.000E+00	1.810E-02	0.000E+00	1.983E-02 2.114E-02	6.806E-04 6.727E-04	1.939E-04 2.067E-04	1.467E-03 1.563E-03	0.000E+00 0.000E+00	5.385E+00
	0.000E+00	0.000E+00	1.830E-02	0.000E+00	2.116E-02	6.647E-04	2.078E-04	1.580E-03	0.000E+00	5.415E+00 5.441E+00
97	0.000E+00	0.000E+00	2.187E-02	0.000E+00	2.537E-02	7.668E-04	2.487E-04	1.888E-03	0.000E+00	5.477E+00
	0.000E+00	0.000E+00	2.471E-02	0.000E+00	2.854E-02	8.645E-04	2.804E-04	2.132E-03	0.000E+00	5.520E+00
	0.000E+00	0.000E+00	2.134E-02	0.000E+00	2.482E-02	7.675E-04	2.432E-04	1.843E-03	0.000E+00	5.560E+00
	0.000E+00 0.000E+00	0.000E+00	2.258E-02	0.000E+00	2.604E-02	7.914E-04	2.560E-04	1.948E-03	0.000E+00	5.599E+00
	0.000E+00	0.000E+00 0.000E+00	2.093E-02 2.362E-02	0.000E+00 0.000E+00	2.436E-02 2.752E-02	1.385E-03	2.384E-04	1.806E-03	0.000E+00	5.646E+00
	0.000E+00	0.000E+00	1.671E-02	0.000E+00	1.935E-02	8.260E-04 6.167E-04	2.692E-04 1.901E-04	2.040E-03 1.444E-03	0.000E+00 0.000E+00	5.712E+00
	0.000E+00	0.000E+00	1.583E-02	0.000E+00	1.832E-02	6.394E-04	1.806E-04	1.369E-03	0.000E+00	5.890E+00 5.653E+00
	0.000E+G0	0.000E+00	1.688E-02	0.000E+00	1.970E-02	6.474E-04	1.926E-04	1.458E-03	0.000E+00	5.488E+00
106	0.000E+00	0.000E+00	1.841E-02	0.000E+00	2.149E-02	1.125E-03	2.101E-04	1.590E-03	0.000E+00	5.523E+00
	0.000E+00	0.000E+00	2.027E-02	0.000E+00	2.345E-02	9.343E-04	2.302E-04	1.749E-03	0.000E+00	5.555E+00
108 109	0.000E+00 0.000E+00	0.000E+00	2.279E-02	0.000E+00	2.642E-02	7.982E-04	2.591E-04	1.967E-03	0.000E+00	5.564E+00
	0.000E+00	0.000E+00 0.000E+00	2.439E-02 2.382E-02	0.000E+00 0.000E+00	2.834E-02 2.772E-02	9.0902-04 1.203E-03	2.776E-04	2.105E-03	0.000E+00	5.628E+00
	0.000E+00	0.000E+00	2.008E-02	0.000E+00	2.337E-02	1.025E-03	2.714E-04 2.291E-04	2.057E-03 1.736E-03	0.000E+00 0.000E+00	5.668E+00 5.709E+00
112	0.900E+00	0.000E+00	2.267E-02	0.000E+00	2.639E-02	1.327E-03	2.583E-04	1.957E-03	0.000E+00	5.753E+00
113	0.000E+00	0.000E+00	2.610E-02	0.000E+00	3.043E-02	1.542E-03	2.975E-04	2.253E-03	0.000E+00	5.794E+00
114	0.000E+00	0.000E+00	2.729E-02	0.000E+00	3.183E-02	9.5442-04	3.112E-04	2.357E-03	0.000E+00	5.871E+00
111 112 113 114 115 116 117	0.000E+00	0.000E+00	1.520E-02	0.000E+00	1.754E-02	6.810E-04	1.729E-04	1.314E-03	0.000E+00	5.861E+00
117	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.664E-02 1.859E-02	0.000E+00 0.000E+00	1.942E-02 2.170E-02	9.961E-04	1.898E-04	1.437E-03	0.000E+00	5.607E+00
118	0.000E+00	0.000E+00	2.154E-02	0.000E+00	2.491E-02	1.172E-03 1.742E-03	2.121E-04 2.446E-04	1.605E-03 1.859E-03	0.000E+00 0.000E+00	5.638E+00
119	0.000E+00	0.000E+00	2.529E-02	0.000E+00	2.931E-02	2.44ZE-03	2.874E-04	2.183E-03	0.000E+00	5.674E+00 5.712E+00
120	0.000E+00	0.000E+00	2.676E-02	0.000E+00	3.110E-02	1.684E-03	3.046E-04	2.310E-03	0.000E+00	5.745E+00
120 121 122	0.000E+00	0.000E+00	2.533E-02	0.000E+00	2.947E-02	1.253E-03	2.885E-04	2.188E-03	0.000E+00	5.785E+00 "
122	0.000E+00	0.000E+00	2.237E-02	0.000E+00	2.604E-02	1.902E-03	2.551E-04	1.933E-03	0.000E+00	5.830E+00
123	0.000E+00	0.000E+00	2.421E-02	0.000E+00	2.819E-02	1.861E-03	2.758E-04	2.090E-03	0.000E+00	5.871E+00
124 125	0.000E+00 0.000E+00	0.000E+00	2.710E-02	0.0002+00	3.159E-02	1.999E-03	3.089E-04	2.339E-03	0.000E+00	5.942E+00
126	0.000E+00	0.000E+00 0.000E+00	2.830E-02 2.948E-02	0.000E+00 0.000E+00	3.300E-02 3.439E-02	9.896E-04	3.226E-04	2.444E-03	0.000E+00	5.992E+00
127	0.000E+00	0.000E+00	1.629E-02	0.000E+00	1.899E-02	1.031E-03 1.413E-03	3.361E-04 1.857E-04	2.546E-03	0.000E+00	6.040E+00
128	0.000E+00	0.000E+00	1.864E-02	0.000E+00	2, 175E-02	1.660E-03	2.126E-04	1.407E-03 1.610E-03	0.000E+00 0.000E+00	5.806E+00 5.767E+00
129	0.000E+00	0.000E+00	2.218E-02	0.000E+00	2.559E-02	2.339E-03	2.515E-04	1.914E-03	0.000E+00	5.810E+00
130	0.000E+00	0.000E+00	2.46ZE-02	0.000E+00	2.845E-02	8.611E-04	2.794E-04	2.126E-03	0.000E+00	5.862E+00
131	0.000E+00	0.000E+00	2.240E-02	0.000E+00	2.590E-02	9.492E-04	2.552E-04	1.935E-03	0.000E+00	5.885E+00
132 133	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.773E-02	0.000E+00	3.226E-02	2.393E-03	3.166E-04	2.395E-03	0.000E+00	5.941E+00
134	0.000E+00	0.000E+00	2.418E-02 2.466E-02	0.000E+00 0.000E+00	2.815E-02 2.870E-02	2.071E-03	2.758E-04	2.090E-03	0.000E+00	5.957E+00
135	0.000E+00	0.000E+00	2.691E-02	0.000E+00	3.136E-02	9.988E-04 9.413E-04	2.808E-04 3.067E-04	2.128E-03 2.323E-03	0.000E+00 0.000E+00	6.022E+00 6.079E+00
136	0.000E+00	0.000E+00	3.647E-02	0.000E+00	4.093E-02	1.632E-03	4.112E-04	3.152E-03	0.000E+00	6.123E+00
137	0.000E+00	0.000E+00	3.125E-02	0.000E+00	3.648E-02	1.404E-03	3.565E-04	2.700E-03	0.000E+00	6.171E+00
138	0.000E+00	0.000E+00	3.141E-02	G.000E+00	3.528E-02	1.435E-03	3.545E-04	2.715E-03	0.000E+00	6.222E+00
139 140	0.000E+00	0.000E+00	1.861E-02	0.000E+00	2.167E-02	2.951E-03	2.120E-04	1.608E-03	0.000E+00	5.950E+00
141	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.194E-02 2.513E-02	0.000E+00 0.000E+00	2.522E-02	8.498E-04	2.483E-04	1.893E-03	0.000E+00	5.963E+00
142	0.000E+00	0.000E+00	2.490E-02	0.000E+00	2.895E-02 2.605E-02	8.793E-04 1.370E-03	2.848E-04 2.738E-04	2.171E-03 2.154E-03	0.000E+00	5.995E+00
143	0.000E+00	0.000E+00	2.350E-02	0.000E+00	2.475E-02	1.291E-03	2.589E-04	2.032E-03	0.000E+00 0.000E+00	6.017E+00 6.076E+00
144	0.000E+00	0.000E+00	2.469E-02	0.000E+00	2.872E-02	9.593E-04	2.820E-04	2.134E-03	0.000E+00	6.128E+00
145	0.000E+00	0.000E+00	2.621E-02	0.000E+00	3.050E-02	1.124E-03	2.985E-04	2.262E-03	0.000E+00	6.169E+00
146	0.000E+00	0.000E+00	2.779E-02	0.000E+00	3.236E-02	9.718E-04	3.166E-04	2.398E-03	0.000E+00	6.223E+00
147 148	0.000E+00	0.000E+00	3.197E-02	0.000E+00	3.729E-02	1.446E-03	3.645E-04	2.761E-03	0.000E+00	6.271E+00
149	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.011E-02 4.132E-02	0.000E+00 0.000E+00	4.525E-02	1.761E-03	4.518E-04	3.466E-03	0.000E+00	6.321E+00
150	0.000E+00	0.000E+00	3.998E-02	0.000E+00	4.684E-02 4.551E-02	1.763E-03 1.703E-03	4.668E-04 4.524E-04	3.570E-03	0.000E+00 0.000E+00	6.372E+00
151	0.000E+00	0.000E+00	2.871E-02	0.000E+00	3.342E-02	1.004E-03	3.270E-04	3.454E-03 2.478E-03	0.000E+00	6.412E+00 6.380E+00
152	0.000E+00	0.000E+00	3.874E-02	0.000E+00	4.320E-02	1.777E-03	4.358E-04	3.348E-03	0.000E+00	6.425E+00
153 154	0.000E+00	0.000E+00	4.403E-02	0.000E+00	4.953E-02	1.889E-03	4.962E-04 3.347E-04	3.804E-03	0.000E+00	6.480E+00
154	0.000E+00	0.000E+00	2.935E-02	0.000E+00	3.426E-02	1.077E-03	3.347E-04	3.804E-03 2.533E-03	0.000E+00	6.54 <i>5</i> E+00
155 156 157 158	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.272E-02 4.022E-02	0.000E+00	4.875E-02	1.783E-03	4.843E-04	3.691E-03	0.000E+00	6.571E+00
157	0.000E+00	0.000E+00	1.939E-02	0.000E+00 0.000E+00	4.593E-02 2.250E-02	1.727E-03	4.566E-04	3.476E-03	0.000E+00	6.653E+00
158	0.000E+00	0.000E+00	1.649E-02	0.000E+00	1.886E-02	7.596Z-04 7.347E-04	2.213E-04 1.874E-04	1.675E-03	0.000E+00	8.243E+00
159	0.000E+00	0.000E+00	1.051E-02	0.000E+00	1.215E-02	4.703E-04	1 193F-04	1.425E-03 9.070E-04	0.000E+00 0.000E+00	7.236E+00 6.415E+00
160	0.000E+00	0.000E+00	1.346E-02	0.000E+00	1.534E-02	4.711E-04	1.517E-04	1.161E-03	0.000E+00	5.781E+00
161	0.000E+00	0.000E+00	1.395E-02	0.000E+00	1.621E-02 1.634E-02	5.192E-04 5.061E-04	1.591E-04	1.205E-03	0.000E+00	5.261E+00
162	0.000E+00	0.000E+00	1.403E-02	0.000E+00	1.634E-02	5.061E-04	1.600E-04	1.212E-03	0.000E+00	4.856E+00
163 164	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.546E-02 1.542E-02	0.0005+00	1.804E-02	5.758E-04	1.766E-04	1.336E-03	0.000E+00	4.902E+00
165	0.000E+00	0.000E+00	2.382E-02	0.000E+00 0.000E+00	1.781E-02	5.396E-04	1.750E-04	1.331E-03	0.000E+00	5.001E+00
166	0.000E+00	0.000E+00	2.575E-02	0.000E+00	2.765E-02 2.995E-02	8.340E-04 9.074E-04	2.710E-04 2.933E-04	2.056E-03 2.223E-03	0.000E+00 0.000E+00	5.083E+00
167	0.000E+00	0.000E+00	2.168E-02	0.000E+00	2.527E-02	7.593E-04	2.471E-04	1.871E-03	0.000E+00	5.171E+00 5.261E+00
168	0.000E+00	0.000E+00	1.372E-02	0.000E+00	1.585E-02	7.593E-04 5.514E-04	1.557E-04	1.184E-03	0.000E+00	7.254E+00
169	0.000E+00	0.000E+00	1.144E-02	0.000E+00	1.322E-02	4.003E-04	1.298E-04	9.874E-04	0.000E+00	6.378E+00
170 171	0.0002+00	0.000E+00	1.497E-02	0.000E+00	1.737E-02	5.378E-04	1.704E-04	1.292E-03	0.000E+00	5.686E+00
171 172	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.471E-02	0.000E+00	1.708E-02	5.813E-04	1.679E-04	1.270E-03	0.000E+00	5.182E+00
173	0.000E+00	0.000E+00	1.644E-02 1.620E-02	0.000E+00 0.000E+00	1.919E-02 1.868E-02	6.001E-04 5.694E-04	1.878E-04	1.420E-03	0.000E+00	5.084E+00
174	0.000E+00	0.000E+00	2.356E-02	0.000E+00	2.728E-02	8.247E-04	1.837E-04 2.677E-04	1.398E-03 2.033E-03	0.000E+00 0.000E+00	5.168E+00 5.259E+00
175 176	0.000E+00	0.000E+00	2.293E-02	0.000E+00	2.659E-02	8.149E-04	2.608E-04	1.979E-03	0.000E+00	5.259E+00 5.358E+00
176	0.000E+00	0.000E+00	2.431E-02	0.000E+00	2.835E-02	8.512E-04	2.772E-04	2.098E-03	0.000E+00	5.462E+00
177 178	0.000E+00	0.000E+00	2.602E-02	0.000E+00	3.038E-02	9.203E-04	2.969E-04	2.247E-03	0.000E+00	5.565E+00
178 179	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.655E-02	0.000E+00	1.922E-02	2.383E-03	1.889E-04	1.430E-03	0.000E+00	7.179E+00
	2.2202.00	5.550ET0U	1.239E-02	0.000E+00	1.428E-02	5.094E-04	1.404E-04	1.069E-03	0.0002+00	6.264E+00

180	0.000E+00	0.000E+00	1.704E-02	0.000E+00	1.979E-02	6.4202-04	1.943E-04	1.472E-03	0.000E+00	5.594E+00
181	0.000E+00	0.000E+00	1.697E-02	0.000E+00	1.981E-02	6.076E-04	1.937E-04	1.466E-03	0.000E+00 0.000E+00	5.286E+00 5.364E+00
182 183	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.145E-02	0.000E+00	2.489E-02	1.150E-03 7.941E-04	2.439E-04 2.574E-04	1.851E-03 1.958E-03	0.000E+00	5.465E+00
184	0.000E+00	0.000E+00	2.269E-02 2.076E-02	0.000E+00 0.000E+00	2.619E-02 2.417E-02	7.261E-04	2.365E-04	1.792E-03	0.000E+00	5.592E+00
185	0.000E+00	0.000E+00	2.749E-02	0.000E+00	3.208E-02	1.422E-03	3.135E-04	2.373E-03	0.000E+00	5.686E+00
186	0.000E+00	0.000E+00	2.692E-02	0.000E+00	3.143E-02	9.5362-04	3.072E-04	2.324E-03	0.000E+00	5.803E+00
187	0.000E+00	0.000E+00	2.521E-02	0.000E+00	2.942E-02	8.832E-04	2.875E-04	2.176E-03	0.000E+00	5.917E+00
188	0.000E+00	0.000E+00	2.126E-02	0.000E+00	2.451E-02	9.227E-04	2.410E-04	1.834E-03	0.000E+00	7.063E+00
189	0.000E+00	0.000E+00	1.369E-02	0.000E+00	1.577E-02	8.291E-04	1.553E-04	1.183E-03	0.000E+00	6.147E+00
190	0.000E+00	0.000E+00	1.678E-02	0.000E+00	1.958E-02	8.236Z-04	1.914E-04	1.449E-03	0.000E+00	5.546E+00
191	0.000E+00	0.000E+00	2.315E-02	0.000E+00	2.681E-02	1.695E-03	2.630E-04	1.998 <b>E-</b> 03	0.000E+00	5.626E+00
192	0.000E+00	0.000E+00	2.456E-02	0.000E+00	2.858E-02	1.239E-03	2.798E-04	2.121E-03	0.000E+00	5.726E+00
193	0.000Z+00	0.000E+00	2.507E-02	0.000E+00	2.921E-02	1.9292-03	2.856E-04	2.163E-03	0.000E+00	5.831E+00
194	0.0002+00	0.000E+00	2.921E-02	0.000E+00	3.409E-02	1.0212-03	3.331E-04	2.523E-03	0.000E+00	5.977E+00
195	0.000E+00	0.000E+00	2.671E-02	0.000E+00	3.119E-02	1.531E-03	3.049E-04	2.307E-03	0.000E+00	6.081E+00
196	0.000E+00	0.000E+00	2.641E-02	0.0002+00	3.083E-02	1.619E-03	3.019E-04 2.666E-04	2.280E-03 2.018E-03	0.000E+00 0.000E+00	6.232E+00
197 198	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.337E-02 2.552E-02	0.000E+00 0.000E+00	2.726E-02 2.932E-02	8.363E-04 1.109E-03	2.888E-04	2.201E-03	0.000E+00	6.349E+00 6.946E+00
199	0.000E+00	0.000E+00	1.585E-02	0.0002+00	1.844E-02	2.991E-03	1.805E-04	1.368E-03	0.000E+00	6.045E+00
200	0.000E+00	0.000E+00	2.403E-02	0.000E+00	2.766E-02	8.421E-04	2.722E-04	2.075E-03	0.000E+00	5.972E+00
201	0.0002+00	0.000E+00	2.641E-02	0.000E+00	3.073E-02	9.235E-04	3.007E-04	2.279E-03	0.000E+00	6.198E+00
202	0.000E+00	0.000E+00	3.966E-02	0.000E+00	4.524E-02	1.692E-03	4.497E-04	3.427E-03	0.000E+00	6.456E+00
203	0.000Z+00	0.000E+00	2.567E-02	0.000E+00	2.997E-02	9.811E-04	2.936E-04	2.218E-03	0.000E+00	6.608E+00
204	0.000E+00	0.000E+00	2.093E-02	0.000E+00	2.440E-02	7.664E-04	2.389E-04	1.809E-03	0.000E+00	6.716E+00
205	0.000E+00	0.000E+00	1.912E-02	0.000E+00	2.229E-02	7.0092-04	2.180E-04	1.651E-03	0.000E+00	6.903E+00
206	0.000E+00	0.000E+00	1.617E-02	0.000E+00	1.873E-02	6.729E-04	1.841E-04	1.397E-03	0.000E+00	7.596E+00
207	0.000E+00	0.000E+00	1.479E-02	0.000E+00	1.712E-02	5.860E-04	1.686E-04	1.280E-03	0.000E+00	8.492E+00
208	0.000E+00	0.000E+00	7.650E-03	0.00CE+00	8.854E-03	3.188E-04	8.723E-05	6.601E-04	0.000E+00	7.568E+00
209	0.000E+00	0.300E+00	9.925E-03	0.000E+00	1.150E-02	3.651E-04	1.130E-04	8.567E-04	0.000E+00	7.600E+00
210	0.0002+00	0.000E+00	1.099E-02	0.000E+00	1.273E-02	3.862E-04	1.249E-04	9.482E-04	0.000E+00	7.601E+00
211	0.000E+00	0.000E+00	9.459E-03	0.000E+00	1.102E-02	3.981E-04	1.085E-04	8.181E-04	0.000E+00	7.6762+00
212 213	0.0002+00	0.000E+00	1.245E-02	0.000E+00	1.446E-02	4.930E-04	1.422E-04	1.075E-03	0.000E+00	7.526E+00
213	0.000E+00	0.000E+00	1.439E-02	0.000E+00	1.669E-02	5.249E-04	1.638E-04	1.242E-03	0.000E+00	6.965E+00 6.350E+00
214 215	0.000E+00	0.000E+00	1.133E-02	0.000E+00	1.312E-02	4.340Z-04	1.288E-04 1.670E-04	9.777E-04 1.266E-03	0.000E+00 0.000E+00	6.274E+00
216	0.000E+00 0.000E+00	0.000E+00	1.466E-02	0.000E+00	1.703E-02	5.283E-04 5.309E-04	1.594E-04	1.209E-03	0.000E+00	6.156E+00
217	0.000E+00	0.000E+00 0.000E+00	1.400E-02 1.484E-02	0.000E+00 0.000E+00	1.627E-02 1.723E-02	5.457E-04	1.690E-04	1.281E-03	0.000E+00	6.233E+00
218	0.000E+00	0.000E+00	1.323E-02	0.000E+00	1.537E-02	5.208E-04	1.507E-04	1.142E-03	0.000E+00	5.935E+00
219	0.000E+00	0.000E+00	1.702E-02	0.000E+00	1.963E-02	6.343E-04	1.933E-04	1.468E-03	0.000E+00	5.328E+00
220	0.000E+00	0.000E+00	1.015E-02	0.000E+00	1.171E-02	3.559E-04	1.151E-04	8.758E-04	0.000E+00	4.985E+00
221	0.000E+00	0.000E+00	6.046E-03	0.000E+00	7.002E-03	2.163E-04	6.874E-05	5.220E-04	0.000E+00	4.515E+00
222	0.000E+00	0.000E+00	8.303E-03	0.000E+00	9.644E-03	3.197E-04	9.475E-05	7.172E-04	0.000E+00	4.095E+00
223	0.000E+00	0.000E+00	9.791E-03	0.000E+00	1.141E-02	3.699E-04	1.119E-04	8.461E-04	0.000E+00	3.882E+00
224	0.000E+00	0.000E+00	1.059E-02	0.000E+00	1.234E-02	4.047E-04	1.210E-04	9.151E-04	0.000E+00	3.956E+00
225	0.000E+00	0.000E+00	1.071E-02	0.000E+00	1.246E-02	3.934E-04	1.221E-04	9.248E-04	0.900E+00	4.035E+00
226	0.000E+00	0.000E+00	1.195E-02	0.000E+00	1.386E-02	4.232E-04	1.359E-04	1.031E-03	0.000E+00	4.110E+00
<u> 22</u> 7	0.000E+00	0.000E+00	1.129E-02	0.000E+00	1.307E-02	3.982E-04	1.282E-04	9.740E-04	0.000E+00	7.821E+00
228	0.000E+00	0.000E+00	9.656E-03	0.000E+00	1.116E-02	3.380E-04	1.096E-04	8.332E-04	0.000E+00	8.249E+00
229	0.000E+00	0.000E+00	9.876E-03	0.000E+00	1.145E-02	3.625E-04	1.124E-04	8.525E-04	0.000E+00	8.356E+00
230	0.000E+00	0.000E+00	1.179E-02	0.000E+00	1.366E-02	4.134E-04	1.339E-04	1.017E-03	0.000E+00	8.638E+00
231	0.000E+00	0.000E+00	1.034E-02	0.000E+00	1.203E-02	4.379E-04	1.185E-04	8.940E-04	0.000E+00	8.150E+00
232	0.000E+00	0.000E+00	1.371E-02	0.000E+00	1.591E-02	5.258E-04	1.564E-04 1.706E-04	1.184E-03 1.294E-03	0.000E+00	7.705E+00 7.220E+00
233 234	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.499E-02 1.318E-02	0.000E+00 0.000E+00	1.740E-02 1.529E-02	5.335E-04 4.927E-04	1.499E-04	1.137E-03	0.000E+00	6.936Z+00
235	0.000E+00	0.000E+00	1.482E-02	0.000E+00	1.722E-02	5.287E-04	1.687E-04	1.279E-03	0.000E+00	6.886E+00
236	0.000E+00	0.000E+00	1.551E-02	0.000E+00	1.301E-02	5.659E-04	1.766E-04	1.338E-03	0.000E+00	6.823E+00
237	0.000E+00	0.000E+00	1.376E-02	0.000E+00	1.599E-02	5.449E-04	1.568E-04	1.188E-03	0.000E+00	6.468E+00
238	0.000E+00	0.000E+00	1.700E-02	0.000E+00	1.956E-02	6.254E-04	1.928E-04	1.467E-03	0.000E+00	5.796Z+00
239	0.000E+00	0.000E+00	1.004E-02	0.000E+00	1.158E-02	3.516E-04	1.139E-04	8.667E-04	0.000E+00	5.050E+00
240	0.000E+00	0.000E+00	9.030E-03	0.000E+00	1.049E-02	3.299E-04	1.029E-04	7.799E-04	0.000E+00	4.623E+00
241	0.000E+00	0.000E+00	9.566E-03	0.000E+00	1.115E-02	3.460E-04	1.091E-04	8.263E-04	0.000E+00	4.173E+00
242	0.000E+00	0.000E+00	1.132E-02	0.000E+00	1.320E-02	4.257E-04	1.293E-04	9.783E-04	0.000E+00	4.113E+00
243	0.000E+00	0.000E+00	1.101E-02	0.000E+00	1.280E-02	3.978E-04	1.255E-04	9.512E-04	0.000E+00	4.212E+00
244	0.000E+00	0.000E+00	1.370E-02	0.000E+00	1.589E-02	4.832E-04	1.558E-04	1.182E-03	0.000E+00	4.310E+00
245	0.000E+00	0.000E+00	1.55ZE-02	0.000E+00	1.804E-02	5.6842-04	1.769E-04	1.340E-03	0.000E+00	4.373E+00
246	0.000E+00	0.000E+00	9.572E-03	0.000E+00	1.110E-02	3.634E-04	1.091E-04	8.265E-04	0.000E+00	8.690E+00
247 248	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.164E-02	0.000E+00 0.000E+00	1.348E-02 1.348E-02	4.125E-04 4.078E-04	1.323E-04 1.323E-04	1.004E-03 1.005E-03	0.000E+00 0.000E+00	8.702E+00 9.010E+00
249	0.000E+00		1.165E-02	0.000E+00	1.117E-02	3.528E-04	1.097E-04	8.322E-04	0.000E+00	9.444E+00
250		0.000E+00	9.642E-03		1 4688-02	4.434E-04	1.439E-04	1.093E-03	0.000E+00	9.408E+00
251	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.266E-02 1.112E-02	0.000E+00 0.000E+00	1.468E-02 1.292E-02	4.680E-04	1.273E-04	9.614E-04	0.000E+00	9.054E+00
252	0.000E+00	0.000E+00	1.540E-02	0.000E+00	1.787E-02	5.657E-04	1.754E-04	1.329E-03	0.000E+00	8.124E+00
252 253 254 255	0.000E+00	0.000E+00	1.473E-02	0.000E+00	1.710E-02	5.171E-04	1.676E-04	1.271E-03	0.000E+00	7.893E+00
254	0.000E+00	0.000E+00	1.614E-02	0.000E+00	1.876E-02	5.667E-04	1.837E-04	1.393E-03	0.000E+00	7.717E+00
255	0.000E+00	0.000E+00	1.614E-02 1.590E-02	0.000E+00	1.846E-02	5.925E-04	1.812E-04	1.372E-03	0.000E+00	7.699E+00
256	0.000E+00	0.000E+00	1.430E-02	0.000E+00	1.661E-02	5.704E-04	1.629E-04	1.234E-03	0.000E+00	6.883E+00
257	0.000E+00	0.000E+00	1.654E-02	0.000E+00	1.897E-02	5.997E-04	1.872E-04	1.427E-03	0.000E+00	6.172E+00
258	0.000E+00	0.000E+00	1.018E-02	0.000E+00	1.174E-02	3.561E-04	1.154E-04	8.783E-04	0.000E+00	5.338E+00
259	0.000E+00	0.000E+00	1.035E-02	0.000E+00	1.202E-02		1.180E-04	8.936E-04	0.000E+00	4.687E+00
260	0.000E+00	0.000E+00	1.161E-02 1.127E-02	0.000E+00	1.353E-02	4.293E-04	1.326E-04	1.003E-03	0.000E+00	4.304E+00
261	0.000E+00	0.000E+00	1.127E-02	0.000E+00	1.313E-02 1.851E-02	4.424E-04 5.605E-04	1.289E-04	9.736E-04	0.000E+00	4.410E+00
262	0.000E+00		1.595E-02	0.000E+00	1.851E-02	3.505E-04	1.814E-04	1.377E-03 1.475E-03	0.000E+00	4.526E+00
263	0.000E+00		1.708E-02		1.986E-02		1.946E-04	1.4/35-03	0.000E+00	4.606E+00 4.711E+00
264	0.000E+00		2.005E-02	0.000E+00	2.336E-02	7.172E-04 4.358E-04	2.286E-04 1.385E-04	1.731E-03 1.052E-03	0.000E+00 0.000E+00	8.684E+00
265	0.000E+00 0.000E+00		1.219E-02	0.000E+00	1.411E-02 1.276E-02	4.358E-04 4.169E-04	1.385E-04 1.253E-04	9.524E-04	0.000E+00	9.416E+00
266 267	0.000E+00		1.104E-02 1.093E-02	0.000E+00 0.000E+00	1.257E-02	3.924E-04	1.244E-04	9.437E-04	0.000E+00	9.580E+00
268	0.000E+00		1.308E-02	0.000E+00	1.516E-02		1.487E-04	1.129E-03	0.000E+00	9.932E+00
269	0.000E+00		1.072E-02		1.240E-02	3.752E-04	1.217E-04	9.254E-04	0.000E+00	1.020E+01
270	0.000E+00		1.360E-02		1.578E-02	4.759E-04	1.547E-04	1.174E-03	0.000E+00	1.029E+01
271	0.000E+00				1.401E-02			1.043E-03	0.000E+00	9.495E+00
272	0.000E+00		1.753E-02	C.000E+00	2.037E-02	6.216E-04		1.513E-03	0.000E+00	8.851E+00
273	0.000E+00		1.741E-02	0.000E+00	2.021E-02	6.093E-04	1.980E-04	1.503E-03	0.000E+00	8.829E+00
274	0.000E+00	0.000E+00	1.54ZE-02	. 0.000E+00	1.792E-02	1.194E-03	1.755E-04	1.331E-03	0.000E+00	8.586E+00
275	0.000E+00	0.000E+00	1.483E-02	0.000E+00	1.722E-02	2 5.409E-04	1.689E-04	1.280E-03	0.000E+00	7.449E+00
276	0.000E+00	0.000E+00	1.558E-02	0.000E+00	1.776E-02	2 5.561E-04	1.757E-04	1.344E-03	0.000E+00	6.293E+00

277	0.000E+00	0.000E+00	1.057E-02	0.000E+00	1.226E-02	3.769E-04	1.202E-04	9.125E-04	0.000E+00	5.359E+00
278	0.000E+00	0.0002+00	1.267E-02	0.000E+00	1.476E-02	4.572E-04	1.445E-04	1.094E-03	0.000E+00	4.644E+00
279 280	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.320E-02	0.000E+00	1.539E-02	5.082E-04	1.509E-04	1.140E-03	0.000E+00	4.643E+00
281	0.000E+00	0.000E+00	1.899E-02 1.865E-02	0.000E+00 0.000E+00	2.204E-02	6.657E-04	2.160E-04	1.639E-03	0.000E+00	4.781E+00
282	0.000E+00	0.000E+00	2.244E-02	0.000E+00	2.168E-02 2.617E-02	6.760E-04 8.076Z-04	2.125E-04 2.561E-04	1.610E-03 1.938E-03	0.000E+00 0.000E+00	4.916E+00
283	0.000E+00	0.000E+00	1.973E-02	0.000E+00	2.299E-02	7.106Z-04	2.249E-04	1.703E-03	0.000E+00	5.035E+00 5.195E+00
284	0.000E+00	0.000E+00	1.253E-02	0.000E+00	1.455E-02	4.752E-04	1.429E-04	1.082E-03	0.000E+00	8.808E+00
285 286	0.000E+00	0.000E+00	1.335E-02	0.000E+00	1.548E-02	4.856E-04	1.519E-04	1.152E-03	0.000E+00	9.540E+00
287	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.356E-02	0.000E+00	1.570E-02	5.023E-04	1.541E-04	1.170E-03	0.000E+00	9.952E+00
288	0.000E+00	0.000E+00	1.247E-02 1.321E-02	0.000E+00 0.000E+00	1.443E-02 1.531E-02	4.370E-04 4.625E-04	1.416E-04	1.076E-03	0.000E+00	1.051E+01
289	0.000E+00	0.0002+00	1.373E-02	0.000E+00	1.590E-02	4.802E-04	1.501E-04 1.560E-04	1.140E-03 1.185E-03	0.000E+00 0.000E+00	1.127E+01 1.191E+01
290	0.000E+00	0.000E+00	1.457E-02	0.000E+00	1.692E-02	5.0952-04	1.657E-04	1.257E-03	0.000E+00	1.147E+01
291 292	0.000E+00 0.000E+00	0.000E+00	1.399E-02	0.000E+00	1.622E-02	5.249E-04	1.594E-04	1.208E-03	0.000E+00	9.772E+00
293	0.000E+00	0.000E+00 0.000E+00	2.799E-02 1.799E-02	0.000E+00	3.206E-02	1.2462-03	3.188E-04	2.421E-03	0.000E+00	1.020E+01
294	0.000E+00	0.000E+00	2.332E-02	0.000E+00 0.000E+00	2.084E-02 2.722E-02	6.292E-04 8.497E-04	2.044E-04 2.663E-04	1.552E-03 2.015E-03	0.000E+00	9.681E+00
295	0.000E+00	0.000E+00	2.272E-02	0.000E+00	2.650E-02	8.106E-04	2.592E-04	1.962E-03	0.000E+00 0.000E+00	5.426E+00 5.645E+00
296	0.000E+00	0.000E+00	1.912E-02	0.000E+00	2.225E-02	7.424E-04	2.184E-04	1.652E-03	0.000E+00	5.768E+00
297 298	0.000E+00	0.000E+00	1.007E-02	0.000E+00	1.174E-02	5.6472-04	1.154E-04	8.705E-04	0.000E+00	8.265E+00
299	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.150E-02	0.0002+00	1.339E-02	5.492E-04	1.316E-04	9.940E-04	0.000E+00	9.784E+00
300	0.000E+00	0.000E+00	1.283E-02 1.423E-02	0.000E+00 0.000E+00	1.489E-02 1.651E-02	6.270E-04 5.111E-04	1.463E-04 1.619E-04	1.108E-03 1.229E-03	0.000E+00	1.035E+01
301	0.000E+00	0.000E+00	1.530E-02	0.000E+00	1.774E-02	5.372E-04	1.740E-04	1.321E-03	0.000E+00 0.000E+00	1.102E+01 1.172E+01
302	0.0002+00	0.000E+00	1.451E-02	0.000E+00	1.680E-02	5.074E-04	1.648E-04	1.252E-03	0.000E+00	1.296E+01
303 304	0.000E+00	0.000E+00	1.592E-02	0.000E+00	1.846E-02	5.567E-04	1.810E-04	1.374E-03	0.000E+00	1.400E+01
305	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.550E-02	0.000E+00	1.800E-02	5.420E-04	1.763E-04	1.337E-03	0.000E+00	1.203E+01
306	0.000E+00	0.000E+00	1.803E-02 2.163E-02	0.000E+00 0.000E+00	2.092E-02 2.521E-02	6.363E-04 7.959E-04	2.051E-04	1.556E-03	0.000E+00	1.200E+01
307	0.000E+00	0.000E+00	1.837E-02	0.000E+00	2.141E-02	6.819E-04	2.469E-04 2.094E-04	1.868E-03 1.586E-03	0.000E+00 0.000E+00	6.167E+00 6.403E+00
308	0.000E+00	0.000E+00	1.650E-02	0.000E+00	1.917E-02	6.259E-04	1.882E-04	1.425E-03	0.000E+00	6.459E+00
309	0.000E+00	0.000E+00	7.049E-03	0.000E+00	8.128E-03	7.211E-04	7.992E-05	6.082E-04	0.000E+00	8.925E+00
310 311	0.000E+00 0.000E+00	0.000E+00	8.334E-03	0.000E+00	9.753E-03	5.936E-04	9.588E-05	7.212E-04	0.000E+00	9.581E+00
312	0.000E+00	0.000E+00 0.000E+00	1.002E-02 1.124E-02	0.000E+00 0.000E+00	1.170E-02	8.004E-04	1.151E-04	8.669E-04	0.000E+00	9.921E+00
313	0.000E+00	0.000E+00	1.253E-02	0.000E+00	1.308E-02 1.454E-02	5.674E-04 4.719E-04	1.287E-04 1.428E-04	9.712E-04 1.082E-03	0.000E+00	1.1402+01
314	0.000E+00	0.000E+00	1.478E-02	0.000E+00	1.713E-02	5.222E-04	1.680E-04	1.002E-03	0.000E+00 0.000E+00	1.238E+01 1.368E+01
315	0.000E+00	0.000E+00	1.747E-02	0.000E+00	2.027E-02	6.111E-04	1.987E-04	1.508E-03	0.000E+00	1.563E+01
316	0.000E+00	0.000E+00	1.743E-02	0.000E+00	2.021E-02	6.0962-04	1.982E-04	1.504E-03	0.000E+00	1.676E+01
317 318	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.825E-02	0.000E+00	2.108E-02	6.385E-04	2.071E-04	1.575E-03	0.000E+00	1.499E+01
319	0.000E+00	0.000E+00	1.641E-02 1.415E-02	0.000E+00 0.000E+00	1.905E-02 1.640E-02	6.193E-04 6.101E-04	1.871E-04	1.418E-03 1.224E-03	0.000E+00	7.241E+00
320	0.000E+00	0.000E+00	1.030E-02	0.000E+00	1.194E-02	4.725E-04	1.619E-04 1.18ZE-04	8.911E-04	0.000E+00 0.000E+00	7.275E+00 7.543E+00
321	0.000E+00	0.000E+00	1.407E-02	0.000E+00	1.614E-02	8.464E-04	1.591E-04	1.214E-03	0.000E+00	8.507E+00
322	0.000E+00	0.000E+00	1.429E-02	0.000E+00	1.638E-02	8.461E-04	1.616E-04	1.233E-03	0.000E+00	9.401E+00
323 324	0.000E+00 0.000E+00	0.000E+00	1.450E-02	0.000E+00	1.661E-02	7.525E-04	1.6392-04	1.251E-03	0.000E+00	1.036E+01
325	0.000E+00	0.000E+00 0.000E+00	1.468E-02 1.479E-02	0.000E+00 0.000E+00	1.681E-02	6.044E-04	1.659E-04	1.266E-03	0.000E+00	1.087E+01
326	0.000E+00	0.000E+00	1.528E-02	0.000E+00	1.693E-02 1.768E-02	5.177E-04 5.346E-04	1.671E-04 1.736E-04	1.276E-03 1.319E-03	0.000E+00	1.24ZE+01
327	0.000E+00	0.000E+00	1.813E-02	0.000E+00	2.098E-02	6.341E-04	2.059E-04	1.564E-03	0.000E+00 0.000E+00	1.443E+01 1.657E+01
328	0.000E+00	0.000E+00	2.076E-02	0.000E+00	2.404E-02	7.263E-04	2.359E-04	1.792E-03	0.000E+00	2.240E+01
329 330	0.000E+00	0.000E+00	2.321E-02	0.000E+00	2.689E-02	8.117E-04	2.637E-04	2.003E-03	0.000E+00	2.231E+01
331	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.156E-02	0.000E+00	1.342E-02	4.8742-04	1.315E-04	9.977E-04	0.000E+00	8.794E+00
332	0.000E+00	0.000E+00	1.132E-02 1.146E-02	0.000E+00 0.000E+00	1.311E-02 1.327E-02	3.971E-04 4.063E-04	1.286E-04	9.770E-04	0.000E+00	8.920E+00
333	0.000E+00	0.000E+00	3.825E-02	0.000E+00	4.432E-02	1.338E-03	1.302E-04 4.347E-04	9.889E-04 3.300E-03	0.000E+00 0.000E+00	8.468E+00 8.282E+00
334	0.000E+00	0.000E+00	3.998E-02	0.000E+00	4.636E-02	1.399E-03	4.545E-04	3.450E-03	0.000E+00	8.885E+00
335	0.000E+00	0.000E+00	4.182E-02	0.000E+00	4.850E-02	1.463E-03	4.755E-04	3.609E-03	0.000E+00	9.650E+00
336 337	0.000E+00 0.000E+00	0.000E+00	4.371E-02	0.000E+00	5.071E-02	1.529E-03	4.970E-04	3.772E-03	0.000E+00	1.072E+01
338	0.000E+00	0.000E+00 0.000E+00	4.554E-02 4.707E-02	0.000E+00 0.000E+00	5.286E-02 5.465E-02	1.593E-03	5.180E-04	3.930E-03	0.000E+00	1.236E+01
339	0.000E+00	0.000E+00	4.777E-02	0.000E+00	5.546E-02	1.646E-03 1.671E-03	5.354E-04 5.434E-04	4.062E-03 4.122E-03	0.000E+00 0.000E+00	1.481E+01 1.748E+01
340	0.000E+00	0.000E+00	4.639E-02	0.000E+00	5.383E-02	1.623E-03	5.276E-04	4.003E-03	0.000E+00	2.313E+01
341	0.000E+00	0.000E+00	1.111E-02	0.000E+00	1.277E-02	1.343E-03	1.257E-04	9.583E-04	0.000E+00	1.086E+01
342 343	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.275E-02	0.000E+00	1.478E-02	4.589E-04	1.451E-04	1.101E-03	0.000E+00	1.127E+01
344	0.000E+00	0.000E+00	1.299E-02 1.203E-02	0.000E+00 0.000E+00	1.508E-02 1.398E-02	4.967E-04 4.924E-04	1.482E-04 1.376E-04	1.123E-03	0.000E+00 0.000E+00	1.106E+01
345	0.000E+00	0.000E+00	1.049E-02	0.000E+00	1.220E-02	4.530E-04	1.203E-04	1.040E-03 9.077E-04	0.000E+00	1.021E+01 9.505E+00
346	0.000E+00	0.000E+00	4.491E-02	0.000E+00	5.204E-02	1.701E-03	5.116E-04	3.876E-03	0.000E+00	8.474E+00
347	0.000E+00	0.000E+00	4.528E-02	0.000E+00	5.245E-02	1.729E-03	5.159E-04	3.907E-03	0.000E+00	8.832E+00
348 349	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.557E-02	0.000E+00	5.277E-02	1.638E-03	5.182E-04	3.933E-03	0.000E+00	8.582E+00
350	0.000E+00	0.000E+00	4.588E-02 4.636E-02	0.000E+00 0.000E+00	5.312E-02 5.366E-02	1.638E-03 1.642E-03	5.214E-04 5.267E-04	3.959E-03	0.000E+00	8.059E+00
351	0.000E+00	0.000E+00	4.725E-02	0.000E+00	5.470E-02	1.662E-03	5.368E-04	4.000E-03 4.077E-03	0.000E+00 0.000E+00	1.127E+01 1.294E+01
352	0.000E+00	0.000E+00	4.881E-02	0.000E+00	5.650E-02	1.709E-03	5.544E-04	4.212E-03	0.000E+00	1.469E+01
353	0.000E+00	0.000E+00	5.095E-02	0.000E+00	5.891E-02	1.782E-03	5.784E-04	4.397E-03	0.000E+00	2.185E+01
354 355	0.000E+00 0.000E+00	0.000E+00	1.124E-02	0.000E+00	1.298E-02	4.460E-04	1.280E-04	9.711E-04	0.000E+00	1.568E+01
356	0.000E+00	0.000E+00 0.000E+00	9.319E-03 8.385E-03	0.000E+00 0.000E+00	1.082E-02 9.757E-03	3.812E-04	1.065E-04	8.055E-04	0.000E+00	1.386E+01
357	0.000E+00	0.000E+00	7.736E-03	0.000E+00	9.009E-03	3.480E-04 3.225E-04	9.601E-05 8.863E-05	7.250E-04	0.000E+00	1.269E+01
358	0.000E+00	0.000E+00	7.220E-03	0.000E+00	8.409E-03	3.008E-04	8.272E-05	6.689E-04 6.242E-04	0.000E+00 0.000E+00	1.152E+01 1.059E+01
359	0.000E+00	0.000E+00	3.557E-02	0.000E+00	4.150E-02	1.374E-03	4.069E-04	3.070E-03	0.000E+00	8.613E+00
360 361	0.000E+00 0.000E+00	0.000E+00	3.554E-02	0.000E+00	4.150E-02	1.388E-03	4.068E-04	3.068E-03	0.000E+00	9.352E+00
362	0.000E+00	0.000E+00 0.000E+00	3.540E-02	0.000E+00 0.000E+00	4.138E-02 4.107E-02	1.666E-03	4.081E-04	3.056E-03	0.000E+00	1.013E+01
363	0.000E+00	0.000E+00	3.510E-02 3.458E-02	0.000E+00	4.10/E-02 4.051E-02	1.709E-03 1.753E-03	4.054E-04 4.003E-04	3.030E-03 2.985E-03	0.0002+00	1.098E+01
364	0.000E+00	0.000E+00	3.393E-02	0.000E+00	3.981E-02	1.789E-03	3.937E-04	2.985E-03 2.929E-03	0.000E+00 0.000E+00	1.198E+01 1.332E+01
365	0.000E+00	0.000E+00	3.329E-02	0.000E+00	3 9717-02	1.776E-03	3 8677-04	2 87AF-03	0.000E+00	1.526E+01
366 367	0.000E+00	0.000E+00	3.252E-02	0.000E+00	3.827E-02	1.591E-03 1.260E-03	3.768E-04 3.801E-04	2.808E-03	0.000E+00	1.819E+01
367 368	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.310E-02	0.000E+00	3.898E-02	1.260E-03	3.801E-04	2.857E-03	0.000E+00	2.401E+01
369	0.000E+00	0.000E+00	2.748E-02 1.464E-02	0.000E+00 0.000E+00	3.195E-02 1.672E-02	9.610E-04 5.122E-04	3.128E-04 1.651E-04	2.371E-03	0.000E+00	3.271E+01
370	0.000E+00	0.000E+00	8.654E-03	0.000E+00	1.007E-02	3 307E-04	9.884E-05	1.263E-03 7.475E-04	0.000E+00 0.000E+00	2.132E+01
371	0.000E+00	0.000E+00	1.010E-02	0.000E+00	1.162E-02	3.533E-04	1.143E-04	8.712E-04	0.000E+00	1.713E+01 1.473E+01
372 373	0.000E+00	0.000E+00	9.321E-03	0.000E+00	1.162E-02 1.072E-02	3.310E-04	1.143E-04 1.055E-04	8.042E-04	0.000E+00	1.315E+01
3/3	0.000E+00	0.000E+00	8.56ZE-03	0.000E+00	9.932E-03	3.1062-04	9.746E-05	7.391E-04	0.000E+00	1.195E+01

374	0.000E+00	0.000E+00	7.852E-03	0.000E+00	9.102E-03	2.836E-04	8.934E-05	6.778E-04	0.000E+00	1.093E+01
375	0.000E+00	0.000E+00	1.016E-02	0.000E+00	1.180E-02	4.160E-04	1.159E-04	8.772E-04	0.000E+00	6.777E+00
376	0.000E+00	0.000E+00	1.016E-02 1.094E-02	0.000E+00	1.272E-02	4.1462-04	1.248E-04	9.447E-04	0.000E+00	6.794E+00
377	0.000E+00	0.000E+00	1.141E-02	0.000E+00	1.327E-02	1.210E-03	1.303E-04	9.858E-04	0.000E+00	6.698E+00
378	0.000E+00	0.000E+00	1.143E-02	0.000E+00	1.330E-02	1.274E-03	1.307E-04	9.879E-04	0.000E+00	7.931E+00
379	0.000E+00	0.000E+00	1.070E-02	0.000E+00	1.246E-02	1.180E-03	1.226E-04	9.257E-04	0.000E+00	1.085E+01
380	0.000E+00	0.000E+00	1.014E-02	0.000E+00	1.170E-02	4.935E-04	1.154E-04	8.765E-04	0.000E+00	1.320E+01
381	0.000E+00	0.000E+00	1.418E-02	0.000E+00	1.654E-02	6.455E-04	1.617E-04	1.224E-03	0.000E+00	1.523E+01
382	0.000E+00	0.000E+00	1.636E-02	0.000E+00	1.911E-02	5.915E-04	1.868E-04	1.413E-03	0.000E+00	1.824E+01
383	0.000E+00	0.000E+00	4.299E-02	0.000E+00	5.022E-02	1.503E-03	4.906E-04	3.711E-03	0.000E+00	2.334E+01
384	0.000E+00	0.000E+00	5.169E-02	0.000E+00	6.028E-02	1.811E-03	5.894E-04	4.46ZE-03	0.000E+00	2.541E+01
385	0.000E+00	0.000E+00	4.455E-02	0.000E+00	5.178E-02	1.561E-03	5.071E-04	3.845E-03	0.000E+00	3.226E+01
386	0.000E+00	0.000E+00	3.188E-02	0.000E+00	3.706E-02	1.115E-03	3.629E-04	2.751E-03	0.000E+00	3.139E+01
387	0.000E+00	0.000E+00	1.972E-02	0.000E+00	2.294E-02	6.898E-04	2.245E-04	1.702E-03	0.000E+GO	3.157E+01
388	0.000E+00	0.000E+00	1.755E-02	0.000E+00	2.028E-02	6.141E-04	1.992E-04	1.515E-03	0.000E+00	2.155E+01
389	0.000E+00	0.000E+00	1.871E-02	0.000E+00	2.164E-02	6.545 <b>Z-</b> 04	2.124E-04	1.614E-03	0.000E+00	1.711E+01
390	0.000E+00	0.0002+00	6.328E-03	0.000E+00	7.197E-03	2.4372-04	7.124E-05	5.458E-04	0.000E+00	1.465E+01
391	0.000E+00	0.000E+00	6.460E-03	0.000E+00	7.538E-03	2.673E-04	7.406E-05	5.585E-04	0.000E+00	1.274E+01
392 393	0.000E+00 0.000E+00	0.000E+00	7.128E-03	0.000E+00	8.303E-03	2.824E-04	8.153E-05	6.159E-04	0.000E+00	1.149E+01
394	0.000E+00	0.000E+00	7.437E-03	0.000E+00	8.651E-03	2.867E-04	8.493E-05	6.424E-04	0.000E+00	1.084E+01
395	0.000E+00	0.000E+00	9.348E-03	0.000E+00	1.088E-02	3.552E-04	1.067E-04	8.079E-04	0.000E+00	8.299E+00
396	0.000E+00	0.000E+00 0.000E+00	8.532E-03 7.704E-03	0.000E+00	9.936E-03	3.448E-04	9.750E-05	7.377E-04	0.000E+00	8.454E+00
397	0.000E+00	0.000E+00	7.7045-03	0.000E+00	8.934E-03	7.305E-04	8.790E-05	6.656E-04	0.000E+00	9.625E+00
398	0.000E+00	0.000E+00	8.792E-03 9.509E-03	0.000E+00	1.020E-02	1.327E-03	1.004E-04	7.600E-04	0.000E+00	1.038E+01
399	0.000E+00	0.000E+00	1.403E-02	0.000E+00 0.000E+00	1.108E-02 1.637E-02	1.0582-03	1.084E-04	8.211E-04	0.000E+00	9.173E+00
400	0.000E+00	0.000E+00	1.243E-02	0.000E+00	1.450E-02	9.251E-04 4.981E-04	1.601E-04 1.423 <del>E-0</del> 4	1.212E-03	0.000E+00	1.207E+01
401	0.000E+00	0.000E+00	1.949E-02	0.000E+00	2.268E-02	6.818E-04	2.220E-04	1.075E-03	0.000E+00	1.276E+01
402	0.000E+00	0.000E+00	4.208E-02	0.000E+00	4.898E-02	1.472E-03	4.793E-04	1.682E-03 3.631E-03	0.000E+00	1.283E+01
403	0.000E+00	0.000E+00	5.142E-02	0.000E+00	5.997E-02	2.140E-03	5.886E-04	4.438E-03	0.000E+00	1.192E+01
404	0.000E+00	0.000E+00	3.942E-02	0.000E+00	4.577E-02	1.401E-03	4.486E-04	3.402E-03	0.000E+00 0.000E+00	1.202E+01
405	0.000E+00	0.000E+00	2.748E-02	0.000E+00	3.196E-02	9.611E-04	3.129E-04	2.372E-03	0.000E+00	1.737E+01
406	0.000E+00	0.000E+00	1.620E-02	0.000E+00	1.881E-02	5.665E-04	1.843E-04	1.398E-03	0.000E+00	1.853E+01
407	0.000E+00	0.000E+00	1 528E-02	0.000E+00	1.776E-02	5.345E-04	1.739E-04	1.319E-03	0.000E+00	1.776E+01 1.720E+01
408	0.000E+00	0.000E+00	1.542E-02 1.628E-02	0.000E+00	1.785E-02	5.394E-04	1.751E-04	1.331E-03	0.000E+00	1.701E+01
409	0.000E+00	0.000E+00	1.628E-02	0.000E+00	1.885E-02	5.695E-04	1.849E-04	1.405E-03	0.000E+00	1.446E+01
410	0.000E+00	0.000E+00	5.634E-03	0.000E+00	6.435E-03	1.972E-04	6.356E-05	4.860E-04	0.000E+00	1.271E+01
411	0.000E+00	0.000E+00	5.721E-03	0.000E+00	6.540E-03	2.0023-04	6.458E-05	4.935E-04	0.000E+00	1.1672+01
412	0.000E+00	0.000E+00	5.611E-03	0.000E+00	6.498E-03	2.068E-04	6.375E-05	4.842E-04	0.000E+00	1.050E+01
413	0.000E+00	0.000E+00	1.274E-02	0.000E+00	1.485E-02	1.364E-03	1.455E-04	1.100E-03	0.000E+00	9.642E+00
414	0.000E+00	0.000E+00	8.328E-03	0.000E+00	9.691E-03	1.238E-03	9.543E-05	7.201E-04	0.000E+00	7.932E+00
415	0.000E+00	0.000E+00	8.770E-03	0.000E+00	9.898E-03	1.044E-03	9.899E-05	7.588E-04	0.000E+00	6.655E+00
416	0.000E+00	0.0002+00	1.001E-02	0.000E+00	1.166E-02	7.637E-04	1.147E-04	8.657E-04	0.000E+00	9.259E+00
417	0.000E+00	0.000E+00	6.743E-03	0.000E+00	7.459E-03	8.374E-04	7.557E-05	5.838E-04	0.000E+00	7.495E+00
418	0.000E+00	0.000E+00	1.122E-02 8.372E-03	0.000E+00	1.303E-02	8.763E-04	1.277E-04	9.686E-04	0.000E+00	6.566E+00
419	0.000E+00	0.000E+00	8.372E-03	0.000E+00	9.681E-03	6.925E-04	9.507E-05	7.224E-04	0.000E+00	9.180E+00
420 421	0.000E+00	0.000E+00	2.030E-02	0.000E+00	2.346E-02	8.159E-04	2.305E-04	1.752E-03	0.000E+00	7.436E+00
421	0.000E+00	0.000E+00	3.202E-02	0.000E+00	2.346E-02 3.724E-02	1.158E-03	3.649E-04	2.765E-03	0.000E+00	6.928E+00
422	0.000E+00	0.000E+00	3.394E-02	0.000E+00	3.936E-02	1.190E-03	3.859E-04	2.930E-03	0.000E+00	9.765E+00
423	0.000E+00	0.000E+00	3.215E-02	0.000E+00	3.741E-02	1.312E-03	3.679E-04	2.779E-03	0.000E+00	8.290E+00
424	0.000E+00	0.000E+00	3.113E-02	0.000E+00	3.621E-02	1.091E-03	3.545E-04	2.688E-03	0.000E+00	7.449E+00
425	0.000E+00	0.000E+00	4.632E-02	0.000E+00	5.405E-02	1.624Z-03	5.283E-04	4.003E-03	0.000E+00	1.004E+01
426	0.000E+00	0.000E+00	4.449E-02	0.000E+00	5.192E-02	1.692E-03	5.087E-04	3.851E-03	0.000E+00	8.729E+00
427 428	0.000E+00	0.000E+00	4.231E-02	0.000E+00	4.930E-02	1.767E-03	4.830E-04	3.65ZE-03	0.000E+00	7.742E+00
429	0.000E+00 0.000E+00	0.000E+00	5.002E-02	0.000E+00	5.831E-02	2.214E-03 2.122E-03	5.745E-04 5.481E-04	4.317E-03	0.000E+00	1.005E+01
429	0.000E+00	0.000E+00	4.773E-02	0.000E+00	5.560E-02	2.1ZZE-03	5.481E-04	4.120E-03	0.000E+00	8.755E+00
431	0.000E+00	0.000E+00 0.000E+00	4.523E-02 3.679E-02	0.000E+00	5.265E-02 4.271E-02	1.960E-03	5.187E-04	3.903E-03	0.000E+00	7.929E+00
432	0.000E+00	0.000E+00	3.487E-02	0.000E+00		1.321E-03	4.188E-04	3.175E-03	0.000E+00	1.110E+01
433	0.000E+00	0.000E+00	3.48/E-02 3.272E-02	0.000E+00	4.048E-02 3.799E-02	1.257E-03 1.182E-03	3.970E-04	3.009E-03	0.000E+00	8.533E+00
434	0.000E+00	0.000E+00	2.278E-02	0.000E+00		7.1025-03	3.726E-04	2.824E-03	0.000E+00	7.705E+00
435	0.000E+00	0.000E+00	1.890E-02	0.000E+00	2.645E-02 2.189E-02	7.968E-04	2.591E-04	1.966E-03	0.000E+00	1.422E+01
436	0.000E+00	0.000E+00	1.590E-02		1.837E-02	6.612E-04 5.562E-04	2.147E-04	1.631E-03 1.372E-03	0.000E+00	1.126E+01
437	0.000E+00	0.000E+00		0.000E+00 0.000E+00	1.783E-02	5.370E-04	1.804E-04 1.747E-04	1.325E-03	0.000E+00	8.968E+00
438	0.000E+00	0.000E+00	1.535E-02 1.307E-02						0.000E+00	1.450E+01
439	0.000E+00	0.000E+00	1.056E-02	0.000E+00 0.000E+00	1.515E-02 1.224E-02	4.690E-04 4.682E-04	1.487E-04 1.209E-04	1.128E-03 9.117E-04	0.000E+00	1.171E+01
440	0.000E+00	0.000E+00	1.374E-02	0.000E+00	1.596E-02	4.806E-04		1.186E-03		1.035E+01
441	0.000E+00	0.000E+00	1.580E-02	0.000E+00	1.836E-02	5.524E-04	1.563E-04 1.798E-04	1.363E-03	0.000E+00 0.000E+00	1.359E+01
442	0.000E+00	0.000E+00	1.554E-02	0.000E+00	1.805E-02	5.438E-04	1.768E-04	1 3415-03	0.000E+00	1.218E+01
443	0.000E+00	0.000E+00	1.300E-02	0.000E+00	1.511E-02	5.659E-04	1.480E-04	1.341E-03 1.122E-03	0.000E+00	1.021E+01
444	0.000E+00	0.000E+00	1.262E-02	0.000E+00	1.467E-02	5.611E-04	1.437E-04	1.089E-03	0.000E+00	1.380E+01 1.167E+01
445	0.000E+00	0.000E+00	1.072E-02	0.000E+00	1.244E-02	3.767E-04	1.219E-04	9.254E-04	0.000E+00	1.048E+01
446	0.000E+00	0.000E+00	1.110E-02	0.000E+00	1.281E-02	3.8862-04	1.259E-04	9.580E-04	0.000E+00	1.314E+01
447	0.000E+00	0.000E+00	1.154E-02	0.000E+00	1.340E-02	4.046E-04	1 313E-04	9.961E-04	0.000E+00	1.151E+01
448	0.000E+00	0.000E+00	1.070E-02	0.000E+00	1.242E-02	3.877E-04	1.219E-04	9.236E-04	0.000E+00	1.035E+01
449	0.000E+00	0.000E+00	1.40ZE-02	0.000E+00	1.624E-02	4.905E-04	1.593E-04	1.210E-03	0.000E+00	1.281E+01
450	0.000E+00	0.000E+00	1.183E-02	0.000E+00	1.370E-02	4.905E-04 4.143E-04	1.344E-04	1.021E-03	0.000E+00	1.140E+01
451	0.000E+00	0.000E+00	9.786E-03	0.000E+00	1.135E-02	3.435E-04	1.113E-04	1.021E-03 8.445E-04	0.000E+00	1.045E+01
							3.222		3,155,00	3.4.02.42

0.000E+00 0.000E

\*\*\* PREDICTED FEAK 1-BOUR CONCENTRATIONS (ug/m3) FROM ALL SOURCES \*\*\*

RECEPTOR Pb Mm Hg Ni NAPTH PAH PROPL Se TOL XYLEN

1	8.390E-03	2.220E-02	0.000E+00	7.363E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2 3	6.265E-03 6.389E-03	1.656E-02	0.000E+00	5.499E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ĭ	1.082E-02	1.689E-02 2.861E-02	0.000E+00 0.000E+00	5.608E-04 9.492E-04	0.000E+00	0.000E+00	0.000Z+00	0.000E+00	0.000E+00	0.000E+00
5	1.047E-02	2.7692-02	0.000E+00	9.185E-04	0.000 <b>2+</b> 00 0.000 <b>E+</b> 00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.0002+00	0.000E+00	0.000E+00
6	1.021E-02	2.699E-02	0.000E+00	8.954E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
7	7.966E-03	2.104E-02	0.000E+00	6.989E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
8 9	7.705E-03 8.062E-03	2.037E-02	0.000E+00	6.763E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
10	1.222E-02	2.131E-02 3.236E-02	0.000E+00 0.000E+00	7.077E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
11	7.018E-03	1.855E-02	0.000E+00	1.073E-03 6.154E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.00CE+00	0.000E+00
12	1.632E-02	4.313E-02	0.000E+00	1.431E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
13	3.257E-02	8.607E-02	0.000E+00	2.856E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
14 15	3.359E-02	8.874E-02	0.000E+00	2.944E-03	0.000E+00	0.000 <b>Z+00</b>	0.000E+00	0.000E+00	0.000E+00	0.000E+00
16	3.399E-02 3.452E-02	8.979E-02 9.116E-02	0.000E+00	2.979E-03 3.025E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
17	1.159E-02	3.066E-02	0.000E+00 0.000E+00	1.017E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
18	9.096E-03	2.405E-02	0.000E+00	7.978E-04	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
19	1.024E-02	2.709E-02	0.000E+00	8.985E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
20	1.054E-02 2.532E-02	2.787E-02	0.000E+00	9.244E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
21 22	2.356E-02	6.737E-02 6.262E-02	0.000E+00	2.232E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
23	2.772E-02	7.347E-02	0.000E+00 0.000E+00	2.075E-03 2.436E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
24	3.612E-02	9.570E-02	0.000E+00	3.173E-03	0.000E+00	0.000 <del>2+</del> 00 0.000 <del>2+</del> 00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
25	3.793E-02	1.005E-01	0.000E+00	3.332E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00
26 27	3.362E-02	8.88E-02	0.000E+00	2.948E-03	0.000E+00	0.000E+00	0.300E+00	0.000E+00	0.000E+00	0.000E+00
28	2.557E-02 2.597E-02	6.735E-02 6.871E-02	0.000E+00	2.236E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
29	4.021E-02	1.064E-01	0.000E+00 0.000E+00	2.279E-03 3.530E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
30	4.601E-02	1.2172-01	0.000E+00	4.036E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
31	4.404E-02	1.164E-01	0.000E+00	3.861E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
32	3.654E-02	9.652E-02	0.000E+00	3.202E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
33 34	3.450E-02 3.480E-02	9.110E-02 9.194E-02	0.000E+00	3.023E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
35	2.379E-02	6.295E-02	0.000E+00 0.000E+00	3.050E-03 2.088E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
• 36	1.960E-02	5.184E-02	0.000E+00	1.720E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
37	2.138E-02	5.652E-02	0.000E+00	1.875E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
38	1.087E-02	2.876E-02	0.000E+00	9.538E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 a
39	1.172E-02	3.101E-02	0.000E+00	1.028E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
40 41	1.270E-02 1.631E-02	3.36ZE-02	0.000E+00	1.115E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
42	1.684E-02	4.319E-02 4.467E-02	0.000E+00 0.000E+00	1.432E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
43	8.862E-03	2.357E-02	0.000E+00	1.481E-03 7.808E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
44	6.410E-03	1.690E-02	0.000E+00	5.632E-04	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
45	7.999E-03	2.121E-02	0.000E+00	7.031E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
46 47	7.468E-03	1.981E-02	0.000E+00	6.567E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
48	8.330E-03 1.108E-02	2.215E-02 2.935E-02	0.000E+00	7.349E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
49	8.817E-03	2.343E-02	0.000E+00 0.000E+00	9.740E-04 7.782E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
50	1.041E-02	2.765E-02	0.000E+00	9.197E-04	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
51	1.041E-02	2.756E-02	0.000E+00	9.171E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
52 53	8.821E-03	2.336E-02	0.000E+00	7.768E-04	0.000E+00	9.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
54	6.919E-03 7.279E-03	1.835E-02 1.929E-02	0.000E+00	6.085E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
55	8.953E-03	2.369E-02	0.000E+00 0.000E+00	6.404E-04 7.880E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
56	1.028E-02	2.723E-02	0.000E+00	9.054E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
57	1.141E-02	3.017E-02	0.000E+00	1.002E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
58	1.231E-02	3.254E-02	0.000E+00	1.080E-03	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
59 60	1.360E-02 1.593E-02	3.593E-02	0.000E+00	1.193E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
51	2.742E-02	4.205E-02 7.280E-02	0.000E+00 0.000E+00	1.397E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
62	2.983E-02	7.935E-02	0.000E+00	2.418E-03 2.634E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
63	2.047E-02	5.408E-02	0.000E+00	1.796E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
64	1.843E-02	4.870E-02	0.000E+00	1.616E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
65	1.337E-02	3.540E-02	0.000E+00	1.175E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
66 67	1.574E-02 1.337E-02	4.172E-02 3.532E-02	0.000E+00	1.385E-03 1.173E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
68	1.178E-02	3.134E-02	0.000E+00 0.000E+00	1.038E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
69	1 781E-02	4.723E-02	0.000E+00	1.566E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
70	2.130E-02	5.643E-02	0.000E+00	1.871E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
71 72	2.130E-02 2.857E-02 1.654E-02	7.612E-02	0.000E+00	2.528E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
73	1 1067-02	4.375E-02 2.932E-02	0.000E+00	1.451E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
73 74	1.106E-02 1.402E-02	3.709E-02	0.000E+00 0.000E+00	9.721E-04 1.232E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
75	1.105E-02	2.924E-02	0.000E+00	9.703E-04	0.0002+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
76	1.130E-02	2.924E-02 2.992E-02	0.000E+00	9.924E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
77	1.251E-02	3.311E-02	0.000E+00	1.098E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
78 79	1.243E-02 1.394E-02	3.284E-02	0.000E+00	1.090E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
80	1.435E-02	3.684E-02 3.795E-02	0.000E+00	1.222E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
81	1.319E-02	3.492E-02	0.000E+00 0.000E+00	1.259E-03 1.158E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
82	1.244E-02	3.492E-02 3.297E-02	0.000E+00	1.093E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
83	1.244E-02 1.380E-02	3.658E-02	0.000E+00	1.213E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
84	1.431E-02	3.793E-02	0.000E+00	1.257E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
85 86	1.965E-02	5.206E-02	0.000E+00	1.726E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
87	4.113E-02 3.761E-02	1.092E-01 9.971E-02	0.000E+00 0.000E+00	3.619E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
88	3.654E-02	9.677E-02	0.000E+00	3.306Z-03 3.209E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
89	3.542E-02	9.372E-02	0.000E+00	3.108E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
90	3.129E-02	8.278E-02	0.000E+00	2.746E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
91	1.101E-02	2.913E-02	0.000E+00	9.671E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
92 93	1.144E-02 1.094E-02	3.026E-02	0.000E+00	1.005E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
94	1.149E-02	2.895E-02 3.035E-02	0.000E+00 0.000E+00	9.616E-04 1.008E-03	0.0005+00	0.000E+00	0.000E+00	0.000E+00	G.000E+00	0.000E+00
95	1.149E-02 1.225E-02	3.234E-02	0.000E+00	1.074E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
96	1.229E-0Z	3.254E-02	0.000E+00	1.079E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
97	1.472E-02	3.895E-02	0.000E+00	1.292E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

98	1.658E-02	4.391E-02	0.000E+00	1.456E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
99	1.440E-02	3.805E-02	0.000E+00	1.263E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
100 101	1.513E-02	4.009E-02	0.000E+00	1.329E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
102	1.412E-02 1.596E-02	3.733E-02 4.215E-02	0.000E+00	1.2382-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
103	1.123E-02	2.972E-02	0.000E+00 0.000E+00	1.400E-03 9.872E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
104	1.064E-02	2.816E-02	0.000E+00	9.356E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
105	1.142E-02	3.015E-02	0.000E+00	1.001E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
106 107	1.246E-02 1.362E-02	3.288E-02	0.000E+00	1.0922-03	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000Z+00
108	1.533E-02	3.605E-02 4.057E-02	0.000E+00 0.000E+00	1.196E-03 1.346E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
109	1.644E-02	4.346E-02	0.000E+00	1.442E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
110	1.608E-02	4.248E-02	0.000E+00	1.411E-03	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00 0.000E+00
111	1.355E-02	3.582E-02	0.000E+00	1.190E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
112 113	1.531E-02 1.764E-02	4.04 <i>5</i> E-02 4.659E-02	0.000E+00	1.342E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
114	1.845E-02	4.873E-02	0.000E+00 0.000E+00	1.546E-03 1.618E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
115	1.019E-02	2.699E-02	0.000E+00	8.971E-04	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
116 117	1.125E-02	2.972E-02	0.000E+00	9.866E-04	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00
118	1.257E-02 1.447E-02	3.320E-02	0.000E+00	1.102E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
119	1.701E-02	3.830E-02 4.501E-02	0.000E+00 0.000E+00	1.270E-03 1.493E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
120 121	1.804E-02	4.770E-02	0.000E+00	1.583E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
121	1.709E-02	4.517E-02	0.000E+00	1.500E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
122 123	1.510E-02 1.635E-02	3.990E-02	0.000E+00	1.326E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00CE+00
123 124 125 126 127 128	1.831E-02	4.319E-02 4.838E-02	0.000E+00 0.000E+00	1.433E-03 1.605E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
125	1.913E-02	5.052E-02	0.000E+00	1.678E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
126	1.993E-02	5.264E-02	0.000E+00	1.748E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
127	1.101E-02 1.260E-02	2.908E-02	0.000E+00	9.65ZE-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
129	1.487E-02	3.329E-02 3.939E-02	0.000E+00 0.000E+00	1.105E-03	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00
130	1.652E-02	4.375E-02	0.000E+00	1.306E-03 1.452E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.300E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
131	1.504E-02	3.982E-02	0.000E+00	1.322E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
132	1.871E-02	4.944E-02	0.000E+00	1.64ZE-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
133 134	1.632E-02 1.664E-02	4.314E-02 4.398E-02	0.000E+00	1.433E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
135	1.818E-02	4.803E-02	0.000E+00 0.000E+00	1.459E-03 1.594E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
136	2.392E-02	6.386E-02	0.000E+00	2.119E-03	0.000E+00	C.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
137	2.114E-02	5.582E-02	0.000E+00	1.854E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
138 139	2.062E-02	5.502E-02	0.000E+00	1.826E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
140	1.257E-02 1.467E-02	3.320E-02 3.889E-02	0.000E+00 0.000E+00	1.103E-03	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
141	1.683E-02	4.460E-02	0.000E+00	1.289E-03 1.480E-03	0.000E+00 0.000E+00	0.000E+00 0.00CE+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
142	1.547E-02	4.215E-02	0.000E+00	1.397E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
143	1.467E-02	3.985E-02	0.000E+00	1.321E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
144 145	1.666E-02 1.769E-02	4.402E-02	0.000E+00	1.463E-03	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
146	1.876E-02	4.675E-02 4.958E-02	0.000E+00 0.000E+00	1.551E-03 1.64 <i>5</i> E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
147	2.161E-02	5.708E-02	0.000E+00	1.896E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
148	2.638E-02	7.025E-02	0.000E+00	2.332E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
149 150	2.729E-02	7.263E-02	0.000E+00	2.410E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
151	2.649E-02 1.938E-02	7.039E-02 5.121E-02	0.000E+00 0.000E+00	2.336E-03 1.699E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
152 153	2.529E-02	6.762E-02	0.000E+00	2.244E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
153	2.894E-02	7.720E-02	0.000E+00	2.561E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
154 155	1.985E-02 2.839E-02	5.242E-02	0.000E+00	1.740E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
156	2.674E-02	7.542E-02 7.103E-02	0.000E+00 0.000E+00	2.504E-03 2.359E-03	0.000Z+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
157	1.306E-02	3.454E-02	0.000E+00	1.147E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
158	1.095E-02	2.911E-02	0.000E+00	9.663E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
159 160	7.056E-03	1.868E-02	0.000E+00	6.196E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
161	8.936E-03 9.405E-03	2.375E-02 2.487E-02	0.000E+00 0.000E+00	7.871E-04 8.254E-04	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.0000000	0.000E+00
162	9.476E-03	2.503E-02	0.000E+00	8.314E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
163	1.046E-02	2.761E-02	0.000E+00	9.171E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
164	1.035E-02	2.740E-02	0.000E+00	9.087E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
165 166	1.605E-02 1.737E-02	4.244E-02 4.592E-02	0.000E+00 0.000E+00	1.408E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
167	1.465E-02	3.870E-02	0.000E+00	1.524E-03 1.284E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
168	9.208E-03	2.438E-02	0.000E+00	8.086E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
169	7.677E-03	2.033E-02	0.000E+00	6.742E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
170 171	1.008E-02 9.908E-03	2.666E-02 2.620E-02	0.000E+00	8.848E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
172	1.112E-02	2.937E-02	0.000E+00 0.000E+00	8.698E-04 9.753E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
173	1.085E-02	2.877E-02	0.000E+00	9.537E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
174	1.584E-02	4.192E-02	0.000E+00	1.390E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
175 176	1.543E-02 1.644E-02	4.082E-02 4.341E-02	0.000E+00	1.354E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
177	1.760E-02	4.648E-02	0.000E+00 0.000E+00	1.440E-03 1.543E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
178	1.115E-02	2.948E-02	0.000E+00	9.791E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
179	8.299E-03	2.199E-02 3.035E-02	0.000E+00	9.791E-04 7.291E-04	0.000E+00	0.000E+00	0.300E+00	0.000E+00	0.000E+00	0.000E+00
180 181	1.148E-02 1.148E-02	3.035E-02 3.032E-02	0.000E+00	1.008E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
182	1.444E-02	3.820E-02	0.000E+00 0.000E+00	1.007E-03 1.267E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
183	1.522E-02	4.030E-02	0.000E+00	1.336E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
184	1.401E-02	3.703E-02	0.000E+00	1.229E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
185 186	1.859E-02 1.821E-02	4.910E-02	0.000E+00	1.629E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
187	1.705E-02	4.809E-02 4.503E-02	0.000E+00 0.000E+00	1.596Z-03 1.494E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
188	1.424E-02	3.774E-02	0.000E+00	1.251E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
189	9.1662-03	2.429E-02	0.000E+00	8.068E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
190 191	1.135E-02 1.557E-02	2.997E-02	0.000E+00	9.948E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
192	1.657E-02	4.119E-02 4.379E-02	0.000E+00 0.000E+00	1.366E-03 1.454E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
193	1.657E-02 1.693E-02	4.473E-02	0.000E+00	1.484E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
194	1.976E-02	5.217E-02	0.000E+00	1.732E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

195	1.808E-02	4.772E-02	0.000E+00	1.585E-03	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
196 197	1.787E-02	4.717E-02	0.000E+00	1.566E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
198	1.580E-02 1.705E-02	4.173E-02 4.522E-02	0.000E+00 0.000E+00	1.386E-03 1.499E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00
199	1.070E-02	2.8278-02	0.000E+00	9.380E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00
200	1.608E-02	4.263E-02	0.000E+00	1.415E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
201	1.782E-02	4.710E-02	0.000E+00	1.563E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
202 203	2.634E-02 1.737E-02	6.998E-02 4.585E-02	0.000E+00	2.324E-03	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
204	1.414E-02	3.736E-02	0.000E+00 0.000E+00	1.523E-03 1.241E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
205	1.292E-02	3.413E-02	0.000E+00	1.133E-03	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00
206	1.087E-02	2.877E-02	0.000E+00	9.557E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
207	9.938E-03	2.630E-02	0.000E+00	8.750E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
208 209	5.137E-03 6.676E-03	1.358E-02	0.000E+00	4.512E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
210	7.388E-03	1.766E-02 1.955E-02	0.000E+00 0.000E+00	5.860E-04 6.484E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
211	6.392E-03	1.688E-02	0.000E+00	5.613E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
212	8.387E-03	2.218E-02	0.000E+00	7.363E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
213	9.685E-03	2.56ZE-02	0.000E+00	8.499E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
214 215	7.619E-03 9.881E-03	2.016E-02	0.000E+00	6.687E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
216	9.439E-03	2.613E-02 2.496E-02	0.000E+00 0.000E+00	8.667E-04 8.279E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
217	9.999E-03	2.644E-02	0.000E+00	8.771E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
218	8.916E-03	2.357E-02	0.000E+00	7.821E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
219	1.141E-02	3.021E-02	0.000E+00	1.002E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
220 221	6.803E-03 4.065E-03	1.802E-02 1.076E-02	0.000E+00 0.000E+00	5.976E-04 3.570E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
221 222	5.595E-03	1.479E-02	0.000E+00	4.912E-04	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
223	6.616E-03	1.748E-02	0.000E+00	5.806Z-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
224	7.155E-03	1.890E-02	0.000E+00	6.278E-04	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00
225 226	7.224E-03 8.042E-03	1.909E-02	0.000E+00	6.339E-04	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00
227	7.586E-03	2.127E-02 2.008E-02	0.000E+00 0.000E+00	7.058E-04 6.659E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
227 228	6.480E-03	1.716E-02	0.000E+00	5.691E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
229	6.644E-03	1.758E-02	0.000E+00	5.832E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
230	7.927E-03	2.098E-02	0.000E+00	6.957E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
231 232	6.979E-03 9.233E-03	1.844E-02 2.442E-02	0.000E+00	6.130E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
233	1.010E-02	2.670E-02	0.000E+00 0.000E+00	8.104E-04 8.858E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
234	8.871E-03	2.347E-02	0.000E+00	7.783E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
235 236	9.991E-03	2.641E-02	0.000E+00	8.762E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
236	1.045E-02	2.763E-02	0.000E+00	9.166E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
237 238	9.274E-03 1.137E-02	2.452E-02 3.015E-02	0.000E+00 0.000E+00	8.135E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
239	6.730E-03	1.783E-02	0.000E+00	9.995E-04 5.913E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
240	6.085E-03	1.609E-02	0.000E+00	5.341E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
241	6.462 <b>E-0</b> 3	1.707E-02	0.000E+00	5.669E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
242	7.651E-03	2.021E-02	0.000E+00	6.712E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
243 244	7.426E-03 9.224E-03	1.963E-02	0.000E+00	6.517E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
245	1.047E-02	2.440E-02 2.766E-02	0.000E+00 0.000E+00	8.094E-04 9.183E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
246	6.442E-03	1.704E-02	0.000E+00	5.655E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
247	7.827E-03	2.071E-02	0.000E+00	6.870E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
248	7.828E-03	2.072E-02	0.000E+00	6.871E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
249 250	6.485E-03 8.521E-03	1.716E-02 2.254E-02	0.000E+00	5.692E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
251	7.498E-03	1.982E-02	0.000E+00 0.000E+00	7.476E-04 6.586E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
252 253	1.037E-02	2.743E-02	0.000E+00	9.100E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
253	9.921E-03	2.624E-02	0.000E+00	8.704E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
254 255	1.088E-02	2.8762-02	0.000E+00	9.542E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
256	1.071E-02 9.637E-03	2.832E-02 2.548E-02	0.000E+00 0.000E+00	9.397E-04 8.453E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
257	1.104E-02	2.929E-02	0.000E+00	9.709E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
258	6.822E-03	1.807E-02	0.000E+00	5.992E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
259	6.972E-03	1.844E-02	0.000E+00	6.120E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
260 261	7.846E-03 7.614E-03	2.073E-02 2.011E-02	0.000E+00	6.883E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
262	1.074E-02	2.841E-02	0.000E+00 0.000E+00	6.681E-04 9.423E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
263	1.152E-02	3.045E-02	0.000E+00	1.011E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
264	1.354E-02	3.578E-02	0.000E+00	1.188E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
265 266	8.193E-03 7.413E-03	2.168E-02 1.962E-02	0.000E+00	7.192E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
266 267	7.413E-03 7.355E-03	1.962E-02 1.946E-02	0.000E+00 0.000E+00	6.508E-04 6.455E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00
268	8.798E-03	2.328E-02	0.000E+00	7 7718-04	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
269	7.199E-03	1.906E-02	0.000E+00	6.322E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
270	9.158E-03	2.422E-02	0.000E+00	8.034E-04	0.000E+G0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
271 272	8.130E-03 1.182E-02	2.151E-02	0.000E+00	7.140E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
273	1.173E-02	3.124E-02 3.101E-02	0.000E+00 0.000E+00	1.036E-03 1.029E-03	0.000E+00	0.000E+00	0.000Z+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
274	1.040E-02	2.748E-02	0.000E+00	9.117E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000 <del>2+</del> 00 0.000 <del>2+</del> 00	0.000E+00 0.000E+00
275	9.992E-03	2.642E-02	0.000E+00	9 7662-06	0.000E+00 0.000E+00	0.600E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
276	1.035E-02	2.750E-02	0.000E+00	9.114E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
277 278	7.114E-03 8.559E-03	1.882E-02 2.261E-02	0.000E+00 0.000E+00	9.114E-04 6.245E-04 7.508E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
279	8.923E-03	2.357E-02	0.000E+00	7.828E-04	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
280	8.923E-03 1.279E-02	3.383E-02	0.000E+00	1.122E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
281	1.258E-02	3.324E-02	0.000E+00	1.103E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
282	1.517E-02	4.007E-02	0.000E+00	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
283 284	1.333E-02	3.521E-02 2.232E-02	0.000E+00	1.169E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
285	8.442E-03 8.983E-03	2.376E-02	0.000E+00 0.000E+00	7.410E-04 7.885E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
286	9.116E-03	2.412E-02	0.000E+00	8.002E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
287	8.378E-03	2.218E-02	0.000E+00	7.355E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
288 289	8.888E-03 9.232E-03	2.351E-02	0.000E+00	7.799E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
290	9.814E-03	2.443E-02 2.595E-02	0.000E+00 0.000E+00	8.102E-04 8.609E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
291	9.414E-03	2.491E-02	0.000E+00	8.263E-04	0.000E+00		0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
							1.0302.00	U. UUULTUU	V. GUGETUU	U. GUULTUU

292	1.866E-02	4.954E-02	0.000E+00	1.646E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
293	1.210E-02	3.201E-02	0.000E+00	1.062E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
294	1.577E-02	4.165E-02	0.000E+00	1.383E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
295	1.536E-02	4.057E-02	0.000E+00	1.347E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
296	1.290E-02	3.409E-02	0.000E+00	1.133E-03	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000Z+00
297	6.806E-03	1.798E-02	0.000E+00	5.975E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.900E+00
298	7.763E-03	2.052E-02	0.000E+00	6.815E-04	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
299	8.641E-03	2.285E-02	0.000E+00	7.584E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
300	9.580E-03	2.534E-02	0.000E+00	8.407E-04	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
301	1.030E-02	2.724E-02	0.000E+00	9.036E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
302	9.754E-03	2.581E-02	0.000E+00	8.561E-04	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
303	1.071E-02	2.834E-02	0.000E+00	9.400E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
304	1.044E-02	2.761E-02	0.000E+00	9.159E-04	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
305 306	1.214E-02 1.461E-02	3.211E-02	0.000E+00	1.065E-03	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
307	1.241E-02	3.860E-02	0.000E+00	1.282E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
308		3.2782-02	0.000E+00	1.088E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
309	1.112E-02 4.723E-03	2.940E-02	0.000E+00	9.765E-04	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
		1.252E-02	0.000E+00	4.150E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
310	5.649E-03	1.491E-02	0.000E+00	4.960E-04	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
311 312	6.781E-03 7.586E-03	1.790E-02	0.000E+00	5.955E-04	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
313		2.005E-02	0.000E+00	6.660E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
314	8.437£-03 9.945E-03	2.231E-02 2.631E-02	0.000E+00	7.404E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
315	1.176E-02	3.111E-02	0.000E+00	8.726E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
316	1.173E-02		0.000E+00	1.032E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
317	1.2242-02	3.103E-02 3.243E-02	0.0000+00	1.029E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
318	1.105E-02	2.923E-02	0.0002	1.075E-03	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
319	9.521E-03	2.519E-02	0.0002+00	9.709E-04	0.000E+00	9.00 <del>0E+00</del>	0.000E+00	0.000E+00	0.000E+00	0.000E+00
320	6.932E-03	1.834E-02	0.000E+00	8.375E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
321	9.391E-03	2.492E-02	0.0002+00	6.098E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
322	9.533E-03	2.530E-02	0.000E+00 0.000E+00	8.261E-04 8.387E-04	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
323	9.668E-03	2.567E-02	0.000E+00	8.507E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
324	9.783E-03	2.598E-02					0.000E+00	0.000E+00	0.000E+00	0.000E+00
325	9.855E-03	2.617E-02	0.000E+00 0.000E+00	8.609E-04 8.674E-04	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
326	1.027E-02	2.718E-02	0.000E+00	9.015E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
327	1.218E-02	3.225E-02	0.000E+00	1.069E-03	0.000E+00	G.000E+00		0.000E+00	0.000E+00	0.000E+00
328	1.396E-02	3.694E-02	0.000E+00	1.225E-03	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
329	1.561E-02	4.130E-02	0.000E+00	1.370E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
330	7.786E-03	2.059E-02	0.000E+00	6.831E-04	0.000E+00	0.000E+00	0.000E+00 0.000E+00		0.000E+00	0.000E+00
331	7.613E-03	2.014E-02	0.000E+00	6.682E-04	0.000E+00	0.000E+00		0.000E+00		0.000E+00
332	7.702E-03	2.038E-02	0.000E+00			0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
333	2 573E-02	6.807E-02	0.000E+00	6.761E-04 2.258E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00
334	2.573E-02 2.691E-02	7.118E-02	0.000E+00	2.361E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
335	2.815E-02	7.446E-02	0.000E+00	2.470E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
336	2.943E-02	7.784E-02	0.000E+00	2.582E-03	0.000E+00	0.000E+00			0.000E+00	0.000E+00
337	3.068E-02	8.113E-02	0.000E+00	2.691E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
338	3.171E-02	8.385E-02	0.000E+00	2.782E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
339	3.218E-02	8.510E-02	0.000E+00	2.823E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
340	3.124E-02	8.262E-02	0.000E+00	2.740E-03	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
341	7.424E-03	1.969E-02	0.000E+00	6.527E-04	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
342	8.581E-03	2.270E-02	0.000E+00	7.534E-04	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00
343	8.752E-03	2.315E-02	0.000E+00	7.687E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
344	8.110E-03	2.144E-02	0.000E+00	7.126E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
345	7.079E-03	1.871E-02	0.000E+00	6.221E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
346	3.021E-02	7.992E-02	0.000E+00	2.651E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
347	3.045E-02	8.057E-02	0.000E+00	2.672E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
348	3.064E-02	8.108E-02	0.000E+00	2.689E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
349	3.084E-02	8.161E-02	0.000E+00	2.707E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
350	3.116E-02	8.246E-02	0.000E+00	2.735E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
351	3.176E-02	8.405E-02	0.000E+00	2.787E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
352	3.280E-02	8.682E-02	0.000E+00	2.879E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
353	3.421E-02	9.058E-02	0.000E+00	3.004E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
354	7.542E-03	1.997E-02	0.000E+00	6.633E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
355	6.278E-03	1.660E-02	0.000E+00	5.516E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
356	5.659E-03	1.495E-02	0.000E+00	4.970E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
357	5.224E-03	1.380E-02	0.000E+00	4.588E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
358	4.876E-03	1.288E-02	0.000E+00	4.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
359	2.406E-02	6.352E-02	0.000E+00	2.108E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
360	2.405E-02	6.350E-02	0.000E+00	2.107E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
361	2.398E-02	6.328E-02	0.000E+00	2.100E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
362	2.379E-02	6.278E-02	0.000E+00	2.083E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
363	2.346E-02	6.188E-02	0.000E+00	2.054E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
364	2.305E-02	6.076E-02	0.000E+00	2.017E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
365	2.264E-02	5.9662-02	0.000E+00	1.980E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366	2.214E-02	5.833E-02	0.000E+00	1.937E-03	0.000E+00	0.000E+00	0.000E+00	0.00CE+00	0.000E+00	0.000E+00
367	2.255E-02	5.938E-02	0.000E+00	1.972E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368	1.853E-02	4.898E-02	0.000E+00	1.625E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369	9.733E-03	2.586E-02	0.000E+00	8.569E-04	0.000E+00	0.000E+00	0.000E+60	0.00CE+00	0.000E+00	0.000E+00
370	5.842E-03	1.544E-02	0.000E+00	5.126E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371	6.754E-03	1.791E-02	0.000E+00	5.936E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372	6.234E-03	1.653E-02	0.000E+00	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
373	5.764E-03	1.525E-02	0.000E+00	5.059E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
374	5.283E-03	1.398E-02	0.000E+00	4.637E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
375	6.847E-03	1.810E-02	0.000E+00	6.010E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
376	7.3762-03	1.950E-02	0.000E+00	6.474E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
377 378	7.699E-03	2.035E-02	0.000E+00	6.757E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
378	7.714E-03	2.039E-02	0.000E+00	6.773E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
379	7.227E-03	1.909E-02	0.000E+00	6.349E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00
380 381	6.800E-03 9.589E-03	1.801E-02	0.000E+00	5.981E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
382	7.3075-03	2.532E-02	0.000E+00	8.403E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
382 383	1.107E-02 2.910E-02	2.923E-02	0.000E+00	9.712E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
384		7.683E-02	0.00000	2.549E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
385	3.494E-02 3.004E-02	9.229E-02	0.000E+00	3.06ZE-03 2.634E-03	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.00000	0.000E+00
386	2 1508-02	7.941E-02 5.682E-02	0.000E+00	4.6345-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
387	2.150E-02 1.331E-02	3.517E-02	0.000E+00 0.000E+00	1.885E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
388	1.178E-02	3.120E-02	0.000E+00	1.167E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	2,2/95-92	v	0.0005700	1.035E-03	0.000E+00	V. 4002700	0.000E+00	0.000E+00	0.000E+00	0.000E+00

389	1.257E-02	3.327E-02	0.000E+00	1.103E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
								0.000E+00	0.000E+00	0.000E+00
390	4.195E-03	1.116E-02	0.000E+00	3.696E-04	0.000E+00	0.000E+00	0.000E+00			
391	4.369E-03	1.154E-02	0.000E+00	3.835E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
392	4.814E-03	1.272E-02	0.000E+00	4.225E-04	0.000E+00	0.000Z+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
393	5.018E-03	1.3262-02	0.000E+00	4.404E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
394	6.309E-03	1.667E-02	0.000E+00	5.540E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
									0.000E+00	0.000E+00
395	5.761E-03	1.522E-02	0.000E+00	5.060E-04	0.000E+00	0.000E+00	a.000E+00	0.000E+00		
396	5.185E-03	1.372E-02	0.000E+00	4.555E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
								0.000E+00	0.000E+00	0.000E+00
397	5.919E-03	1.566E-02	0.000E+00	5.201E-04	0.000E+00	0.000E+00	0.000E+00			
398	6.424E-03	1.697E-02	0.000E+00	5.633E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
399	9.487E-03	2.505E-02	0.000E+00	8.318E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
400	8.406E-03	2.220E-02	0.000E+00	7.381E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
401	1.315E-02	3.477E-02	0.000E+00	1.153E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
402	2.841E-02	7.507E-02	0.000E+00	2.490E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
403	3.476E-02	9.181E-02	0.000E+00	3.046E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
						0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
404	2.656E-02	7.022E-02	0.000E+00	2.329E-03	0.000E+00					
405	1.854E-02	4.900E-02	0.000E+00	1.625E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
406	1.091E-02	2.886Z-02	0.000E+00	9.573E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
407	1.030E-02	2.724E-02	0.000E+00	9.037E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
408	1.036E-02	2.742E-02	0.000E+00	9.095E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
									0.000E+00	0.000E+00
409	1.094E-02	2.896E-02	0.000E+00	9.606E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00		
410	3.747E-03	9.954E-03	0.000E+00	3.299E-04	0.000E+00	0.000 <b>2+00</b>	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	3.808E-03		0.000E+00	3.352E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
411		1.011E-02								
412	3.773E-03	9.984E-03	0.000E+00	3.311E-04	0.000E+00	0.000Z+00	0.000E+00	0.000E+00	0.000E+00	0.000 <b>E+</b> 00
413	8.609E-03	2.274E-02	0.000E+00	7.552E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	Q.000E+00
414	5.620E-03	1.485E-02	0.000E+00	4.937E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
415	5.778 <b>2-</b> 03	1.540E-02	0.000E+00	5.118E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
					0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
416	6.760E-03	1.786E-02	0.000 <b>E+</b> 00	5.938E-04						
417	4.374E-03	1.172E-02	0.000E+00	3.896E-04	0.000E+00	0.000E+00	0.000E+60	0.000E+00	0.000E+00	0.000E+00
418	7.561E-03	2.000E-02	0.000E+00	6.634E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
419	5.623E-03	1.489E-02	0.000E+00	4.937E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
420	1.363E-02	3.609E-02	0.000E+00	1.197E-03	0.000E+00	0.000E+00	0_000E+00	0.000E+00	0.000E+00	0.000E+00
								0.000E+00	0.000E+00	0.000E+00
421	2.160E-02	5.709E-02	0.000E+00	1.896E-03	0.000E+00	0.000E+00	0.000E+00			
422	2.284E-02	6.043E-02	0.000E+00	2.005E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
423	2.169E-02			1.905E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	G.000E+00
		5.733E-02	0.000E+00							
424	2.100E-02	5.551E-02	0.000E+00	1.842E-03	0_000E+00	0.000E+00	0.00GE+00	0.000E+00	0.000E+00	0.000E+00
425	3.133E-02	8.273E-02	0.000E+00	2.748E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
-23										
426	3.009E-02	7.946E-02	0.000E+00	2.644E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
427	2.859E-02	7.552E-02	0.000E+00	2.506E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0_000E+00
									0.000E+00	0.000E+00
428	3.380E-02	8.928E-02	0.000E+00	2.96ZE-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00		
429	3.224E-02	8.517E-02	0.000E+00	2.826E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
430	3.053E-02		0.000E+00	2.677E-03	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00
		8.068E-02								
431	2.478E-02	6.554E-02	0.000E+00	2.174E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
432	2.349E-02	6.211E-02	0.000E+00	2.060E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
									0.000E+00	0.000E+00
433	2.204E-02	5.829E-02	0.000E+00	1.934E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00		
434	1.535E-02	4.058E-02	0.000E+00	1.346E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
435	1.271E-02	3.363E-02	0.000E+00	1.115E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
436	1.067E-02	2.825E-02	0.000E+00	9.369E-04	0.000E+00	0.G00E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
437	1.034E-02	2.735E-02	0.000E+00	9.074E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
		2.7335702						0.000E+00	0.000E+00	0.000E+00
438	8.793 <b>E-</b> 03	2.326E-02	0.000E+00	7.716E-04	0.000E+00	0.000E+00	0.000E+00			
439	7.098E-03	1.878E-02	0.000E+00	6.233E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
440				8.122E-04			0.000E+00	0.000E+00	0.000E+00	0.000E+00
	9.261E-03	2.449E-02	0.000E+00		0.000E+00	0.000E+00				
441	1.065E-02	2.816E-02	0.000E+00	9.340E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
442	1.047E-02	2.769E-02	0.000E+00	9.187E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
443	8.767E-03	2.318E-02	0.000E+00	7.688E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
444	8.510E-03	2.250E-02	0.000E+00	7.463E-04	0.000E+00	0.000E+00	0.000E+00	0.0C0E+00	0.000E+00	0.000E+00
							0.000E+00	0.000E+G0	0.000E+00	0.000E+00
445	7.219E-03	1.910E-02	0.000E+00	6.334E-04	G.000E+00	0.000E+00				
446	7.443E-03	1.972E-02	0.000E+00	6.538E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
447	7.777E-03	2.056E-02	0.000E+00	6.822E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
448	7.209E-03	1.906E-02	0.000E+00	6.325E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
449	9.428E-03	2.495E-02	0.000E+00	8.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
								0.000E+00	0.000E+00	0.000E+00
450	7.952E-03	2.104E-02	0.000E+00	6.979E-04	0.000E+00	0.000E+00	0.000E+00			
451	6.587E-03	1.742E-02	0.000E+00	5.780E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
				·						

0.000E+00 0.000E

### \*\*\* FREDICTED PEAK 1-HOUR CONCENTRATIONS (ug/m3) FROM ALL SOURCES \*\*\*

RECEPTOR	Zn	NIXPM
123456789910111213	1.638E-03 1.221E-03 1.245E-03 2.108E-03 2.040E-03 1.548E-03 1.502E-03 1.570E-03 2.390E-03 1.178E-03 6.338E-03	2.828E+02 2.112E+02 3.54E+02 3.541E+02 3.541E+02 2.686E+02 2.597E+02 2.720E+02 4.120E+02 2.363E+02 1.098E+03
14	6.533E-03	1.132E+03

111112222222223333333333333444444444456789012345678901245678901245678901245678901245678901245678901245678901245678901245678901245678901245678901245678901245678901245678901400000000000000000000000000000000000	6.608E-033 6.707E-033 2.262E-033 1.773E-033 1.773E-033 1.773E-033 1.773E-033 1.773E-033 1.773E-033 1.773E-033 1.773E-033 1.779E-033 1.779E-033 1.7079E-033 1.7079E	1.145E+03 3.909E+02 3.453E+02 3.453E+02 3.453E+02 3.453E+02 3.453E+02 3.453E+02 1.282E+03 1.124E+03 1.125E+03 1.125E+03 1.126E+03 1.126E+03 1.126E+03 1.126E+03 1.126E+02 1.354E+02 1.354E+02 1.354E+02 1.373E+02 1.373E
---	--	--

250	209 1.304E-03 2.251E+02 210 1.443E-03 2.489E+02 211 1.243E-03 2.156E+02 212 1.635E-03 2.828E+02 213 1.890E-03 3.264E+02 215 1.926E-03 3.331E+02 216 1.840E-03 3.182E+02 217 1.949E-03 3.371E+02 218 1.738E-03 3.006E+02 219 2.235E-03 3.849E+02 220 1.333E-03 2.296E+02 221 7.941E-04 1.369E+02 222 1.091E-03 1.887E+02 222 1.091E-03 1.887E+02 222 1.091E-03 2.435E+02 222 1.569E-03 2.708E+02 225 1.406E-03 2.435E+02 226 1.569E-03 2.708E+02 227 1.482E-03 2.556E+02 228 1.268E-03 2.182E+02 229 1.297E-03 2.40E+02 231 1.358E-03 2.355E+02 231 1.358E-03 2.355E+02 231 1.358E-03 3.112E+02 231 1.358E-03 3.112E+02 231 1.358E-03 3.53E+02 232 1.801E-03 3.112E+02 233 1.969E-03 3.53E+02 234 1.731E-03 2.990E+02 235 1.946E-03 3.368E+02 237 1.808E-03 3.523E+02 238 2.232E-03 3.363E+02 239 1.319E-03 3.126E+02 240 1.186E-03 2.579E+02 241 1.257E-03 2.177E+02 242 1.488E-03 2.556E+02 244 1.799E-03 3.106E+02 245 2.038E-03 2.553E+02 246 1.257E-03 2.177E+02 247 1.529E-03 2.638E+02 248 1.530E-03 3.531E+02 247 1.529E-03 2.638E+02 248 1.530E-03 2.637E+02 247 1.529E-03 2.638E+02 248 1.530E-03 2.637E+02 247 1.529E-03 2.638E+02 248 1.530E-03 2.637E+02 249 1.266E-03 2.871E+02 245 2.038E-03 3.342E+02 255 2.038E-03 3.342E+02 255 1.461E-03 2.529E+02 255 1.461E-03 2.529E+02 255 2.038E-03 3.495E+02 255 2.038E-03 3.342E+02
-----	--

33333333333333333333333333333333333333	2.843E-033 2.167E-043 1.37E-033 2.167E-033 1.37E-033 1.37E-033 1.37E-033 1.37E-033 1.37E-033 1.37E-033 1.37E-033 1.37E-033 1.37E-033 1.38E-033 1.38E-033 1.38E-033 1.38E-033 1.38E-033 1.38E-033 1.38E-033 1.48E-033 1.519E-033 1.519E-033 1.519E-033 1.519E-033 1.519E-033 1.519E-033 1.519E-033 1.519E-033 1.519E-033 1.519E-033 1.52E-033 1.52E-033 1.52E-033 1.53FE-035	6.250E+02 3.289E+02 2.280E+02 2.102E+02 1.971E+02 2.309E+02 2.309E+02 2.488E+02 2.597E+02 2.603E+02 2.440E+02 3.736E+02 3.736E+02 9.798E+02 1.176E+03 1.013E+03 7.254E+02 4.485E+02 3.976E+02 1.474E+02 1.624E+02 1.474E+02 1.624E+02 1.474E+02 1.624E+02 1.474E+02 1.624E+02 1.945E+02 1.945E+02 1.945E+02 2.129E+02 2.165E+02 3.198E+02 2.1839E+02
402	2.561E-03 5.527E-03	4.424E+02 9.557E+02

	/ 70CT 00	
403	6.755E-03	1.170E+03
404	5.178E-03	8.954E+02
405	3.610E-03	
		6.251E+02
406	2.127E-03	3.680E+02
407	2.007E-03	3.474E+02 3.496E+02
	2.0072-03	3.4/46702
408	2.025E-03	3.496E+02
409	2.138E-03	3.690E+02
	2.1302 03	3.0702702
410	7.398E-04 7.511E-04	1.267E+02
411	7 511F-04	1.284E+02
	7 2708-04	1 2707 . 02
412	7.370E-04	1.272E+02
413	1.673E-03	2.903E+02
414	1.094E-03	1.898E+02
		1.0705702
415	1.151E-03	1.966E+02
416	1.315E-03 8.846E-04	2.283E+02
417	2 2465-06	1.497E+02
	0.0405-04	
418	1.474E-03	2.543E+02
419	1.100E-03	1.889E+02
	1.1002 00	
420	2.667E-03	4.588E+02
421	4.206E-03	7.282E+02
422	4.459E-03	7.702E+02
		7.7025702
423	4.223E-03	7.322E+02
424	4.089E-03	7.066E+02
		7.0000,02
425	6.085E-03	1.056E+03
426	5.844E-03	1.016E+03
427	5.558E-03	9.618E+02
428	6.570E-03	1.138E+03
429	6.270E-03	1.086E+03
	5.2/02 00	
430	5.941E-03	1.029E+03
431	4.833E-03	8.357E+02
432	4.580E-03	7 001E+00
	4.2005-03	7.921E+02 7.433E+02
433	4.298E-03	7.433E+02
434	2.992E-03	5.173E+02
		3.1735702
435	Z.483E-03	4.283E+02
436	2.088E-03 2.017E-03	3.594E+02
437	2 0175-03	3.487E+02
	2.01/5 00	3.46/2702
438	1.716E-03	2.964E+02
439	1.387E-03	2.393E+02
440	1.805E-03	3 1717407
	1.8032-03	3.121E+02 3.590E+02
441	2.075E-03	3.590E+02
442	2.041E-03	3.531E+02
443	1.708E-03	
	1./082-03	2.955E+02
444	1.658E-03	2.868E+02
445	1.408E-03	2.868E+02 2.434E+02
	1.7005 703	4.7075TU2
446	1.458E-03	2.512E+02
447	1.516E-03	2.621E+02
448	1.406E-03	2 1305-00
	1.4005-03	2.430E+02 3.178E+02
449	1.842E-03	3.178E+02
450	1.553E-03	2.682E+02
	1.3305-03	2.00ZETUZ
451	1.285E-03	2.219E+02

0.000E+00 0.000E+00

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET, FM10 \* CUTFUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\GQpmaCE.OUT 11/14/96 07:00:20 Fage - 82

#### \*\*\* FREDICTED ANNUAL CONCENTRATIONS (ug/m3) FROM ALL SOURCES \*\*\*

RECEPTOR	ACETA	ACROL	Аз	BENZE	Be	Cq	Cz	Cu	ECEO	ECN
,	0.000E+00	0.000E+00	3.310E-05	0.000E+00	1.904E-06	1.212E-06	2.028E-07	2.780E-06	0.000E+00	1.076E-01
<del>,</del>	0.000E+00	0.000E+00	4.961E-05	0.000E+00	2.494E-06	1.792E-06	3.020E-07	4.165E-06	0.000E+00	1.098E-01
3	0.000E+00	0.000E+00	4.927E-05	0.000E+00	2.457E-06	1.780E-06	2.998E-07	4.137E-06	0.000E+00	1.091E-01
ĭ	0.000E+00	0.000E+00	6.400E-05	0.000E+00	3.405E-06	2.327E-06	3.907E-07	5.375E-06	0.000E+00	1.637E-01
Š	0.000E+00	0.000E+00	6.458E-05	0.000E+00	3.440E-06	2.347E-06	3.942E-07	5.423E-06	0.000E+00	1.606E-01
5	0.000E+00	0.000E+00	5.864E-05	0.000E+00	3.185E-06	2.132E-06	3.583E-07	4.924E-06	0.000E+00	1.451E-01
7	0.000E+00	0.000E+00	5.180E-05	0.000E+00	2.757E-06	1.879E-06	3.161E-07	4.350E-06	0.000E+00	1.011E-01
8	0.000E+00	0.000E+00	5.209E-05	0.000E+00	3.046E-06	1.896E-06	3.193E-07	4.375E-06	0.000E+00	1.013E-01
ğ	0.000E+00	0.000E+00	5.411E-05	0.000E+00	3.296E-06	1.972E-06	3.323E-07	4.544E-06	0.000E+00	1.048E-01
10	0.000E+00	0.000E+00	6.869E-05	0.000E+00	3.726E-06	2.525E-06	4.199E-07	5.769E-06	0.000E+00	3.612E-01
11	0.000E+00	0.000E+00	2.801E-05	0.000E+00	1.558E-06	1.017E-06	1.713E-07	2.352E-06	0.000E+00	7.910E-02
12	0.000E+00	0.000E+00	1.215E-04	0.000E+00	7.191E-06	4.408E-06	7.452E-07	1.021E-05	0.000E+00	5.094E-01
13	0.000E+00	0.000E+00	5.263E-05	0.000E+00	4.083E-06	1.96ZE-06	3.278E-07	4.422E-06	0.000E+00	4.054E-01
14	0.000E+00	0.000E+00	5.307E-05	0.000E+00	4.118E-06	1.977E-06	3.306E-07	4.459E-06	0.000E+00	4.186E-01
15	0.000E+00	0.000E+00	5.169E-05	0.000E+00	4.034E-06	1.930E-06	3.222E-07	4.344E-06	0.000E+00	3.973E-01
16	0.000E+00	0.000E+00	5.874E-05	0.000E+00	4.532E-06	2.190E-06	3.658E-07	4.936E-06	0.000E+00	5.410E-01
17	0.000E+00	0.000E+00	3.100E-05	0.000E+00	1.772E-06	1.125E-06	1.898E-07	2.603E-06	0.000E+00	8.143E-02
18	0.000E+00	0.000E+00	4.675E-05	0.000E+00	2.931E-06	1.707E-06	2.875E-07	3.926E-06	0.000E+00	1.774E-01
19	0.000E+00	0.000E+00	4.637E-05	0.000E+00	3.303E-06	1.723E-06	2.874E-07	3.895E-06	0.000E+00	2.230E-01
20	0.000E+00	0.000E+00	6.509E-05	0.000E+00	4.498E-06	2.391E-06	4.025E-07	5.468E-06	0.000E+00	4.009E-01
21	0.000E+00	0.000E+00	4.745E-05	0.000E+00	3.914E-06	1.829E-06	2.973E-07	3.988E-06	0.000E+00	9.410E-01
22	0.000E+00	0.000E+00	4.419E-05	0.000E+00	3.989E-06	1.723E-06	2.787E-07	3.715E-06	0.000E+00	8.964E-01
23	0.000E+00	0.000E+00	4.404E-05	0.000E+00	4.065E-06	1.722E-06	2.782E-07	3.702E-06	0.000E+00	8.852E-01
24	0.000E+00	0.000E+00	4.376E-05	0.000E+00	3.979E-06	1.696E-06	2.760E-07	3.678E-06	0.000E+00	8.887E-01
25	0.000E+00	0.000E+00	4.410E-05	0.000E+00	3.873E-06	1.695E-06	2.774E-07	3.707E-06	0.000E+00	9.623E-01
26	0.000E+00	0.000E+00	4.678E-05	0.000E+00	3.322E-06	1.752E-06	2.900E-07	3.930E-06	0.000E+00	1.120E+00
27	0.000E+00	0.000E+00	4.793E-05	0.000E+00	3.075E-06	1.770E-06	2.953E-07	4.026E-06	0.000E+00	6.577E-01
28	0.000E+00	0.000E+00	5.121E-05	0.000E+00	3.195E-06	1.889E-06	3.151E-07	4.302E-06	0.000E+00	5.401E-01

29	0.0002+00	0.000E+00	6.495E-05	0.000E+00	4.267E-06	2.389E-06	4.006E-07	5.456E-06	0.000E+00	4.623E-01
30	0.000E+00	0.000E+00	6.879E-05	0.000E+00	4.668E-06	2.527E-06	4.250E-07	5.779E-06	0.000E+00	4.549E-01
31 32	0.000E+00 0.000E+00	0.000E+00	7.196E-05	0.000E+00	5.043E-06	2.638E-06	4.453E-07	6.045E-06	0.000E+00	4.844E-01
33	0.000E+00	0.000E+00	7.216E-05	0.000E+00	5.258E-06	2.651E-06	4.475E-07	6.063E-06	0.000E+00	5.855E-01
34	0.000E+00	0.000E+00	7.988E-05	0.000E+00	6.029E-06	2.960E-06	4.966E-07	6.712E-06	0.000E+00	2.114E+00
35	0.000E+00	0.000E+00 0.000E+00	8.819E-05 9.398E-05	0.800E+00	6.794E-06	3.282E-06	5.491E-07	7.410E-06	0.000E+00	2.252E+00
36	0.000E+00	0.000E+00	9.813E-05	0.000E+00	7.278E-06	3.496E-06	5.853E-07	7.896E-06	0.000E+00	2.229E+00
37	0.000E+00	0.000E+00	9.851E-05	0.000£+00 0.000E+00	7.372E-06 7.194E-06	3.6262-06	6.098E-07 6.107E-07	8.245E-06	0.000E+00	2.126E+00
38	0.000E+00	0.000E+00	9.568E-05	0.000E+00	6.666E-06	3.593E-06 3.470E-06	5.915E-07	8.276E-06 8.038E-06	0.000E+00 0.000E+00	1.957E+00
39	0.000E+00	0.000E+00	1.167E-04	0.000E+00	8.403E-06	4.250E-06	7.228E-07	9.803E-06	0.000E+00	1.032E+00 1.977E+00
40	0.000E+00	0.000E+00	1.478E-04	0.000E+00	1.095E-05	5.3982-06	9.170E-07	1.241E-05	0.000E+00	2.461E+00
41	0.0002+00	0.000E+00	2.012E-04	0.000E+00	1.693E-05	8.374E-06	1.268E-06	1.691E-05	0.000E+00	2.178E+00
42	0.000E+00	0.000E+00	3.067E-04	0.000E+00	2.823E-05	1.182E-05	1.936E-06	2.578E-05	0.000E+00	1.405E+00
43	0.000E+00	0.000E+00	2.608E-04	0.000E+00	2.088E-05	1.002E-05	1.630E-06	2.191E-05	0.000E+00	9.625E-01
44	0.000E+00	0.000E+00	2.402E-04	0.000E+00	1.085E-05	9.005E-06	1.460E-06	2.017E-05	0.000E+00	6.130E-01
45	0.000E+00	0.000E+00	2.331E-04	0.000E+00	7.174E-06	8.431E-06	1.397E-06	1.956E-05	0.000E+00	4.053E-01
46 47	0.000E+00 0.000E+00	0.000E+00	1.470E-04	0.000E+00	5.420E-06	5.343E-06	8.860E-07	1.234E-05	0.000E+00	2.956E-01
48	0.000E+00	0.000E+00 0.000E+00	2.158E-04	0.000E+00	1.003E-05	8.121E-06	1.313E-06	1.812E-05	0.000E+00	3.160E-01
49	0.000E+00	0.000E+00	2.830E-04 3.349E-04	0.000E+00 0.000E+00	7.484E-06 8.783E-06	1.032E-05 1.226E-05	1.692E-06	2.375E-05	0.000E+00	3.435E-01
50	0.000E+00	0.000E+00	3.589E-04	0.000E+00	1.022E-05	1.327E-05	2.002E-06 2.150E-06	2.810E-05 3.012E-05	0.000E+00 0.000E+00	3.582E-01
51	0.000E+00	0.000E+00	1.883E-04	0.000E+00	8.211E-06	7.296Z-06	1.145E-06	1.581E-05	0.000E+00	3.461E-01 2.950E-01
52	0.000E+00	0.000E+00	1.250E-04	0.000E+00	5.962E-06	4.702E-06	7.614E-07	1.050E-05	0.000E+00	2.445E-01
53	0.000E+00	0.000E+00	9.077E-05	0.000E+00	4.443E-06	3.355E-06	5.528E-07	7.522E-06	0.000E+00	2.025E-01
54	0.000E+00	0.000E+00	7.295E-05	0.000E+00	5.948E-06	2.954E-06	4.580E-07	6.130E-06	0.000E+00	1.706E-01
55	0.000E+00	0.000E+00	7.876E-05	0.000E+00	5.091E-06	3.177E-06	4.880E-07	6.616E-06	0.000E+00	1.816E-01
56 57	0.000E+00 0.000E+00	0.000E+00 0.000E+00	8.555E-05	0.000E+00	5.6862-06	3.482E-06	5.312E-07	7.187E-06	0.000E+00	1.892E-01
58	0.000E+00	0.000E+00	9.047E-05 1.133E-04	0.000E+00 0.000E+00	4.594E-06 6.012E-06	3.318E-06	5.515E-07	7.597E-06	0.000E+00	1.388E-01
59	0.000E+00	0.000E+00	1.403E-04	0.000E+00	1.125E-05	4.196E-06 5.580E-06	6.923E-07 8.79ZE-07	9.515E-06 1.179E-05	0.000E+00 0.000E+00	2.140E-01
60	0.000E+00	0.000E+00	1.680E-04	0.000E+00	1.360E-05	6.525E-06	1.052E-06	1.412E-05	0.0002+00	2.380E-01 2.545E-01
61	0.000E+00	0.000E+00	2.032E-04	0.000E+00	1.588E-05	7.773E-06	1.268E-06	1.707E-05	0.000E+00	2.647E-01
62	0.0002+00	0.000E+00	2.398E-04	0.000E+00	1.870E-05	9.119E-06	1.496Z-06	2.015E-05	0.000E+00	2.785E-01
63	0.000E+00	0.000E+00	2.756E-04	0.000E+00	2.297E-05	1.056E-05	1.727E-06	2.316E-05	0.000E+00	2.988E-01
. 64	0.000E+00	0.000E+00	2.535E-04	0.000E+00	2.122E-05	9.962E-06	1.591E-06	2.130E-05	0.000E+00	2.776E-01
65	0.000E+00	0.000E+00	2.992E-04	0.000E+00	2.245E-05	1.128E-05	1.861E-06	2.514E-05	0.000E+00	2.999E-01
66 67	0.000E+00 0.000E+00	0.000E+00	3.725E-04	0.000E+00	2.401E-05	1.392E-05	2.298E-06	3.129E-05 4.273E-05	0.000E+00	3.263E-01
68	0.000E+00	0.000E+00 0.000E+00	5.089E-04 5.447E-04	0.0002	2.447E-05 2.377E-05	1.887E-05	3.098E-06	4.273E-05	0.000E+00	3.674E-01
69	0.000E+00	0.000E+00	5.448E-04	0.000E+00 0.000E+00		2.0462-05	3.306E-06	4.573E-05	0.000E+00	4.083E-01
70	0.000E+00	0.000E+00	5.318E-04	0.000E+00	2.506E-05 2.529E-05	2.022E-05 1.982E-05	3.311E-06 3.237E-06	4.574E-05 4.466E-05	0.000E+00 0.000E+00	4.505E-01
71	0.000E+00	0.000E+00	3.443E-04	0.000E+00	1.964E-05	1.288E-05	2.112E-06	2.892E-05	0.000E+00	4.778E-01 3.984E-01
72	0.000E+00	0.000E+00	2.507E-04	0.000E+00	1.680E-05	9.499E-06	1.550E-06	2.106E-05	0.000E+00	3.294E-01
73	0.000E+00	0.0002+00	1.905E-04	0.000E+00	1.072E-05	7.250E-06	1.169E-06	1.600E-05	0.000E+00	2.760E-01
74	0.000E+00	0.000E+00	1.578E-04	0.000E+00	1.269E-05	6.054E-06	9.868E-07	1.326E-05	0.000E+00	2.394E-01
75	0.000E+00	0.000E+00	1.458E-04	0.000E+00	9.166E-06	5.894E-06	9.024E-07	1.225E-05	0.000E+00	2.440E-01
76 77	0.000E+00 0.000E+00	0.000E+00	1.315E-04	0.000E+00	6.684E-06	4.899E-06	8.021E-07	1.104E-05	0.000E+00	2.555E-01
78	0.000E+00	0.000E+00 0.000E+00	1.135E-04 9.699E-05	0.000E+00 0.000E+00	5.730E-06	4.262E-06	6.929E-07	9.534E-06	0.000E+00	2.577E-01
79	0.000E+00	0.000E+00	1.114E-04	0.000E+00	6.891E-06 9.381E-06	4.009E-06 4.574E-06	6.049E-07 7.012E-07	8.148E-06 9.359E-06	0.000E+00	2.520E-01
80	0.000E+00	0.000E+00	1.242E-04	0.000E+00	6.032E-06	4.689E-06	7.568E-07	1.042E-05	0.000E+00 0.000E+00	2.866E-01 3.304E-01
81	0.000E+00	0.000E+00	1.454E-04	0.000E+00	6.301E-06	5.437E-06	8.823E-07	1.221E-05	0.000E+00	3.905E-01
82	0.000E+00	0.000E+00	1.709E-04	0.000E+00	6.420E-06	6.264E-06	1.031E-06	1.435E-05	0.000E+00	4.736E-01
83	0.000E+00	0.000E+00	1.882E-04	0.000E+00	6.819E-06	6.871E-06	1.134E-06	1.580E-05	0.000E+00	5.906E-01
84	0.000E+00	0.000E+00	2.042E-04	0.000E+00	7.231E-06	7.439E-06	1.229E-06	1.714E-05	0.000E+00	7.943E-01
85	0.000E+00	0.000E+00	2.173E-04	0.000E+00	7.557E-06	7.924E-06	1.308E-06	1.824E-05	0.000E+00	1.268E+00
86 87	0.000E+00 0.000E+00	0.000E+00	2.107E-04	0.000E+00	7.785E-06	7.714E-06	1.271E-06	1.769E-05	0.000E+00	2.898E+00
88	0.000E+00	0.000E+00 0.000E+00	1.109E-04 7.375E-05	0.000E+00 0.000E+00	5.866E-06	4.094E-06	6.773E-07	9.311E-06	0.000E+00	3.314E+00
89	0.000E+00	0.000E+00	5.363E-05	0.000E+00	4.677E-06 3.813E-06	2.753E-06 2.025E-06	4.544E-07 3.327E-07	6.195E-06	0.000E+00	2.082E+00
90	0.000E+00	0.000E+00	5.029E-05	0.000E+00	3.845E-06	1.917E-06	3.134E-07	4.506E-06 4.226E-06	0.000E+00 0.000E+00	7.771E-01 8.986E-01
91	0.000E+00	0.000E+00	2.422E-04	0.000E+00	1.055E-05	8.769E-06	1.467E-06	2.034E-05	0.000E+00	3.187E-01
92	0.000E+00	0.000E+00	2.345E-04	0.000E+00	1.042E-05	8.492E-06	1.422E-06	1.969E-05	0.000E+00	3.061E-01
93	0.000E+00	0.000E+00	2.256E-04	0.000E+00	1.039E-05	8.180E-06	1.369E-06	1.894E-05	0.000E+00	2.908E-01
94	0.000E+00	0.000E+00	2.16ZE-04	0.000E+00	1.064E-05	7.900E-06	1.316E-06	1.815E-05	0.000E+00	2.753E-01
95	0.000E+00	0.000E+00	2.071E-04	0.000E+00	1.064E-05	7. <i>5</i> 71E-06	1.263E-06	1.739E-05	0.000E+00	2.619E-01
96 97	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.988E-04 1.909E-04	0.000E+00	1.043E-05	7.249E-06	1.213E-06	1.669E-05	0.000E+00	2.499E-01
98	0.000E+00	0.000E+00	1.797E-04	0.000E+00 0.000E+00	1.082E-05 9.956E-06	7.030E-06 6.528E-06	1.169E-06	1.603E-05	0.000E+00	2.385E-01
99	0.000E+00	0.000E+00	1.700E-04	0.000E+00	1.079E-05	6.325E-06	1.099E-06 1.048E-06	1.509E-05 1.428E-05	0.000E+00 0.000E+00	2.277E-01
100	0.000E+00	0.000E+00	1.592E-04	0.000E+00	1.040E-05	5.920E-06	9.824E-07	1.338E-05	0.000E+00	2.188E-01 2.110E-01
101	0.000E+00	0.000E+00	1.501E-04	0.000E+00	1.136E-05	5.769E-06	9.3552-07	1.261E-05	0.000E+00	2.051E-01
102	0.000E+00	0.000E+00	1.424E-04	0.000E+00	1.328E-05	5.536E-06	8.996E-07	1.197E-05	0.000E+00	2.007E-01
103	0.000E+00	0.000E+00	2.767E-04	0.000E+00	1.189E-05	1.003E-05	1.675E-06	2 323F-05	0.000E+00	3.327E-01
104	0.000E+00	0.000E+00	2.656E-04	0.000E+00	1.186E-05	9.660E-06	1.611E-06	2.230E-05	0.000E+00	3.173E-01
105	0.000E+00	0.000E+00	2.526E-04	0.000E+00	1.183E-05	9.202E-06	1.534E-06	2.121E-05	0.000E+00	3.003E-01
106 107	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.396E-04	0.000E+00	1.223E-05	8.804E-06	1.461E-06	2.012E-05	0.000E+00	2.839E-01
108	0.000E+00	0.000E+00	2.280E-04 2.167E-04	0.000E+00	1.211E-05	8.3762-06	1.392E-06	1.914E-05	0.000E+00	2.703E-01
109	0.000E+00	0.000E+00	2.049E-04	0.000E+00 0.000E+00	1.205E-05 1.228E-05	7.976Z-06 7.600E-06	1.326E-06 1.259E-06	1.820E-05	0.000E+00	2.583E-01
110	0.000E+00	0.000E+00	1.917E-04	0.000E+00	1.252E-05	7.206E-06	1.184E-06	1.721E-05 1.610E-05	0.000E+00 0.000E+00	2.465E-01
111 112 113 114	G. COOE+00	0.000E+00	1.787E-04	0.000E+00	1.214E-05	6.737E-06	1.106E-06	1.501E-05	0.000E+00	2.356E-01 2.260E-01
112	0.000E+00	0.000E+00	1.669E-04	0.000E+00	1.220E-05	6.373E-06	1.038E-06	1.403E-05	0.000E+00	2.183E-01
113	0.000E+00	0.000E+00	1.560E-04	0.000E+00	1.220E-05	6.031E-06	9.742E-07	1.311E-05	0.000E+00	2.124E-01
114	0.000E+00	0.000E+00	1.474E-04	0.000E+00	1.361E-05	5.728E-06	9.306E-07	1.239E-05 2.711E-05	0.000E+00	2.080E-01
115 116	0.000E+00	0.000E+00	3.229E-04	0.000E+00	1.370E-05	1.1762-05	1.955E-06	2.711E-05	0.000E+00	3.458E-01
117	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.061E-04 2.859E-04	0.0002+00	1.374E-05	1.121E-05	1.857E-06	2.570E-05	0.000E+00	3.285E-01
118	0.000E+00	0.000E+00	2.859E-04 2.678E-04	0.000E+00 0.000E+00	1.375E-05 1.427E-05	1.049E-05	1.739E-06	2.401E-05	0.000E+00	3.103E-01
119	0.000E+00	0.000E+00	2.525E-04	0.000E+00	1.543E-05	9.903E-06 9.762E-06	1.636E-06 1.556E-06	2.249E-05 2.121E-05	0.000E+00 0.000E+00	2.936E-01 2.808E-01
120	0.000E+00	0.000E+00	2.349E-04	0.000E+00	1.441E-05	8.796E-06	1.445E-06	1.973E-05	0.000E+00	2.673E-01
121	0.000E+00	0.000E+00	2.182E-04	0.000E+00	1.391E-05	8.163E-06	1.345E-06	1.832E-05	0.000E+00	2.545E-01
122	0.000E+00	0.000E+00	2.026E-04	0.000E+00	1.451E-05	7.754E-06	1.258E-06	1.702E-05	0.000E+00	2.433E-01
121 122 123 124	0.000E+00 0.000E+00	0.000E+00	1.880E-04	0.000E+00	1.411E-05	7.232E-06	1.171E-06	1.580E-05	0.000E+00	2.336E-01
125	0.000E+00	0.000E+00 0.000E+00	1.770E-04	0.000E+00	1.611E-05	7.042E-06	1.118E-06	1.488E-05	0.000E+00	2.269E-01
		5.300ETU0	1.648E-04	0.000E+00	1.467E-05	6.386Z-06	1.038E-06	1.385E-05	0.000E+00	2.211E-01

126	0.0007+00	A AAATLAA		0.005100	1 27/5-05	£ 0297-0/	0 6108-07	1 2075-05	0.0005+00	2 1669-01
126 127	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.531E-04	0.000E+00 0.000E+00	1.376E-05 1.612E-05	5.938E-06 1.425E-05	9.649E-07 2.349E-06	1.287E-05 3.259E-05	0.000E+00 0.000E+00	2.166E-01 3.590E-01
128	0.000E+00	0.000E+00	3.882E-04 3.620E-04	0.000E+00	1.615E-05	1.333E-05	2.197E-06	3.040E-05	0.000E+00	3.402E-01
129	0.000E+00	0.000E+00	3.288E-04	0.000E+00	1.665E-05	1.2182-05	2.005E-06	2.761E-05	0.000E+00	3.212E-01
130	0.000E+00	0.000E+00	3.040E-04	0.000E+00	2.045E-05	1.142E-05	1.880E-06	2.554E-05	0.000E+00	3.046E-01
131	0.000E+00	0.000E+00	2.781E-04	0.000E+00	2.019E-05	1.048E-05	1.727E-06	2.337E-05	0.000E+00	2.899E-01
132	0.0002+00	0.000E+00	2.541E-04	0.000E+00	1.9582-05	9.898E-06	1.586E-06	2.135E-05	0.000E+00	2.769E-01
133	0.000E+00	0.000E+00	2.311E-04	0.000E+00	1.621E-05	8.805E-06	1.433E-06	1.941E-05	0.000E+00	2.628E-01
134	0.000E+00	0.000E+00	2.151E-04	0.000E+00	1.791E-05	8.262E-06	1.348E-06	1.808E-05	0.000E+00	2.520E-01
135 136	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.999E-04 1.865E-04	0.000E+00 0.000E+00	1.723E-05 1.584E-05	7.701E-06 7.174E-06	1.256E-06 1.171E-06	1.680E-05 1.568E-05	0.000E+00 0.000E+00	2.427E-01 2.358E-01
137	0.000E+00	0.000E+00	1.728E-04	0.000E+00	1.495E-05	6.665E-06	1.086E-06	1.452E-05	0.000E+00	2.307E-01
138	0.000E+00	0.000E+00	1.603E-04	0.000E+00	1.412E-05	6.199E-06	1.009E-06	1.347E-05	0.000E+00	2.262E-01
139	0.000E+00	0.000E+00	4.941E-04	0.000E+00	2.260E-05	1.865E-05	3.005E-06	4.149E-05	0.000E+00	3.738E-01
140	0.000E+00	0.000E+00	4.542E-04	0.000E+00	2.315E-05	1.689E-05	2.771E-06	3.814E-05	0.000E+00	3.531E-01
141	0.000E+00	0.000E+00	3.894E-04	0.000E+00	2.320E-05	1.454E-05	2.392E-06	3.270E-05	0.000E+00	3.3262-01
142	0.000E+00	0.000E+00	3.359E-04	0.000E+00	2.287E-05	1.257E-05	2.078E-06	2.822E-05	0.000E+00	3.138E-01
143	0.000E+00	0.000E+00	2.987E-04	0.000E+00	2.205E-05	1.125E-05	1.857E-06	2.510E-05	0.000E+00	2.9928-01
144 145	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.692E-04 2.456E-04	0.000E+00 0.000E+00	2.135E-05 2.003E-05	1.025E-05 9.404E-06	1.681E-06 1.537E-06	2.262E-05 2.064E-05	0.000E+00 0.000E+00	2.859E-01 2.728E-01
146	0.000E+00	0.000E+00	2.271E-04	0.000E+00	1.900E-05	8.708E-06	1.423E-06	1.908E-05	0.000E+00	2.615E-01
147	0.0002+00	0.000E+00	2.107E-04	0.000E+00	1.760E-05	8.091E-06	1.321E-06	1.770E-05	0.000E+00	2.531E-01
148	0.000E+00	0.000E+00	1.955E-04	0.000E+00	1.634E-05	7.505E-06	1.225E-06	1.643E-05	0.000E+00	2.468E-01
149	0.000E+00	0.000E+00	1.818E-04	0.000E+00	1.527E-05	6.979 <b>Z-</b> 06	1.140E-06	1.528E-05	0.000E+00	2.414E-01
150	0.000E+00	0.000E+00	1.6842-04	0.000E+00	1.4192-05	6.479E-06	1.056E-06	1.415E-05	0.000E+00	2.368E-01
151 152 153	0.0002+00	0.000E+00	2.593E-04	0.000E+00	2.167E-05	9.920E-06	1.625E-06	2.179E-05	0.000E+00	2.838E-01
153	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.408E-04 2.243E-04	0.000E+00 0.000E+00	1.960E-05 1.798E-05	9.212E-06 8.557E-06	1.507E-06 1.402E-06	2.024E-05 1.885E-05	0.000E+00 0.000E+00	2.734E-01 2.654E-01
154	0.000E+00	0.000E+00	2.052E-04	0.000E+00	1.7322-05	7.935E-06	1.288E-06	1.725E-05	0.000E+00	2.594E-01
155	0.000E+00	0.000E+00	1.945E-04	0.000E+00	1.560E-05	7.426Z-06	1.216E-06	1.634E-05	0.000E+00	2.533E-01
156	0.000E+00	0.000E+00	1.781E-04	0.000E+00	1.458E-05	6.845E-06	1.115E-06	1.496E-05	0.000E+00	2.487E-01
157	0.000Z+00	0.000E+00	1.348E-04	0.000E+00	1.161E-05	5.202E-06	8.471E-07	1.133E-05	0.000E+00	2.167E-01
158	0.0002+00	0.000E+00	1.383E-04	0.000E+00	1.111E-05	5.319E-06	8.651E-07	1.163E-05	0.000E+00	2.146Z-01
159	0.000E+00	0.000E+00	1.354E-04	0.000E+00	6.814E-06	4.980E-06	8.251E-07	1.137E-05	0.000E+00	2.23ZE-01
160 161	0.000E+00 0.000E+00	0.000E+00	1.318E-04	0.000E+00	6.103E-06	4.758E-06 4.521E-06	7.998E-07 7.599E-07	1.107E-05 1.051E-05	0.000E+00 0.000E+00	2.253E-01 2.142E-01
162	0.000E+00	0.000E+00 0.000E+00	1.252E-04 1.192E-04	0.000E+00 0.000E+00	5.791E-06 5.678E-06	4.304E-06	7.239E-07	1.000E-05	0.000E+00	1.976E-01
163	0.000E+00	0.000E+00	1.145E-04	0.000E+00	5.7022-06	4.141E-06	6.967E-07	9.612E-06	0.000E+00	1.784E-01
164	0.000E+00	0.000E+00	1.066E-04	0.000E+00	5.717E-06	3.863E-06	6.507E-07	8.951E-06	0.000E+00	1.634E-01
165	0.000E+00	0.000E+00	9.593E-05	0.000E+00	5.707E-06	3.495E-06	5.885E-07	8.057E-06	0.000E+00	1.536E-01
166	0.000E+00	0.000E+00	8.463E-05	0.000E+00	5.410E-06	3.097E-06	5.211E-07	7.109E-06	0.000E+00	1.484E-01
167	0.000E+00	0.000E+00	7.567E-05	0.000E+00	4.856E-06	2.769E-06	4.660E-07	6.356E-06	0.000E+00	1.475E-01
168	0.000E+00	0.000E+00	1.695E-04	0.000E+00	8.359E-06	6.23ZE-06	1.032E-06	1.423E-05	0.000E+00	2.548E-01
169	0.000E+00	0.000E+00	1.697E-04	0.000E+00	7.852E-06	6.137E-06	1.030E-06	1.425E-05	0.000E+00	2.632E-01
170 171	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.624E-04 1.524E-04	0.000E+00 0.000E+00	7.314E-06 7.140E-06	5.863E-06 5.507E-06	9.844E-07	1.363E-05 1.279E-05	0.000E+00 0.000E+00	2.574E-01 2.354E-01
172	0.000E+00	0.000E+00	1.432E-04	0.000E+00	7.104E-06	5.183E-06	9.252E-07 8.715E-07	1.203E-05	0.000E+00	2.115E-01
173	0.000E+00	0.000E+00	1.336E-04	0.000E+00	7.181E-06	4.8532-06	8.160E-07	1.122E-05	0.000E+00	1.891E-01
174	0.000E+00	0.000E+00	1.190E-04	0.000E+00	7.375E-06	4.370E-06	7.318E-07	9.995E-06	0.000E+00	1.753E-01
175	0.000E+00	0.000E+00	1.035E-04	0.000E+00	7.383E-06	3.872E-06	6.416E-07	8.693E-06	0.000E+00	1.670E-01
176	0.000E+00	0.000E+00	8.960E-05	0.000E+00	6.079E-06	3.310E-06	5.537E-07	7.527E-06	0.000E+00	1.640E-01
177	0.000E+00	0.000E+00	7.946E-05	0.000E+00	5.284E-06	2.934E-06	4.905E-07	6.675E-06	0.000E+00	1.602E-01
178 179	0.000E+00 0.000E+00	0.000E+00	2.272E-04 2.204E-04	0.000E+00	1.422E-05 9.831E-06	8.955E-06 8.039E-06	1.404E-06	1.908E-05 1.851E-05	0.000E+00 0.000E+00	3.129E-01
180	0.000E+00	0.000E+00 0.000E+00	2.065E-04	0.000E+00 0.000E+00	9.273E-06	7.467E-06	1.337E-06 1.252E-06	1.734E-05	0.000E+00	3.087E-01 2.880E-01
181	0.000E+00	0.000E+00	1.887E-04	0.000E+00	9.324E-06	6.859E-06	1.149E-06	1.585E-05	0.000E+00	2.543E-01
182	0.000E+00	0.000E+00	1.740E-04	0.000E+00	1.035E-05	6.499E-06	1.069E-06	1.461E-05	0.000E+00	2.260E-01
183	0.000E+00	0.000E+00	1.523E-04	0.000E+00	9.369E-06	5.608E-06	9.363E-07	1.279E-05	0.000E+00	2.042E-01
184	0.000E+00	0.000E+00	1.330E-04	0.000E+00	1.224E-05	5.185E-06	8.400E-07	1.118E-05	0.000E+00	1.918E-01
185	0.000E+00	0.000E+00	1.116E-04	0.000E+00	9.729E-06	4.418E-06	7.030E-07	9.383E-06	0.000E+00	1.841E-01
186 187	0.000E+00 0.000E+00	0.000E+00	9.556E-05	0.000E+00	7.149E-06 5.486E-06	3.629E-06 3.130E-06	5.946E-07 5.197E-07	8.029E <del>-06</del> 7.078E-06	0.000E+00 0.000E+00	1.801E-01 1.711E-01
188	0.000E+00	0.000E+00 0.000E+00	8.426E-05 3.194E-04	0.000E+00 0.000E+00	1.896E-05	1.202E-05	1.963E-06	2.682E-05	0.000E+00	3.803E-01
189	0.000E+00	0.000E+00	3.070E-04	0.000E+00	1.296E-05	1.122E-05	1.858E-06	2.577E-05	0.000E+00	3.526E-01
190	0.000E+00	0.000E+00	2.766E-04	0.000E+00	1.276E-05	1.012E-05	1.680E-06	2.323E-05	0.000E+00	3.140E-01
191	0.000E+00	0.000E+00	2.399E-04	0.000E+00	1.352E-05	8.920E-06	1.470E-06	2.015E-05	0.000E+00	2.751E-01
192	0.000E+00	0.000E+00	2.042E-04	0.000E+00	1.318E-05	7.6575-06	1.259E-06	1.715E-05	0.000E+00	2.448E-01
193 194	0.000E+00	0.000E+00	1.713E-04	0.000E+00 0.000E+00	1.346E-05	6.631E-06 5.631E-06	1.070E-06 9.152E-07	1.439E-05 1.220E-05	0.000E+00 0.000E+00	2.223E-01 2.102E-01
195	0.000E+00	0.000E+00 0.000E+00	1.451E-04 1.204E-04	0.000E+00	1.010E-05	4.741E-06	7.561E-07	1.012E-05	0.000E+00	2.042E-01
196	0.000E+00	0.000E+00	1.045E-04	0.000E+00	8.521E-06	4.259E-06	6.562E-07	8.779E-06	0.000E+00	1.960E-01
197	0.000E+00	0.000E+00	8.872E-05	0.000E+00	5.551E-06	3.328E-06	5.465E-07	7.452E-06	0.000E+00	1.793E-01
198	0.000E+00	0.000E+00	5.195E-04	0.000E+00	2.4562-05	1.931E-05	3.161E-06	4.362E-05	0.000E+00	4.455E-01
199	0.000E+00	0.000E+00	5.093E-04	0.000E+00	2.020E-05	1.922E-05	3.082E-06	4.275E-05	0.000E+00	3.932E-01
200	0.000E+00	0.000E+00	4.215E-04	0.000E+00	2.295E-05	1.571E-05	2.579E-06	3.540E-05	0.000E+00	3.427E-01
201	0.000E+00	0.000E+00	2.363E-04	0.000E+00	1.9925-05	9.044E-06	1.482E-06	1.9862-05	0.000E+00	2.6662-01 2.350E-01
202 203	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.623E-04 1.336E-04	0.000E+00 0.000E+00	1.374E-05 1.182E-05	6.251E-06 5.218E-06	1.018E-06 8.415E-07	1.364E-05 1.123E-05	0.000E+00 0.000E+00	2.262E-01
204	0.000E+00	0.000E+00	1.097E-04	0.000E+00	6.713E-06	4.134E-06	6.754E-07	9.217E-06	0.000E+00	2.070E-01
205	0.000E+00	0.000E+00	8.935E-05	0.000E+00	5.00ZE-06	3.318E-06	5.473E-07	7.504E-06	0.000E+00	1.831E-01
206	0.000E+00	0.000E+00	8.626E-05	0.000E+00	4.582E-06	3.200E-06	5.271E-07	7.243E-06	0.000E+00	1.852E-01
207	0.000E+00	0.000E+00	8.062E-05	0.000E+00	6.566E-06	3.1425-06	5.050E-07	£ 775F-06	0.000E+00	1.822E-01
208	0.000E+00	0.000E+00	8.076E-06	0.000E+00	6.650E-07	3.145E-07	5.062E-08	6.787E-07	0.000E+00	2.610E-02
209	0.000E+00		9.281E-06	0.000E+00	7.255E-07	3.556E-07	5.793E-08	7.798E-07	0.000E+00	2.782E-02
210 211	0.000E+00		1.092E-05	0.000E+00	8.293E-07	4.151E-07	6.802E-08 8.013E-08	9.176E-07 1.084E-06	0.000E+00 0.000E+00	3.472E-02 4.190E-02
211 212 213 214	0.000E+00 0.000E+00		1.290E-05 1.552E-05	0.000E+00 0.000E+00	9.328E-07 1.054E-06	4.886Z-07 5.81 <i>5</i> E-07	9.598E-08	1.304E-06	0.000E+00	5.246E-02
213	0.000E+00		1.942E-05	0.000E+00	1.256E-06	7.2225-07	· 1.198E-07	1.6325-06	0.000E+00	6.743E-02
214	0.000E+00		1.942E-05 2.482E-05	0.000E+00	1.497E-06		1.525E-07	2.085E-06	0.000E+00	8.204E-02
Z15	0.000E+00	0.000E+00	3.202E-05	0.000E+00	1.830E-06	1.170E-06	1.961E-07	2.689E-06	0.000E+00	9.015E-02
216 217	0.000E+00		3.818E-05	0.000E+00	2.178E-06	1.392E-06	2.338E-07	3.207E-06	0.000E+00	1.030E-01
217	0.0002+00		4.407E-05	0.000E+00	2.390E-06			3.701E-06	0.000E+00	1.041E-01
218 219 220	0.000E+00 0.000E+00		4.721E-05	0.000E+00 0.000E+00	2.498E-06	1.712E-06 1.763E-06	2.881E-07 2.974E-07	3.965E-06 4.094E-06	0.000E+00 0.000E+00	1.06 <i>5</i> E-01 1.029E-01
220	0.000E+00		4.875E-05 4.568E-05	0.000E+00	2.572E-06 2.500E-06	1.652E-06		3.836E-06	0.000E+00	9.431E-02
221	0.000E+00		4.199E-05	0.000E+00	2.246E-06	1.517E-06	2.563E-07	3.526E-06	0.000E+00	9.157E-02
222	0.000E+00		3.899E-05	0.000E+00	1.925E-06			3.274E-06	0.000E+00	8.812E-02

222										
223	0.000E+00	0.000E+00	3.876E-05	0.000E+00	1.939E-06	1.403E-06	2.360E-07	3.255E-06	0.000E+00	8.205E-02
224 225	0.000E+00	0.000E+00	3.861E-05	0.000E+00	2.119E-06	1.403E-06	2.360E-07	3.243E-06	0.000E+00	8.017E-02
243	0.000E+00	0.000E+00	3.765E-05	0.000E+00	2.332E-06	1.3762-06	2.315E-07	3.163E-06	0.000E+00	8.064E-02
226	0.000E+00	0.000E+00	3.563E-05	0.000E+00	2.310E-06	1.309E-06	2.196E-07	2.993E-06	0.000E+00	7.827E-02
227 228 229	0.000E+00	0.000E+00	7.907E-06	0.000E+00	7.162E-07	3.072E-07	4.987E-08	6.647E-07	0.000E+00	2.615E-02
228	0.000E+00	0.000E+00	9.364E-06	0.000E+00	7.883E-07	3.668E-07	5.879E-08	7.869E-07	0.000E+00	3.064E-02
229	0.000E+00	0.000E+00	1.105E-05	0.000E+00	8.707E-07	4.250E-07	6.904E-08	9.288E-07	0.000E+00	3.386E-02
230	0.000E+00	0.000E+00	1.324E-05	0.000E+00	9.912E-07	5.029E-07	8.240E-08	1.113E-06	0.000E+00	4.394E-02
231	0.000E+00	0.000E+00	1.607E-05	0.000E+00	1.129E-06	6.068E-07	9.960E-08	1.350E-06	0.000E+00	
232 233	0.000E+00	0.000E+00	2.006E-05	0.000E+00	1.304E-06	7.477E-07	1.237E-07	1.685E-06	0.000E+00	5.325E-02
233	0.000E+00	0.000E+00	2.620E-05	0.000E+00	1.594E-06	9.666E-07	1.610E-07	2.201E-06		7.161E-02
234	0.000E+00	0.000E+00	3.478E-05	0.000E+00	1.989E-06	1.2748-06	2.131E-07		0.000E+00	8.948E-02
235	0.000E+00	0.000E+00	4.387E-05	0.000E+00	2.452E-06			2.921E-06	0.000E+00	1.052E-01
236	0.000E+00	0.000E+00	5.233E-05	0.000E+00	2.823E-06	1.5992-06	2.684E-07	3.684E-06	0.000E+00	1.204E-01
237	0.000E+00	0.000E+00	5.745E-05			1.9002-06	3.196Z-07	4.395E-06	0.000E+00	1.230E-01
238	0.000E+00	0.000E+00	5.846E-05	0.000E+00	2.998E-06	2.082E-06	3.504E-07	4.825E-06	0.000E+00	1.23IE-01
239	0.000E+00	0.000E+00	5.427E-05	0.000E+00	3.073E-06	2.114E-06	3.566E-07	4.909E-06	0.000E+00	1.186E-01
240	0.000E+00	0.000E+00		0.000E+00	2.938E-06	1.961E-06	3.3142-07	4.557E-06	0.000E+00	1.084E-01
241	0.000E+00	0.000E+00	5.001E-05	0.000E+00	2.539E-06	1.807E-06	3.046E-07	4.199E-06	0.000E+00	1.103E-01
242	0.000E+00	0.000E+00	4.818E-05	0.000E+00	2.326E-06	1.742E-06	2.929E-07	4.045E-06	0.000E+00	1.009E-01
243	0.000E+00	0.000E+00	4.785E-05	0.000E+00	2.487E-06	1.735E-06	2.9182-07	4.018E-06	0.000E+00	9.553E-02
244	0.000E+00	0.000E+00	4.580E-05	0.000E+00	2.723E-06	1.669E-06	2.810E-07	3.847E-06	0.000E+00	9.242E-02
245	0.000E+00		4.264E-05	0.000E+00	2.765E-06	1.564E-06	2.628E-07	3.582E-06	0.000E+00	9.037E-02
246	0.000E+00	0.000E+00	3.809E-05	0.000E+00	2.480E-06	1.401E-06	2.348E-07	3.200E-06	0.000E+00	8.523E-02
247	0.000E+00	0.0002+00	7.290E-06	0.000E+00	6.679E-07	2.871E-07	4.605E-08	6.128E-07	0.000E+00	2.450E-02
248	0.000E+00	0.000E+00	8.968E-06	0.000E+00	8.314E-07	3.498E-07	5.666E-08	7.538E-07	0.000E+00	3.079E-02
249		0.000E+00	1.094E-05	0.000E+00	9.308E-07	4.297E-07	6.877E-08	9.198E-07	0.000E+00	3.683E-02
250	0.000E+00	0.000E+00	1.342E-05	0.000E+00	1.039E-06	5.143E-07	8.371E-08	1.128E-06	0.000E+00	4.313E-02
	0.000E+00	0.000E+00	1.657E-05	0.000E+00	1.216E-06	6.299E-07	1.030E-07	1.392E-06	0.000E+00	5.625E-02
251 257	0.000E+00	0.000E+00	2.093E-05	0.000E+00	1.410E-06	7.840E-07	1.294E-07	1.758E-06	0.000E+00	7.369E-02
252 253 254	0.000E+00	0.000E+00	2.752E-05	0.000E+00	1.691E-06	1.0192-06	1.693E-07	2.312E-06	0.000E+00	1.001E-01
251	0.000E+00	0.000E+00	3.805E-05	0.000E+00	2.164E-06	1.395E-06	2.330E-07	3.195E-06	0.000E+00	1.242E-01
434	0.000E+00	0.0002+00	5.094E-05	0.000E+00	2.770E-06	1.857E-06	3.113E-07	4.278E-06	0.000E+00	1.430E-01
255	0.000E+00	0.000E+00	6.367E-05	0.000E+00	3.384E-06	2.309E-06	3.886E-07	5.347E-06	0.000E+00	1.489E-01
256	0.000E+00	0.000E+00	7.187E-05	0.000E+00	3.699E-06	2.602E-06	4.380E-07	6.035E-06	0.000E+00	1.449E-01
257	0.000E+00	0.000E+00	7.197E-05	0.000E+00	3.770E-06	2.501E-06	4.389E-07	6.043E-06	0.000E+00	1.367E-01
258	0.000E+00	0.000E+00	6.752E-05	0.000E+00	3.531E-06	2.439E-06	4.117E-07	5.670E-06	0.000E+00	1.339E-01
259	0.000E+00	0.000E+00	6.308E-05	0.000E+00	3.040E-06	2.279E-06	3.834E-07	5.297E-06	0.000E+00	1.311E-01
260	0.000E+00	0.000E+00	6.180E-05	0.000E+00	3.018E-06	2.235E-06	3.758E-07	5.189E-06	0.000E+00	1 1797-01
261	0.000E+00	0.000E+00	5.802E-05	0.000E+00	3.244E-06	2.107E-06	3.549E-07	4.872E-06	0.000E+00	1.096E-01
262	0.000E+00	0.000E+00	5.245E-05	0.000E+00	3.364E-06	1.919E-06	3.230E-07	4.405E-06	0.000E+00	1.053E-01
263	0.000E+00	0.000E+00	4.646E-05	0.000E+00	3.008E-06	1.707E-06	2.863E-07	3.903E-06	0.000E+00	1.002E-01
264	0.000E+00	0.000E+00	3.930E-05	0.000E+00	2.466E-06	1.444E-06	2.419E-07	3.301E-06	0.000E+00	
265	0.000E+00	0.000E+00	7.312E-06	0.000E+00	7.163E-07	2.959E-07	4.648E-08	6.148E-07	0.000E+00	9.167E-02
266	0.000E+00	0.000E+00	8.517E-06	0.000E+00	7.814E-07	3.392E-07	5.384E-08	7.159E-07	0.000E+00	2.656E-02
267	0.000E+00	0.000E+00	1.044E-05	0.000E+00	9.559E-07	4.075E-07	6.589E-08	8.773E-07	0.000E+00	2.991E-02 3.741E-02
268	0.000E+00	0.000E+00	1.304E-05	0.000E+00	1.112E-06	5.133E-07	8.198E-08	1.096E-06	0.000E+00	4.573E-02
269	0.000E+00	0.000E+00	1.672E-05	0.000E+00	1.281E-06	6.396E-07	1.042E-07	1.405E-06	0.000E+00	
270	0.000E+00	0.000E+00	2.162E-05	0.000E+00	1.497E-06	8.170E-07	1.339E-07	1.816E-06	0.000E+00	5.784E-02
271	0.000E+00	0.000E+00	2.918E-05	0.000E+00	1.84ZE-06	1.086E-06	1.798E-07	2.451E-06	0.000E+00	7.618E-02 1.112E-01
272	0.0 <b>00E+0</b> 0	0.000E+00	4.133E-05	0.000E+00	2.339E-06	1.520E-06	2.531E-07	3.471E-06	0.000E+00	1.475E-01
273	0.000E+00	0.000E+00	6.029E-05	0.000E+00	3.226E-06	2.211E-06	3.683E-07	5.063E-06	0.000E+00	1.730E-01
274	0.000E+00	0.000E+00	8.098E-05	0.000E+00	5.265E-06	3.098E-06	5.003E-07	6.802E-06	0.000E+00	1.854E-01
275	0.000E+00	0.000E+00	9.395E-05	0.000E+00	5.045E-06	3.486E-06	5.744E-07	7.890E-06	0.000E+00	1.748E-01
276	0.000E+00	0.000E+00	9.369E-05	0.000E+00	4.818E-06	3.385E-06	5.709E-07	7.867E-06	0.000E+00	1.664E-01
277	0.000E+00	0.000E+00	8.871E-05	0.000E+00	4.305E-06	3.202E-06	5.393E-07	7.449E-06	0.000E+00	1.702E-01
278	0.000E+00	0.000E+00	8.350E-05	0.000E+00	3.957E-06	3.016E-06	5.072E-07	7.011E-06	0.000E+00	1.546E-01
279	0.000E+00	0.000E+00	7.859E-05	C.000E+00	4.102E-06	2.847E-06	4.793E-07	6.600E-06	0.000E+00	1.359E-01
280	0.000E+00	0.000E+00	6.803E-05	0.000E+00	4.209E-06	2.481E-06	4.182E-07	5.714E-06	0.000E+00	1.240E-01
281	0.000E+00	0.000E+00	5.802E-05	0.000E+00	3.733E-06	2.127E-06	3.574E-07	4.873E-06	0.000E+00	1.202E-01
282	0.000E+00	0.000E+00	4.835E-05	0.000E+00	2.987E-06	1.774E-06	2.973E-07	4.061E-06	0.000E+00	1.107E-01
283	0.000E+00	0.000E+00	3.858E-05	0.000E+00	2.329E-06	1.415E-06	2.369E-07	3.240E-06	0.000E+00	9.651E-02
284	0.000E+00	0.000E+00	7.467E-06	0.000E+00	7.409E-07	2.964E-07	4.746E-08	6.278E-07	0.000E+00	
285	0.000E+00	0.000E+00	8.705E-06	0.000E+00	8.691E-07	3.510E-07	5.540E-08	7.319E-07	0.000E+00	2.349E-02
286	0.000E+00	0.000E+00	1.035E-05	0.000E+00	9.432E-07	4.147E-07	6.544E-08	8.703E-07		3.090E-02
287	0.000E+00	0.000E+00	1.284E-05	0.000E+00	1.106E-06	4.995E-07	8.070E-08	1.079E-06	0.000E+00	3.724E-02
288	0.000E+00	0.000E+00	1.630E-05	0.000E+00	1.331E-06	6.383E-07	1 0018-00		0.000E+00	4.743E-02
289	0.000E+00	0.000E+00	2.174E-05	0.000E+00	1.604E-06	8.260E-07	1.021E-07 1.352E-07	1.369E-06	0.000E+00	5.970E-02
290	0.000E+00	0.000E+00	3.031E-05	0.000E+00	1.988E-06	1.136E-06	1.871E-07	1.827E-06 2.546E-06	0.000E+00	8.209E-02
291	0.000E+00	0.000E+00	4.532E-05	0.000E+00	2.356E-06	1.665E-06	2.775E-07		0.000E+00	1.187E-01
292	0.000E+00	0.000E+00	7.714E-05	0.000E+00	7.047E-06	2.999E-06	4.868E-07	3.806E-06	0.000E+00	1.7946-01
293	0.000E+00	0.000E+00	1.068E-04	0.000E+00	5.283E-06	3.908E-06	6.505E-07	6.484E-06	0.000E+00	2.159E-01
294	0.000E+00	0.000E+00	6.160E-05	0.000E+00	3.745E-06	2.254E-06		8.970E-06	0.000E+00	2.364E-01
295	0.000E+00	0.000E+00	4.746E-05	0.000E+00	2.788E-06	1.736E-06	3.784E-07 2.911E-07	5.174E-06	0.000E+00	1.358E-01
296	0.000E+00	0.000E+00	3.548E-05	0.000E+00	2.086E-06	1.297E-06	2.176E-07	3.986E-06	0.000E+00	1.154E-01
297	0.000E+00	0.000E+00 0.000E+00	6.757E-06	0.000E+00	7.019E-07			2.980E-06	0.000E+00	9.029E-02
298	0.000E+00	0.000E+00	8.177E-06	0.000E+00	8.551E-07	2.685E-07 3.246E-07	4.310E-08 5.218E-08	5.68ZE-07 6.876E-07	0.000E+00	2.096E-02 2.620E-02
299	0.000E+00	0.000E+00	9.976E-06	0.000E+00	1.050E-06	4 AARE-07	6.374E-08	0.0/0LTU/	0.000E+00	4.52UE-02
300	0.000E+00	0.000E+00	1.220E-05	0.000E+00	1.159E-06	4.300E-U/	7 7267-40	8.388E-07	0.000E+00	3.583E-02
301	0.000E+00	0.000E+00	1.578F-05	0.000E+00	1.336E-06	4.008E-07 4.882E-07 6.122E-07	7.735E-08 9.904E-08	1.026E-06	0.000E+00	4.698E-02
302	0.000E+00	0.000E+00	1.578E-05 2.150E-05	0.000E+00	1.622E-06	8.275E-07	1.339E-07	1.326E-06	0.000E+00	6.375E-02
303	0.000E+00	0.000E+00	3.108E-05	0.000E+00	2.082E-06			1.806E-06	0.000E+00	8.530E-02
304	0.000E+00	0.000E+00	4.887E-05	0.000E+00	2.841E-06	1.16 <i>5</i> E-06 1.303E-06	1.921E-07	2.611E-06	0.000E+00	1.295E-01 2.189E-01
305	0.000E+00	0.000E+00	8.892E-05	0.000E+00	4.540E-06	3.334E-06	2.997E-07	4.105E-06 7.467E-06	0.000E+00	2.189E-01
306	0.000E+00	0.000E+00	6.200E-05	0.000E+00	3.404E-06	2.262E-06	5.428E-07	7.40/L-U6	0.000E+00	2.860E-01
307	0.000E+00	0.000E+00	4.431E-05	0.000E+00	2.435E-06	1.616E-06	3.790E-07	5.207E-06	0.000E+00	1.416E-01
308	0.000E+00	0.000E+00	3.282E-05	0.000E+00			2.709E-07	3.721E-06	0.000E+00	1.075E-01
309	0.000E+00	0.000E+00	5.505E-06		1.794E-06	1.195E-06	2.006E-07	2.756E-06	0.000E+00	8.307E-02 2.298E-02
310	0.000E+00	0.000E+00	6.850E-06	0.000E+00	6.975E-07	2.348E-07	3.5862-08	4.631E-07 5.761E-07	0.000E+00	2.298E-02
311	0.000E+00	0.000E+00		0.000E+00	7.785E-07	2.813E-07	4.409E-08	5.761E-07	0.000E+00	2.628 <b>E-02</b>
312	0.000E+00	0.000E+00	8.664E-06	0.000E+00	9.197E-07 1.115E-06	3.486E-07 4.395E-07	5.540E-08	7.285E-07	0.000E+00	3.233E-02
313	0.000E+00	0.000E+00	1.110E-05 1.438E-05	0.000E+00	1.1135-06	9.395E-07	7.059E-08	9.330E-07	0.000E+00	4.381E-02
313 314	0.000E+00	0.000E+00	1.4305-05	0.000E+00	1.361E-06	5.583E-07	9.108E-08	1.209E-06	0.000E+00	6.128E-02
315	0.000E+00	0.000E+00	1.988E-05	0.000E+00	1.671E-06	7.675E-07	1.247E-07	1.671E-06	0.000E+00	9.220E-02
316	0.000E+00	0.000E+00	2.937E-05	0.000E+00	2.187E-06	1.114E-06	1.827E-07	2.468E-06	0.000E+00	1.426E-01
317	0.000E+00	0.000E+00	4.885E-05	0.00E+00	3.043E-06	1.811E-06	3.007E-07	4.103E-06	0.000E+00	2.752E-01
318	0.000E+00	0.000E+00	1.061E-04 5.672E-05	0.000E+00	4.945E-06	3.888E-06	6.447E-07	8.909E-06	0.000E+00	4.466E-01
319	0.000E+00	0.000E+00	3.871E-05	0.000E+00	3.053E-06	2.078E-06	3.466E-07	4.763E-06	0.000E+00	1.356E-01
			0.0/15-03	0.000E+00	2.137E-06	1.413E-06	2.367E-07	3.251E-06	0.000E+00	1.031E-01

320	0.000E+00	0.000E+00	2.893E-05	0.000E+00	1.608E-06	1.052E-06	1.769E-07	2.430E-06	0.000E+00	8.254E-02
321	0.000E+00	0.000E+00	4.737E-06	0.000E+00	6.588E-07	2.037E-07	3.116E-08	3.987E-07	0.000E+00	2.218E-02
322	0.000E+00	0.000E+00	5.681E-06		8.224E-07	2.517E-07 2.983E-07	3.759E-08 4.478E-08	4.782E-07 5.764E-07	0.000E+00 0.000E+00	2.735E-02 3.250E-02
323 324	0.000E+00 0.000E+00	0.000E+00 0.000E+00	6.851E-06 8.690E-06		8.857E-07 9.715E-07	3.588E-07	5.588E-08	7.308E-07	0.000E+00	3.948E-02
325	0.000E+00	0.000E+00	1.178E-05	0.000E+00	1.193E-06	4.699E-07	7.502E-08	9.906E-07	0.000E+00	5.477E-02
326	0.000E+00	0.000E+00	1.663E-05	0.000E+00	1.602E-06	6.529E-07	1.054E-07	1.398E-06	0.000E+00	8.874E-02
327	0.000E+00	0.0002+00	2.493E-05	0.000E+00	2.075E-06 3.141E-06	9.544E-07 1.634E-06	1.562E-07 2.686E-07	2.095E-06 3.634E-06	0.000E+00 0.000E+00	1.550E-01 3.502E-01
328 329	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.325E-05 1.065E-04	0.000E+00 0.000E+00	5.442E-06	3.916E-06	6.496E-07	8.944E-06	0.000E+00	1.024E+00
330	0.000E+00	0.000E+00	4.868E-05	0.000E+00	2.529E-06	1.766E-06	2.968E-07	4.087E-06	0.0002+00	1.270E-01
331	0.000E+00	0.000E+00	3.543E-05	0.000E+00	1.926E-06	1.284E-06	2.164E-07 1.712E-07	2.975E-06 2.351E-06	0.000E+00 0.000E+00	9.301E-02 6.892E-02
332 333	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.800E-05 4.409E-06	0.000E+00 0.000E+00	1.561E-06 4.488E-07	1.014E-06 1.921E-07	2.824E-08	3.707E-07	0.000E+00	1.470E-02
334	0.000E+00	0.000E+00	5.108E-06	0.000E+00	5.262E-07	2.035E-07	3.2562-08	4.295E-07	0.000E+00	1.973E-02
335	0.000E+00	0.000E+00	6.065E-06	0.000E+00	6.478E-07	2.448E-07	3.880E-08	5.100E-07	0.000E+00	2.751E-02
336 337	0.000E+00	0.000E+00 0.000E+00	7.458E-06 9.539E-06	0.000E+00 0.000E+00	8.318E-07 1.123E-06	3.049E-07 3.993E-07	4.792E-08 6.166E-08	6.272E-07 8.023E-07	0.000E+00 0.000E+00	3.814E-02 5.241E-02
338	0.000E+00 0.000E+00	0.000E+00	1.278E-05	0.000E+00	1.420E-06	5.256E-07	8.210E-08	1.074E-06	0.000E+00	7.478E-02
339	0.000E+00	0.000E+00	1.972E-05	0.000E+00	1.977E-06	7.823E-07	1.254E-07	1.658E-06	0.000E+00	1.309E-01
340	0.000E+00	0.0002+00	3.537E-05	0.000E+00	3.011E-06	1.367E-06 4.930E-06	2.221E-07 8.013E-07	2.973E-06 1.107E-05	0.000E+00 0.000E+00	3.583E-01 2.552E-01
341 342	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.319E-04 6.413E-05	0.000E+00 0.000E+00	5.964E-06 3.276E-06	2.328E-06	3.907E-07	5.385E-06	0.000E+00	1.558E-01
343	0.000E+00	0.000E+00	4.327E-05	0.000E+00	2.337E-06	1.566E-06	2.642E-07	3.634E-06	0.000E+00	1.045E-01
344	0.000E+00	0.000E+00	3.230E-05	0.000E+00	1.793E-06	1.1692-06	1.975E-07	2.713E-06	0.000E+00	7.842E-02 6.510E-02
345 346	0.000 <del>2+</del> 00 0.000 <del>2+</del> 00	0.000E+00 0.000E+00	2.515E-05 3.976E-06	0.000E+00 0.000E+00	1.423E-06 5.904E-07	9.111E-07 1.740E-07	1.539E-07 2.636 <del>E-0</del> 8	2.112E-06 3.347E-07	0.000E+00 0.000E+00	1.281E-02
347	0.000E+00	0.000E+00	4.474E-06	0.000E+00	5.518E-07	2.003E-07	2.917E-08	3.764E-07	0.000E+00	1.499E-02
348	0.000E+00	0.000E+00	5.242E-06	0.000E+00	5.826E-07	2.181E-07	3.371E-08	4.409E-07	0.000E+00	1.813E-02
349	0.000E+00	0.000E+00	6.326E-06	0.000E+00	6.296E-07 7.359E-07	2.574E-07 3.182E-07	4.028E-08 5.041E-08	5.319E-07 6.700E-07	0.000E+00 0.000E+00	2.341E-02 3.398E-02
350 351	0.000E+00 0.000E+00	0.000E+00 0.000E+00	7.971E-06 1.063E-05	0.000E+00 0.000E+00	9.489E-07	4.175E-07	6.704E-08	8.938E-07	0.000E+00	5.623E-02
352	0.000E+00	0.000E+00	1.581E-05	0.000E+00	1.427E-06	6.144E-07	9.966E-08	1.328E-06	0.000E+00	9.998E-02
353	0.000E+00	0.000E+00	2.639E-05	0.000E+00	2.532E-06	1.029E-06	1.671E-07	2.219E-06	0.000E+00 0.000E+00	2.396E-01 2.033E-01
354 355	0.000E+00 0.000E+00	0.000E+00 0.000E+00	9.191E-05 5.123E-05	0.000E+00 0.000E+00	3.896Z-06 2.563E-06	3.328E-06 1.854E-06	5.562E-07 3.118E-07	7.716E-06 4.301E-06	0.000E+00	1.366E-01
356	0.000E+00	0.000E+00	3.515E-05	0.000E+00	1.893E-06	1.272E-06	2.146E-07	2.952E-06	0.000E+00	1.057E-01
357	0.000E+00	0.000E+00	2.666E-05	0.000E+00	1.484E-06	9.651E-07	1.630E-07	2.239E-06	0.000E+00	8.453E-02
358	0.000E+00	0.000E+00	2.158E-05	0.000E+00	1.209E-06	7.814E-07 1.466E-07	1.320E-07 2.321E-08	1.812E-06 2.954E-07	0.000E+00 0.000E+00	6.830E-02 1.316E-02
359 360	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.509E-06 4.072E-06	0.000E+00 0.000E+00	5.246E-07 5.867E-07	1.810E-07	2.694E-08	3.428E-07	0.000E+00	1.556E-02
361	0.000E+00	0.000E+00	4.665E-06	0.000E+00	5.061E-07	1.958E-07	2.996E-08	3.923E-07	0.000E+00	1.917E-02
362	0.000E+00	0.000E+00	5.642E-06	0.000E+00	5.399E-07	2.326E-07	3.585E-08	4.743E-07	0.000E+00	2.432E-02
363	0.000E+00	0.000E+00	7.042E-06	0.0002+00	6.108E-07 7.121E-07	2.844E-07 3.582E-07	4.438E-08 5.722E-08	5.918 <b>E-</b> 07 7.696 <b>E-</b> 07	0.000E+00 0.000E+00	3.224E-02 4.477E-02
364 365	0.000E+00 0.000E+00	0.000E+00 0.000E+00	9.159E-06 1.238E-05	0.000E+00 0.000E+00	9.271E-07	4.711E-07	7.704E-08	1.040E-06	0.000E+00	6.848E-02
366	0.000E+00	0.000E+00	1.945E-05	0.000E+00	1.402E-06	7.278E-07	1.207E-07	1.634E-06	0.000E+00	1.434E-01
367	0.000E+00	0.000E+00	4.354E-05	0.000E+00	2.912E-06	1.615E-06	2.689E-07	3.658E-06	0.000E+00	5.764E-01
368	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.480E-04 1.152E-04	0.000E+00 0.000E+00	1.024E-05 5.419E-06	5.436E-06 4.171E-06	9.152E-07 6.994E-07	1.243E-05 9.669E-06	0.000E+00 0.000E+00	1.089E+00 3.203E-01
369 370	0.000E+00	0.000E+00	6.755E-05	0.000E+00	3.201E-06	2.443E-06	4.103E-07	5.671E-06	0.000E+00	1.818E-01
371	0.000E+00	0.000E+00	4.281E-05	0.000E+00	2.146E-06	1.549E-06	2.606E-07	3.595E-06	0.000E+00	1.207E-01
372	0.000E+00	0.000E+00	3.000E-05	0.000E+00	1.586E-06 1.238E-06	1.086E-06 8.208E-07	1.830E-07 1.384E-07	2.519E-06 1.903E-06	0.000E+00 0.000E+00	8.815E-02 6.925E-02
373 374	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.266E-05 1.830E-05	0.000E+00 0.000E+00	1.028E-06	6.631E-07	1.120E-07	1.537E-06	0.000E+00	5.717E-02
375	0.000E+00	0.000E+00	3.370E-06	0.000E+00	4.720E-07	1.378E-07	2.211E-08	2.836E-07	0.000E+00	1.093E-02
376	0.000E+00	0.000E+00	3.920E-06	0.000E+00	5.360E-07	1.610E-07	2.5662-08	3.298E-07 3.892E-07	0.000E+00 0.000E+00	1.306E-02 1.628E-02
377 378	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.626E-06 5.406E-06	0.000E+00 0.000E+00	5.924E-07 4.745E-07	2.036E-07 2.194E-07	3.023E-08 3.411E-08	4.544E-07	0.000E+00	2.097E-02
379	0.000E+00	0.000E+00	6.800E-06	0.000E+00	5.468E-07	2.656E-07	4.257E-08	5.714E-07	0.000E+00	2.656E-02
380	0.000E+00	0.000E+00	8.670E-06	0.000E+00	7.013E-07	3.306E-07	5.422E-08	7.286E-07	0.000E+00	3.412E-02
381	0.000E+00	0.000E+00	1.163E-05	0.000E+00 0.000E+00	9.318E-07 1.211E-06	4.480E-07 6.351E-07	7.274E-08 1.046E-07	9.775E-07 1.415E-06	0.000E+00 0.000E+00	5.026E-02 1.038E-01
382 383	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.685E-05 3.283E-05	0.000E+00	2.169E-06	1.215E-06	2.026E-07	2.758E-06	0.000E+00	2.467E-01
384	0.000E+00	0.000E+00	6.580E-05	0.000E+00	4.981E-06	2.430E-06	4.091E-07	5.529E-06	0.000E+00	6.396E-01
385	0.000E+00	0.000E+00	8.306E-05	0.000E+00	6.485E-06	3.075E-06	5.174E-07	6.979E-06	0.000E+00 0.000E+00	1.316E+00 1.359E+00
386	0.000E+00	0.000E+00	9.162E-05	0.000E+00 0.000E+00	6.766E-06 5.666E-06	3.364E-06 3.147E-06	5.686E-07 5.353E-07	7.697E-06 7.300E-06	0.000E+00	5.410E-01
387 388	0.000E+00	0.000E+00 0.000E+00	8.690E-05 7.217E-05	0.000E+00	4,049E-06	2.613E-06	4.414E-07	6.061E-06	0.000E+00	2.168E-01
389	0.000E+00	0.000E+00	5.336E-05	0.000E+00	2.830E-06	1.931E-06	3.256E-07	4.481E-06	0.000E+00	1.307E-01
390	0.000E+00	0.000E+00	3.776E-05	0.000E+00	2.006E-06	1.367E-06	2.304E-07 1.709E-07	3.171E-06 2.352E-06	0.000E+00 0.000E+00	9.252E-02 6.989E-02
391 392	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.801E-05 2.141E-05	0.000E+00 0.000E+00	1.480E-06 1.149E-06	1.014E-06 7.755E-07	1.307E-07	1.798E-06	0.000E+00	5.664E-02
393	0.000E+00	0.000E+00	1.724E-05	0.000E+00	9.574E-07	6.249E-07	1.054E-07	1.448E-06	0.000E+00	4.785E-02
394	0.000E+00	0.000E+00	3.384E-06	0.000E+00	4.291E-07	1.380E-07	2.199E-08	2.847E-07	0.000E+00	1.136E-02 1.319E-02
395	0.000E+00	0.000E+00	4.077E-06	0.000E+00	4.958E-07	1.646E-07 2.064E-07	2.637E-08 3.216E-08	3.430E-07 4.156E-07	0.000E+00 0.000E+00	1.481E-02
396 397	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.939E-06 5.724E-06	0.000E+00 0.000E+00	6.314E-07 6.176E-07	2.371E-07	3.671E-08	4.813E-07	0.000E+00	1.729E-02
398	0.000E+00	0.000E+00	6.558E-06	0.000E+00	6.372E-07	2.681E-07	4.169E-08	5.513E-07	0.000E+00	2.133E-02
399	0.000E+00		7.749E~06	0.000E+00	6.841E-07	3.088E-07	4.886E-08	6.513E-07	0.000E+00 0.000E+00	2.938E-02
400 401	0.000E+00 0.000E+00	0.000E+00	9.938E-06 1.479E-05		7.495E-07 9.975E-07		6.196E-08 9.147E-08	8.351E-07 1.243E-06	0.000E+00	5.171E-02 8.871E-02
402	0.000E+00		2.638E-05		1.793E-06	9.825E-07	1.631E-07	2.216E-06	0.000E+00	1.559E-01
403	0.000E+00	0.000E+00	4.277E-05	0.000E+00	3.228E-06	1.593E-06	2.660E-07	3.594 <b>Z-0</b> 6	0.000E+00	2.727E-01
404	0.000E+00		5.567E-05 6.176E-05	0.000E+00	4.218E-06	2.067E-06	3.462E-07 3.846E-07	4.677E-06 5.189E-06	0.000E+00 0.000E+00	4.267E-01 4.589E-01
405 406	0.000E+00 0.000E+00		6.176E-05 6.017E-05	0.000E+00 0.000E+00	4.789E-06 3.988E-06	2.292E-06 2.202E-06	3.712E-07	5.055E-06	0.000E+00	3.247E-01
406 407	0.000E+00				3.183E-06	1.906E-06	3.219E-07	4.403E-06	0.000E+00	1.89 <b>0E-</b> 01
408	0.000E+00	0.000E+00	4.207E-05	0.000E+00	2.353E-06	1.525E-06	2.573E-07	3.533E-06	0.000E+00	1.185E-01
409	0.000E+00	0.000E+00			1.857E-06	1.192E-06				8.180E-02 6.429E-02
410 411	0.000E+00 0.000E+00			0.000E+00 0.000E+00	1.467E-06 1.144E-06	9.481E-07 7.578E-07			0.000E+00	5.346E-02
412	0.000E+00				9.193E-07	7 6.040E-07	1.018E-07	1.399E-06	0.000E+00	4.446E-02
413	0.000E+00	0.000E+00	5.705E-06	0.000E+00	6.085E-07	7 2.423E-07	3.661E-08	4.798E-07	0.000E+00	2.175E-02
414 415	0.000E+00				4.376E-07 4.382E-07					2.103E-02 2.112E-02
416	0.000E+00			0.000E+00	5.646E-07	7 2.724E-07	7 4.259E-08			3.199E-02
***	2.2002.00									_ <del>-</del>

417	0.000E+00	0.000E+00	6.213E-06	0.000E+00	4.996E-07	2.529E-07	3.899E-08	5.221E-07	0.000E+00	2.958E-02
418	0.000E+00	0.000E+00	6.444E-06	0.000E+00	5.266E-07	2.509E-07	4.037E-08	5.415E-07	0.000E+00	2.353E-02
419	0.000E+00	0.000E+00	8.847E-06	0.000E+00	6.257E-07	3.446E-07	5.496E-08	7.433E-07	0.000E+00	4.471E-02
420	0.000E+00	0.000E+00	9.077E-06	0.000E+00	6.999E-07	3.489E-07	5.662E-08	7.627E-07	0.000E+00	3.545E-02
421	0.000E+00	0.000E+00	8.542E-06	0.000E+00	7.643E-07	3.384E-07	1.389E-08	7.180E-07	0.0002+00	3.320E-02
422	0.000E+00	0.000E+00	1.367E-05	0.000E+00	9.897E-07	5.166E-07	8.490E-08	1.149E-06	0.000E+00	6.916E-02
423	0.000E+00	0.000E+00	1.256E-05	0.000E+00	9.551E-07	4.905E-07	7.835E-08	1.055E-06	0.000E+00	6.023E-02
424	0.000E+00	0.000E+00	1.179E-05	0.000E+00	9.414E-07	4.583E-07	7.3742-08	9.906E-07	0.000E+00	5.239E-02
425	0.000E+00	0.000E+00	2.209E-05	0.000E+00	1.581E-06	8.302E-07	1.370E-07	1.856E-06	0.000E+00	1.129E-01
426	0.000E+00	0.000E+00	1.927E-05	0.000E+00	1.440E-06	7.267E-07	1.1982-07	1.619E-06	0.000E+00	8.970E-02
427	0.000E+00	0.000E+00	1.730E-05	0.000E+00	1.325E-06	6.565E-07	1.0782-07	1.454E-06	0.000E+00	7.680E-02
428	0.000E+00	0.000E+00	3.278E-05	0.000E+00	2.454E-06	1.228E-06	2.038E-07	2.754E-06	0.000E+00	1.731E-01
429	0.000E+00	0.000E+00	2.687E-05	0.000E+00	2.007E-06	1.013E-06	1.671E-07	2.258E-06	0.000E+00	1.261E-01
430	0.000E+00	0.000E+00	2.265E-05	0.000E+00	1.711E-06	8.569E-07	1.410E-07	1.903E-06	0.000E+00	9.574E-02
431	0.000E+00	0.000E+00	4.094E-05	0.000E+00	3.062E-06	1.522E-06	2.544E-07	3.440E-06	0.000E+00	2.456E-01
432	0.000E+00	0.000E+00	3.162E-05	0.000E+00	2.391E-06	1.181E-06	1.967E-07	2.657E-06	0.000E+00	1.632E-01
433	0.000E+00	0.000E+00	2.562E-05	0.000E+00	1.944E-06	9.591E-07	1.594E-07	2.153E-06	0.000E+00	1.189E-01
434	0.000E+00	0.000E+00	4.482E-05	0.000E+00	3.395E-06	1.654E-06	2.787E-07	3.766E-06	0.000E+00	2.563E-01
435	0.000E+00	0.000E+00	3.455E-05	0.000E+00	2.500E-06	1.274E-06	2.142E-07	2.903E-06	0.000E+00	1.733E-01
436	0.000E+00	0.000E+00	2.762E-05	0.000E+00	1.945E-06	1.021E-06	1.710E-07	2.320E-06	0.000E+00	1.281E-01
437	0.000E+00	0.000E+00	4.502E-05	0.000E+00	3.215E-06	1.678E-06	2.791E-07	3.782E-06	0.000E+00	2.096E-01
438	0.000E+00	0.000E+60	3.492E-05	0.000E+00	2.522E-06	1.296E-06	2.166E-07	2.934E-06	0.000E+00	1.463E-01
439	0.000E+00	0.000E+00	2.800E-05	0.000E+00	1.953E-06	1.035E-06	1.733E-07	2.352E-06	0.000E+00	1.114E-01
440	0.000E+00	0.000E+00	4.054E-05	0.000E+00	2.658E-06	1.492E-06	2.501E-07	3.406E-06	0.000E+00	1.510E-01
441	0.00 <del>02+</del> 00	0.000E+00	3.283E-05	0.000E+00	2.362E-06	1.230E-06	2.037E-07	2.758E-06	0.000E+00	1.196E-01
442	0.00 <b>0E+</b> 00	0.000E+00	2.715E-05	0.000E+00	1.973E-06	1.011E-06	1.685E-07	2.281E-06	0.000E+00	9.637E-02
443	0.000E+00	0.000E+00	3.426E-05	0.000E+00	2.334E-06	1.303E-06	2.121E-07	2.878E-06	0.000E+00	1.119E-01
444	0.000E+00	0.000E+G0	2.886E-05	0.000E+00	2.245E-06	1.120E-06	1.802E-07	2.425E-06	0.000E+00	9.494E-02
445	0.000E+00	0.000E+00	2.438E-05	0.000E+00	1.687E-06	9.061E-07	1.508E-07	2.048E-06	0.000E+00	7.715E-02
446	0.000E+00	0.000E+00	2.833E-05	0.000E+00	1.699E-06	1.040E-06	1.739E-07	2.379E-06	0.000E+00	8.127E-02
447	0.000E+00	0.000E+00	2.421E-05	0.000E+00	1.422E-06	8.841E-07	1.485E-07	2.033E-06	0.000E+00	7.713E-02
448	0.000E+00	0.000E+00	2.105E-05	0.0G0E+00	1.314E-06	7.746E-07	1.295E-07	1.7682-06	0.000E+00	6.774E-02
449	0.000E+00	0.000E+00	2.334E-05	0.000E+00	1.355E-06	8.461E-07	1.430E-07	1.960E-06	0.000E+00	6.107E-02
450	0.000E+00	0.000E+00	2.049E-05	0.000E+00	1.209E-06	7.445E-07	1.256E-07	1.721E-06	0.000E+00	6.048E-02
451	0.000E+00	0.000E+00	1.8192-05	0.000E+00	1.094E-06	6.655 <b>E-</b> 07	1.1172-07	1.528E-06	0.000E+00	5.761E-02

0.000E+00 0.000E

# \*\*\* FREDICTED ANNUAL CONCENTRATIONS (ug/m3) FROM ALL SOURCES \*\*\*

RECEPTOR	Fъ	Man	Hg	Ni	NAPTH	PAH	PROFL	Se	TOL	XYLEN
1	5.860E-06	3.173E-05	0.000E+00	9.333E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2	8.620E-06	4.729E-05	0.000E+00	1.389E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3	8.552E-06	4.695E-05	0.000E+00	1.378E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2	1.121E-05	6.115E-05	0.000E+00	1.797E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5	1.131E-05	6.171E-05	0.000E+00	1.813E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
7	1.030E-05	5.608E-05	0.000E+00	1.648E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
á	9.069E-06 9.243E-06	4.949E-05 4.998E-05	0.000E+00	1.454E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
9	9.661E-06	5.201E-05	0.000E+00 0.000E+00	1.470E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	1.206E-05	6.569E-05	0.000E+00	1.531E-06 1.930E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
10 11	4.934E-06	2.681E-05	0.000E+00	7.882E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
17	2.161E-05	1.167E-04	0.000E+00	3.432E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
12 13	9.792E-06	5.124E-05	0.000E+00	1.513E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
14	9.874E-06	5.167E-05	0.000E+00	1.526E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
15	9.628E-06	5.035E-05	0.000E+00	1.487E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
16	1.092E-05	5.717E-05	0.000E+00	1.638E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
17	5.483E-06	2.971E-05	0.000E+00	8.737E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
18	8.384E-06	4.500E-05	0.000E+00	1.325E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
19	8.495E-06	4.493E-05	0.000E+00	1.325E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
20	1.186E-05	6.297E-05	0.000E+00	1.856E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
21	8.934E-06	4.538E-05	0.000E+00	1.371E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
21 22 23	8.475E-06	4.34 <i>5</i> E-05	0.000E+00	1.287E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
23	8.486 <b>Z-</b> 06	4.336E-05	0.000E+00	1.285E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
24	8.404E-06	4.304E-05	0.000E+00	1.275E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
25	8.409E-06	4.328E-05	0.000E+00	1.281E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
25 27	8.565E-06	4.532E-05	0.000E+00	1.337E-06	.0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
27	8.628E-06	4.618E-05	0.000E+00	1.360E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.900E+00
28 29	9.178E-06	4.928E-05	0.000E+00	1.451E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
30	1.174E-05	6.265E-05	0.000E+00	1.846E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
31	1.250E-05 1.314E-05	6.647E-05	0.000E+00	1.959E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
32	1.327E-05	6.965E-05 7.000E-05	0.000E+00	2.054E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
33	1.479E-05	7.765E-05	0.000E+00	2.066E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
34	1.639E-05	8.583E-05	0.000E+00 0.000E+00	2.292E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
35	1.748E-05	9.149E-05	0.000E+00	2.535E-06 2.702E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
36	1.815E-05	9.537E-05	0.000E+00	2.815E-06	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
37	1.813E-05	9.558E-05	0.000E+00	2.820E-06	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
38	1.746E-05	9.260E-05	0.000E+00	2.730E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
39	2-142E-05	1.131E-04	0.000E+00	3.337E-06	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
40	2.726E-05	1.435E-04	0.000E+00	4.235E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
41	3.803E-05	1.969E-04	0.000E+00	5.822E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
42	5.907E-05	3.020E-04	0.000E+00	8.945E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
			4445.00		4.0005.00	4.VUUETUU	0.400E700	U.UUUETUU	0.000E+00	0.000E+00

43	4.881E-05	7 6445-04	0.000	7 6175-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
44	4.119E-05	2.544E-04 2.281E-04	0.000E+00 0.000E+00		0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00
45	3.846E-05	2.188E-04	0.000E+00		0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00
46	2.466E-05	1.387E-04	0.000E+00		0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00
47	3.713E-05	2.051E-04	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
48	4.614E-05	2.648E-04	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00
49	5.456Z-05	3.133E-04	0.000E+00	9.148E-06	0 000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
50	5.884E-05	3.363E-04	0.000E+00	9.826E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
51	3.215E-05	1.786E-04	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
52	2.158E-05	1.190E-04	0.000E+00	3.491E-06	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00
53 54	1.572E-05 1.370E-05	8.645E-05 7.125E-05	0.000E+00 0.000E+00	2.537E-06 2.106E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00
55	1.419E-05	7.593E-05	0.000E+00	2.236E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
56	1.549E-05	8.260E-05	0.000E+00	2.434E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
57	1.574E-05	8.629E-05	0.000E+00	2.534E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
58	1.983E-05	1.083E-04	0.000E+00	3.181E-06	0.000E+00	0.000E+00	0.000E+00	0.000 <b>E+</b> 00	0.000E+00	0.000E+00
59	2.627E-05	1.369E-04	0.000E+00	4.045E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
60	3.152E-05	1.640E-04	0.000E+00	4.848E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00
61 62	3.785E-05 4.465E-05	1.979E-04 2.335E-04	0.000E+00 0.000E+00	5.846∑-06 6.897E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
63	5.199E-05	2.695E-04	0.000E+00	7.969E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00
64	4.786Z-05	2.480E-04	0.000E+00	7.332E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
65	5.533E-05	2.908E-04	0.000E+00	8.583E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
66	6.711E-05	3.591E-04	0.000E+00	1.058E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
67	8.793E-05	4.843E-04	0.000E+00	1.422E-05	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
68	9.302E-05	5.165E-04	0.000E+00	1.515E-05	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00
69 70	9.362E-05	5.176E-04	0.000E+00	1.518E-05	0.0002+00	0.000E+00	0.000E+00	0.000Z+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
	9.176E-05 6.089E-05	5.059E-04 3.300E-04	0.000E+00 0.000E+00	1.485E-05 9.704E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.0002+00
71 72	4.545E-05	2.421E-04	0.000E+00	7.135E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
73	3.362E-05	1.825E-04	0.000E+00	5.365E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
74	2.956E-05	1.540E-04	0.000E+00	4.551E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
75	2.616E-05	1.404E-04	0.000E+00	4.133E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
76	2.288E-05	1.254E-04	0.000E+00	3.682E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
77	1.974E-05	1.083E-04	0.000E+00	3.179E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00
·78 79	1.776E-05	9.396E-05	0.000E+00	2.771E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
80	2.105E-05 2.148E-05	1.090E-04 1.182E-04	0.000E+00 0.000E+00	3.223E-06 3.469E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
81	2.482E-05	1.379E-04	0.000E+00	4.042E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
82	2.873E-05	1.613E-04	0.000E+00	4.724E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
83	3.152E-05	1.774E-04	0.000E+00	5.194E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
84	3.412E-05	1.924E-04	0.000E+00	5.630E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
85	3.625E-05	2.047E-04	0.000E+00	5.990E-06	0.000E+00	0.000E+00	0.000E+00	0.000Z+00	0.000E+00	0.000E+00
86	3.535E-05	1.988E-04	0.000E+00	5.820E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
87 88	1.940E-05 1.325E-05	1.059E-04	0.000E+00	3.112E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
89	9.822E-06	7.102E-05 5.196E-05	0.000E+00 0.000E+00	2.091E-06 1.533E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
90	9.331E-06	4.89ZE-05	0.000E+00	1.445E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
91	4.136E-05	2.297E-04	0.000E+00	6.735E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
92	4.014E-05	2.226E-04	0.000E+00	6.527E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
93	3.877E-05	2.144E-04	0.000E+00	6.288E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
94	3.746E-05	2.059E-04	0.000E+00	6.044E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
95	3.608E-05	1.976E-04	0.000E+00	5.802E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
96 97	3.474E-05	1.898E-04	0.000E+00	5.577E-06 5.377E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
98	3.372E-05 3.164E-05	1.829E-04 1.720E-04	0.000E+00 0.000E+00	5.056E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
99	3.055E-05	1.638E-04	0.000E+00	4.822E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
100	2.874E-05	1.536E-04	0.000E+00	4.524E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
101	2.781E-05	1.460E-04	0.000E+00	4.309E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
102	2.749E-05	1.403E-04	0.000E+00	4.156E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
103	4.717E-05	2.623E-04	0.000E+00	7.689E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
104 105	4.549E-05 4.350E-05	2.521E-04 2.401E-04	0.000E+00 0.000E+00	7.394E-06 7.045E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
106	4.172E-05	2.286E-04	0.000E+00	6.712E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
107	3.991E-05	2.178E-04	0.000E+00	6.400E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
108	3.817E-05	2.074E-04	0.000E+00	6.097E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	C.000E+00
109	3.650E-05	1.968E-04	0.000E+00	5.792E-06	0.000E+00	0.000E+00	0.0C0E+00	0.000E+00	0.000E+00	0.000E+00
110	3.461E-05	1.849E-04	0.000E+00	5.447E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
111	3.248E-05 3.072E-05	1.727E-04	0.000E+00	5.091E-06 4.780E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
112 113	2.907E-05	1.620E-04 1.520E-04	0.000E+00 0.000E+00	4.488E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
114	2.840E-05	1.451E-04	0.000E+00	4.299E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
115	5.496Z-05	3.059E-04	0.000E+00	8.967E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
116	5.244E-05	2.906E-04	0.000E+00	8.522E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
117	4.940E-05	2.721E-04	0.000E+00	7.986E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
118	4.690E-05	2.559E-04	0.000E+00	7.518E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
119 120	4.511E-05	2.428E-04	0.000E+00	7.145E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
120	4.198E-05	2.258E-04	0.000E+00	6.547E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
121 122	3.923E-05 3.715E-05	2.102E-04 1.964E-04	0.000E+00 0.000E+00	6.189E-06 5.792E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
123 124	3.477E-05	1.827E-04	0.000E+00	5.393E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
124	3.401E-05	1.741E-04	0.000E+00	5.157E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
125	3.151E-05	1.619E-04	0.000E+00	4.792E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
126	2.933E-05	1.505E-04	0.000E+00	4.456E-06	0.000E+00	0.000E+00	G.000E+00	0.000E+00	0.000E+00	0.000E+00
127	6.592E-05	3.675E-04	0.000E+00	1.077E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
128 129	6.199E-05		0.000E+00	1.008E-05	0.000E+00 0.000E+00	0.000E+00		0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
129	5.718E-05 5.515E-05		0.000E+00 0.000E+00	9.207E-06 8.655E-06	0.000E+00	0.000E+00 0.000E+00		0.000E+00	0.000E+00	0.000E+00
131	5.113E-05		0.000E+00	7.960E-06	0.000E+00			0.000E+00	0.000E+00	0.000E+00
132	4.721E-05	2.473E-04	G . GGGE+GG	7.302E-06	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
133 134	4.222E-05	2.237E-04	0.000E+00	6.597E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
134	4.057E-05	2.104E-04	0.000E+00	6.220E-06	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00
135	3.797E-05		0.000E+00	5.797E-06	0.000E+00			0.000E+00	0.000E+00	0.000E+00
136 137	3.532E-05 3.284E-05		0.000E+00 0.000E+00		0.000E+00 0.000E+00			0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
138	3.058E-05		0.000E+00		0.000E+00			0.000E+00	0.000E+00	0.000E+00
139	8.485E-05	4.694E-04			0.000E+00			0.000E+00	0.000E+00	0.000E+00

140 7.906E-05 4.332E-04 0.000E 141 6.929E-05 3.739E-04 0.000E 142 6.106E-05 3.247E-04 0.000E 143 5.507E-05 2.900E-04 0.000E 144 5.029E-05 2.624E-04 0.000E 145 4.614E-05 2.399E-04 0.000E 146 4.287E-05 2.222E-04 0.000E 147 3.976E-05 2.061E-04 0.000E 148 3.690E-05 1.912E-04 0.000E 149 3.435E-05 1.779E-04 0.000E 150 3.184E-05 1.648E-04 0.000E 151 4.894E-05 2.536E-04 0.000E	E+00 1.100E-05 0. E+00 9.570E-06 0. E+00 8.559E-06 0. E+00 7.753E-06 0. E+00 7.091E-06 0. E+00 6.569E-06 0. E+00 6.094E-06 0. E+00 5.654E-06 0.	000E+00 0.00 000E+00 0.00 000E+00 0.00 000E+00 0.00 000E+00 0.00 000E+00 0.00	0E+00 0.00E+00 0E+00 0.00E+00 0E+00 0.00E+00 0E+00 0.00E+00 0E+00 0.00E+00 0E+00 0.00E+00 0E+00 0.00E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.000E+00 0 1.000E+00 0 1.000E+00 0 1.000E+00 0	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
142 6.106E-05 3.247E-04 0.000E 143 5.507E-05 2.900E-04 0.000E 144 5.029E-05 2.624E-04 0.000E 145 4.614E-05 2.399E-04 0.000E 147 3.976E-05 2.061E-04 0.000E 148 3.690E-05 1.912E-04 0.000E 149 3.435E-05 1.779E-04 0.000E 150 3.184E-05 1.648E-04 0.000E 151 4.894E-05 2.536E-04 0.000E	E+00 9.370E-06 0. E+00 8.359E-06 0. E+00 7.733E-06 0. E+00 7.091E-06 0. E+00 6.569E-06 0. E+00 6.094E-06 0. E+00 5.654E-06 0.	000E+00 0.00 000E+00 0.00 000E+00 0.00 000E+00 0.00 000E+00 0.00	0E+00 0.000E+00 0E+00 0.000E+00 0E+00 0.000E+00 0E+00 0.000E+00	0.0002+00 ( 0.0002+00 ( 0.0002+00 ( 0.0002+00 ( 0.0002+00 (	1.000E+00 0 1.000E+00 0 1.000E+00 0	0.000E+00 0.000E+00 0.000E+00 0.000E+00
143	E+00 8.359E-06 0. E+00 7.753E-06 0. E+00 7.091E-06 0. E+00 6.569E-06 0. E+00 6.094E-06 0. E+00 5.654E-06 0.	000E+00 0.00 000E+00 0.00 000E+00 0.00 000E+00 0.00	0.0002+00 002+00 0.0002+00 002+00 0.0002+00 002+00 0.0002+00	0.000E+00 ( 0.000E+00 ( 0.000E+00 ( 0.000E+00 (	1.000E+00 (	0.000E+00 0.000E+00
144 5.029E-05 2.624E-04 0.000E 145 4.614E-05 2.399E-04 0.000E 146 4.287E-05 2.222E-04 0.000E 147 3.976E-05 2.061E-04 0.000E 148 3.690E-05 1.912E-04 0.000E 149 3.435E-05 1.779E-04 0.000E 150 3.184E-05 1.648E-04 0.000E 151 4.894E-05 2.536E-04 0.000E 152 4.522E-05 2.352E-04 0.000E	E+00 7.753E-06 0. E+00 7.091E-06 0. E+00 6.569E-06 0. E+00 6.094E-06 0. E+00 5.654E-06 0.	000E+00 0.00 000E+00 0.00 000E+00 0.00	0.000E+00 0E+00 0.000E+00	0.000E+00 (	1.000E+00 (	0.000E+00
146	E+00 6.569E-06 0. E+00 6.094E-06 0. E+00 5.654E-06 0.	000E+00 0.00	0E+00 0.000E+00	0.000E+00		
147 3.976E-05 2.061E-04 0.000E 148 3.690E-05 1.912E-04 0.000E 149 3.435E-05 1.779E-04 0.000E 150 3.184E-05 1.648E-04 0.000E 151 4.894E-05 2.536E-04 0.000E 152 4.522E-05 2.352E-04 0.000E	E+00 6.094E-06 0. E+00 5.654E-06 0.	000E+00 0.00				
148 3.690E-05 1.912E-04 0.000E 149 3.435E-05 1.779E-04 0.000E 150 3.184E-05 1.648E-04 0.000E 151 4.894E-05 2.536E-04 0.000E 152 4.522E-05 2.352E-04 0.000E	E+00 5.654E-06 0.					0.000E+00 0.000E+00
149 3.435E-05 1.779E-04 0.000E 150 3.184E-05 1.648E-04 0.000E 151 4.894E-05 2.536E-04 0.000E 152 4.522E-05 2.332E-04 0.000E			0E+00 0.000E+00			3.000E+00
150 3.184E-05 1.648E-04 0.000E 151 4.894E-05 2.536E-04 0.000E 152 4.522E-05 2.352E-04 0.000E			0.000E+00			0.000E+00
151 4.894E-05 2.536E-04 0.000E 152 4.522E-05 2.352E-04 0.000E			0.000E+00			0.000E+00
152 4.522E-05 2.352E-04 0.000E			0E+00 0.000E+00			0.000E+00
169 A 100P-AF A 100P A			0.000E+00	0.0002+00		0.000E+00
153 4.199E-05 2.188E-04 0.000E	E+00 6.466E-06 0.	.000E+00 0.00	0.000E+00			0.000E+00
154 3.881E-05 2.009E-04 0.0001			0.000E+00			0.000E+00
155 3.642E-05 1.898E-04 0.0007			0.00E+00 0.000E+00			0.000E+00 0.000E+00
156 3.347E-05 1.740E-04 0.0001 157 2.560E-05 1.321E-04 0.0001			0.000E+00 0.000E+00			0.000E+00
157	E+00 3.989E-06 0.		0.000E+00			0.000E+00
159 2.353E-05 1.291E-04 0.0001			0.000E+00			0.000E+00
160 2.267E-05 1.25ZE-04 0.000			30E+00 0.0 <b>00</b> E+00			0.000E+00
161 2.153E-05 1.190E-04 0.0001			0.000E+00			0.000E+00
162 2.056E-05 1.134E-04 0.0001			0.000E+00			0.000E+00
163 1.987E-05 1.091E-04 0.000			00E+00 0.000E+00 00E+00 0.000E+00			0.000E+00 0.000E+00
164 1.868E-05 1.019E-04 0.000 165 1.707E-05 9.211E-05 0.000			00E+00 0.000E+00			0.000E+00
166 1.523E-05 8.154E-05 0.000			00E+00 0.000E+0			0.000E+00
167 1.362E-05 7.292E-05 0.000			00E+00 0.000E+0			0.000E+00
168 2.938E-05 1.615E-04 0.000			00E+00 0.000E+0	0.000E+00		0.000E+00
169 2.919E-05 1.613E-04 0.000	)E+00 4.732E-06 0.		00E+00 0.000E+0			0.000E+00
170 2.783E-05 1.541E-04 0.000			00E+00 0.000E+0			0.000E+00
171 2.624E-05 1.449E-04 0.000			GOE+00 0.000E+0			0.000E+00 0.00GE+00
172 2.484E-05 1.365E-04 0.000			00E+00 0.000E+0 00E+00 0.000E+0		0.000E+00 0.000E+00	0.000E+00
173			00E+00 0.000E+0		0.000E+00	0.000E+00
175 1.896E-05 1.003E-04 0.000			00E+00 0.000E+0		0.000E+00	0.000E+00
176 1.628E-05 8.660E-05 0.000			00E+00 0.000E+0		0.000E+00	0.000E+00
177 1.439E-05 7.672E-05 0.000			00E+00 0.000E+0		0.000E+00	0.000E+00
178 4.074E-05 2.187E-04 0.000	0E+00 6.438E-06 0		00E+00 0.000E+0		0.000E+00	0.000E+00 °
			00E+00 0.000E+0		0.000E+00	0.000E+00
			00E+00 0.000E+0		0.000E+00 0.000E+00	0.000E+00 0.000E+00
			00E+00 0.000E+0		G.000E+00	0.000E+00
			00E+00 0.000E+0		0.000E+00	0.000E+00
			00E+00 0.000E+0		0.000E+00	0.000E+00
			0.000E+0		0.000E+00	0.000E+00
186 1.766E-05 9.285E-05 0.000	QE+QG 2.740E-Q6 Q		100E+00 0.000E+0		0.000E+00	0.000E+00
			100E+00 0.000E+0		0.000E+00	0.000E+00
			100E+00 0.000E+0		0.000E+00 0.000E+00	0.000E+00
			100E+00		0.000E+00	0.000E+00 0.000E+00
			0.000E+00		0.000E+00	0.000E+00
			00E+00 0.000E+0		0.000E+00	0.000E+00
			00E+00 0.000E+0	0.000E+00	0.000E+00	0.000E+00
194 2.786E-05 1.427E-04 0.000	IOE+00 4.227E-06 0		0.00E+00 0.000E+0		0.000E+00	0.000E+00
			0.00E+00 0.000E+0		0.000E+00	0.000E+00
			0.000E+00 0.000E+0		0.000E+00	0.000E+00 0.000E+00
			300E+00 0.000E+0 300E+00 0.000E+0		0.000E+00 0.000E+00	0.000E+00
			300E+00 0.000E+0		0.000E+00	0.000E+00
			000E+00 0.000E+0		0.000E+00	0.000E+00
		0.000E+00 0.	000E+00 0.000E+0	0.000E+00	0.000E+00	0.000E+00
202 3.072E-05 1.589E-04 0.00	30E+00 4.700E-06 0		000E+00 0.000E+0		0.000E+00	0.000E+00
			000E+00 0.000E+		0.000E+00	0.000E+00
			000E+00 0.000E+0 000E+00 0.000E+0		0.000E+00 0.000E+00	0.000E+00 0.000E+00
			000E+00 0.000E+ 000E+00 0.000E+		0.000E+00	0.000E+00
	00E+00 2.327E-06		000E+00 0.000E+		0.000E+00	0.000E+00
	00E+00 2.333E-07 (	0.000E+00 0.	000E+00 0.000E+		0.000E+00	0.000E+00
209 1.729E-06 9.041E-06 0.00	00E+00 2.670E-07 (	0.000E+00 0.	000E+00 0.000E+		0.000E+00	0.000E+00
210 2.024E-06 1.062E-05 0.00			000E+00 0.000E+	00 0.000E+00	0.000E+00	0.000E+00
211 2.370E-06 1.251E-05 0.00			000E+00 0.000E+		0.000E+00 0.000E+00	0.000E+00
212 2.820E-06 1.500E-05 0.00	00E+00 4.421E-07 (		000E+00		0.000E+00	0.000E+00 0.000E+00
		0.000E+00 0. 0.000E+00 0.	000E+00 0.000E+		0.000E+00	0.000E+00
215 5.663E-06 3.069E-05 0.00		0.000E+00 0.	000E+00 0.000E+		0.000E+00	0.000E+00
216 6.751E-06 3.659E-05 0.00			000E+00 0.000E+	00 0.000E+00	0.000E+00	0.000E+00
217 7.737E-06 4.215E-05 0.00	00E+00 1.239E-06		000E+00 0.000E+		0.000E+00	0.000E+00
218 8.260E-06 4.510E-05 0.00		0.000E+00 0.	000E+00 0.000E+		0.000E+00	0.000E+00
219 8.526E-06 4.657E-05 0.00 220 8.030E-06 4.370E-05 0.00			000E+00 0.000E+	00 0.000E+00 00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
220 8.030E-06 4.370E-05 0.00 221 7.357E-06 4.013E-05 0.00	00E+00 1.284E-06		000E+00 0.000E+ 000E+00 0.000E+		0.000E+00	0.000E+00
221 7.357E-06 4.013E-05 0.00		0.000E+00 0.	000E+00 0.000E+		0.000E+00	0.000E+00
222 5.759E+06 3.714F+05 0.00			000E+00 0.000E+		0.000E+00	0.000E+00
222 6.759E-06 3.714E-05 0.00 223 6.731E-06 3.695E-05 0.00	00E+00 1.086E-06	0.000E+00 0.	.000E+00 0.000E+	00 0.000E+00	0.000E+00	0.000E+00
223 6.731E-06 3.695E-05 0.00			000E+00 0.000E+	00 0.000E+00	0.000E+00	0.000E+00
222 6.759E-06 3.714E-05 0.00 223 6.731E-06 3.695E-05 0.00 224 6.790E-06 3.694E-05 0.00 225 6.740E-06 3.622E-05 0.00	00E+00 1.066E-06			00 0.0005700		
222 6.759E-06 3.714E-05 0.00 223 6.731E-06 3.695E-05 0.00 224 6.790E-06 3.694E-05 0.00 225 6.740E-06 3.622E-05 0.00 226 6.425E-06 3.435E-05 0.00	00E+00 1.012E-06	0.000E+00 0.	000E+00 0.000E+	00 0.000E+00	0.000E+00	0.000E+00
222 6.759E-06 3.714E-05 0.00 223 6.731E-06 3.695E-05 0.00 224 6.790E-06 3.694E-05 0.00 225 6.740E-06 3.622E-05 0.00 226 6.425E-06 3.435E-05 0.00 227 1.517E-06 7.776E-06 0.00	100E+00 2.303E-07	0.000E+00 0.	000E+00 0.000E+	00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
222 6.759E-06 3.714E-05 0.00 223 6.731E-06 3.695E-05 0.00 224 6.790E-06 3.694E-05 0.00 225 6.740E-06 3.622E-05 0.00 226 6.425E-06 3.435E-05 0.00 227 1.517E-06 7.776E-06 0.00 228 1.770E-06 9.164E-06 0.00	00E+00 2.303E-07 00E+00 2.710E-07	0.000E+00 0. 0.000E+00 0.	000E+00 0.000E+ 000E+00 0.000E+	00 0.000E+00 00 0.000E+00 00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00
222 6.759E-06 3.714E-05 0.00 223 6.731E-06 3.695E-05 0.00 224 6.790E-06 3.694E-05 0.00 225 6.740E-06 3.622E-05 0.00 226 6.425E-06 3.435E-05 0.00 227 1.517E-06 7.776E-06 0.00 228 1.770E-06 9.164E-06 0.00 229 2.062E-06 1.077E-05 0.00 230 2.447E-06 1.287E-05 0.00	00E+00	0.000E+00 0. 0.000E+00 0. 0.000E+00 0.	0.00E+00 0.000E+ 000E+00 0.000E+ 000E+00 0.000E+ 000E+00 0.000E+	00 0.000E+00 00 0.000E+00 00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00
222 6.759E-06 3.714E-05 0.00 223 6.731E-06 3.695E-05 0.00 224 6.790E-06 3.694E-05 0.00 225 6.740E-06 3.622E-05 0.00 226 6.425E-06 3.435E-05 0.00 227 1.517E-06 7.776E-06 0.00 228 1.770E-06 9.164E-06 0.00 229 2.062E-06 1.077E-05 0.00 230 2.447E-06 1.287E-05 0.00 231 2.937E-06 1.556E-05 0.00	000E+00 2.303E-07 000E+00 2.710E-07 000E+00 3.182E-07 000E+00 3.798E-07	0.000E+00 0. 0.000E+00 0. 0.000E+00 0. 0.000E+00 0.	0.00E+00 0.00E+ 000E+00 0.00E+ 000E+00 0.00E+ 000E+00 0.00E+	00 0.000E+00 00 0.000E+00 00 0.000E+00 00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
222 6.759E-06 3.714E-05 0.00 223 6.731E-06 3.695E-05 0.00 224 6.790E-06 3.692E-05 0.00 225 6.740E-06 3.622E-05 0.00 226 6.425E-06 3.435E-05 0.00 227 1.517E-06 7.776E-06 0.00 228 1.770E-06 9.164E-06 0.00 229 2.062E-06 1.077E-05 0.00 230 2.447E-06 1.287E-05 0.00 231 2.937E-06 1.556E-05 0.00 232 3.618E-06 1.934E-05 0.00	00E+00 2.303E-07  00E+00 2.710E-07  00E+00 3.182E-07  00E+00 3.798E-07  00E+00 4.588E-07  00E+00 5.697E-07	0.000E+00 0.000E	0.00E+00 0.000E+ 0.00E+00 0.000E+ 0.00E+00 0.000E+ 0.00E+00 0.000E+ 0.00E+00 0.000E+ 0.00E+00 0.00E+	00 0.00E+00 00 0.00E+00 00 0.00E+00 00 0.00E+00 00 0.00E+00 00 0.00E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
222 6.759E-06 3.714E-05 0.00 223 6.731E-06 3.695E-05 0.00 224 6.790E-06 3.694E-05 0.00 225 6.740E-06 3.622E-05 0.00 226 6.425E-06 3.435E-05 0.00 227 1.517E-06 7.776E-06 0.00 228 1.770E-06 9.164E-06 0.00 229 2.062E-06 1.077E-05 0.00 230 2.447E-06 1.287E-05 0.00 231 2.937E-06 1.556E-05 0.00 232 3.618E-06 1.934E-05 0.00 233 4.677E-06 2.518E-05 0.00	100E+00   2.303E-07   100E+00   2.710E-07   100E+00   3.182E-07   100E+00   4.588E-07   100E+00   5.697E-07   100E+00   7.412E-07	0.000E+00 0. 0.000E+00 0. 0.000E+00 0. 0.000E+00 0. 0.000E+00 0. 0.000E+00 0.	000E+00 0.000E+ 000E+00 0.000E+ 000E+00 0.00E+ 000E+00 0.00E+ 000E+00 0.00E+ 000E+00 0.00E+ 000E+00 0.00E+	00 0.000E+00 00 0.000E+00 00 0.000E+00 00 0.000E+00 00 0.000E+00 00 0.000E+00 00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
224 6.790E-06 3.694E-05 0.00 225 6.740E-06 3.692E-05 0.00 226 6.425E-06 3.435E-05 0.00 227 1.517E-06 7.776E-06 0.00 228 1.770E-06 9.164E-06 0.00 229 2.062E-06 1.077E-05 0.00 230 2.447E-06 1.287E-05 0.00 231 2.937E-06 1.556E-05 0.00 232 3.618E-06 1.934E-05 0.00 233 4.677E-06 2.518E-05 0.00 234 6.152E-06 3.334E-05 0.00	100E+00	0.000E+00 0.000E	.000E+00 0.000E+ 000E+00 0.000E+ .000E+00 0.000E+ .000E+00 0.000E+ .000E+00 0.000E+ .000E+00 0.000E+ .000E+00 0.000E+ .000E+00 0.000E+	00 0.000E+00 00 0.000E+00 00 0.000E+00 00 0.000E+00 00 0.000E+00 00 0.000E+00 00 0.000E+00 00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
224 6.790E-06 3.694E-05 0.00 225 6.740E-06 3.632E-05 0.00 226 6.425E-06 3.435E-05 0.00 227 1.517E-06 7.776E-06 0.00 228 1.770E-06 9.164E-06 0.00 229 2.062E-06 1.077E-05 0.00 230 2.447E-06 1.287E-05 0.00 231 2.937E-06 1.556E-05 0.00 232 3.618E-06 1.934E-05 0.00 233 4.677E-06 2.518E-05 0.00 234 6.152E-06 3.334E-05 0.00 235 7.734E-06 4.201E-05 0.00	100E+00   2.303E-07   100E+00   2.710E-07   100E+00   3.182E-07   100E+00   4.588E-07   100E+00   5.697E-07   100E+00   7.412E-07	0.00E+00 0. 0.000E+00 0.	000E+00 0.000E+ 000E+00 0.000E+ 000E+00 0.00E+ 000E+00 0.00E+ 000E+00 0.00E+ 000E+00 0.00E+ 000E+00 0.00E+	00 0.00E+00 00 0.00E+00 00 0.00E+00 00 0.00E+00 00 0.00E+00 00 0.00E+00 00 0.00E+00 00 0.00E+00 00 0.00E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

237	1.003E-05	5.485E-05	0.0007400	1 (117 44						
238	1.022E-05	5.583E-05	0.000E+00 0.000E+00	1.611E-06 1.640E-06	0.0002+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
239	9.524E-06	5.189E-05	0.000E+00	1.525E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
240	8.701E-06	4.770E-05	0.000E+00	1.401E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
241	8.328E-06	4.586E-05	0.000E+00	1.346E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
242	8.352E-06	4.568E-05	0.000E+00	1.342E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
243	8.147E-06	4.397E-05	0.000E+00	1.294E-06	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.0002+00
244	7.689E-06	4.111E-05	0.000E+00	1.211E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000 <u>2+00</u> 0.000 <u>2+00</u>
245	6.874E-06	3.674E-05	0.000E+00	1.082E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
246	1.402E-06	7.175E-06	0.000E+00	2.125E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
247	1.730E-06	8.833E-06	0.000E+00	2.617E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
248	2.073E-06	1.072E-05	0.000E+00	3.170E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
249 250	2.496E-06	1.306E-05	0.000E+00	3.858E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
251	3.052E-06 3.797E-06	1.608E-05	0.000E+00	4.745E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
252	4.921E-06	2.022E-05 2.647E-05	0.000E+00	5.958E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
253	6.724E-06	3.646E-05	0.000E+00	7.790E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
254	8.946E-06	4.872E-05	0.000E+00 0.000E+00	1.072E-06 1.432E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	G.000E+00	0.000E+00
255	1.115E-05	6.083E-05	0.000E+00	1.787E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
255 256	1.253E-05	6.858E-05	0.000E+00	2.014E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
257	1.257E-05	6.872E-05	0.000E+00	2.019E-06	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
258	1.179E-05	6.448E-05	0.000E+00	1.894E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
259	1.090E-05	6.004E-05	0.000E+00	1.762E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
260	1.070E-05	5.885E-05	0.000E+00	1.727E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
261	1.023E-05	5.555E-05	0.000E+00	1.633E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
262 263	9.441E-06	5.054E-05	0.000E+00	1.488E-06	0.000E+00	0.000E+00	0.000E+00	0.0002+00	3.000 <del>E+0</del> 0	0.0002+00
264	8.376E-06 7.050E-06	4.479E-05	0.000E+00	1.319E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
265	1.428E-06	3.784E-05	0.000E+00	1.114E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
266	1.639E-06	7.231E-06 8.383E-06	0.000E+00	2.145E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
267	2.008E-06	1.027E-05	0.000E+00	2.483E-07 3.042E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
268	2.472E-06	1.277E-05	0.000E+00 0.000E+00	3.779E-07	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
269	3.103E-06	1.627E-05	0.000E+00	4.803E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
270	3.94ZE-06	2.092E-05	0.000E+00	6.167E-07	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
271	5.240E-06	2.810E-05	0.000E+00	8.274E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
272	7.299E-06	3.959E-05	0.000E+00	1.164E-06	0.000E+00	3.000E+00	0.000E+00	0.000E+00	0.000E+00	
273	1.056E-05	5.762E-05	0.000E+00	1.693E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
274	1.461E-05	7.809E-05	0.000E+00	2.300E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
275	1.647E-05	8.981E-05	0.000E+00	2.639E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
276	1.633E-05	8.939E-05	0.000E+00	2.625E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
277	1.535E-05	8.446E-05	0.000E+00	2.479E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
278 279	1.440E-05	7.942E-05	0.000E+00	2.330E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
280	1.372E-05 1.218E-05	7.504E-05	0.000E+00	2.204E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
281	1.045E-05	6.545E-05 5.592E-05	0.000E+00	1.926E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
282	8.653E-06	4.651E-05	0.0002+00	1.647E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
283	6.878E-06	3.707E-05	0.000E+00 0.000E+00	1.369E-06 1.091E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
284	1.462E-06	7.392E-06	0.000E+00	2.193E-07	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
285	1.707E-06	8.620E-06	0.000E+00	2.557E-07	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	G.000E+00
286	1.989E-06	1.019E-05	0.000E+00	3.017E-07	0.000E+00	0.000E+00	0.000 <u>E</u> +00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
287	2.438E-06	1.258E-05	0.000E+00	3.723E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00
288	3.062E-06	1.592E-05	0.000E+00	4.705E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
289	4.008E-06	2.111E-05	0.000E+00	6.228E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
290	5.476E-06	2.924E-05	0.000E+00	8.615E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
291	8.001E-06	4.341E-05	0.000E+00	1.276E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
292 293	1.483E-05	7.590E-05	0.000E+00	2.248E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
294	1.352E-05 1.100E-05	1.018E-04	0.000E+00	2.988E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
295	8.428E-06	5.921E-05 4.555E-05	0.000E+00	1.743E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
296	6.302E-06	3.405E-05	0.000E+00 0.000E+00	1.340E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
297	1.337E-06	6.712E-06	0.000E+00	1.002E-06 1.993E-07	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000 <del>E+00</del>
298	1.621E-06	8.127E-06	0.000E+00	2.413E-07	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
299	1.980E-06	9.920E-06	0.000E+00	2.946E-07	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
300	2.3662-06	1.204E-05	0.000E+00	3.569E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
301	2.986E-06	1.545E-05	0.000E+00	4.568E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
302	3.979E-06	2.090E-05	0.000E+00	6.169E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
303	5.635E-06	3.002E-05	0.000E+00	8.846E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
304 30 <i>5</i>	8.665E-06	4.688E-05	0.000E+00	1.379E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
306	1.548E-05	8.482E-05	0.000E+00	2.491E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
307	1.090E-05 7.792E-06	5.932E-05 4.239E-05	0.000E+00	1.743E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.300E+00
308	5.768E-06	3.140E-05	0.000E+00	1.246E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	G.000E+00
309	1.146E-06	5.562E-06	0.000E+00 0.000E+00	9.228E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
310	1.386Z-06	6.854E-06	0.000E+00	1.659E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
311	1.723E-06	8.621E-06	0.000E+00	2.039E-07 2.561E-07	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
312	2.179E-06	1.099E-05	0.000E+00	3.262E-07	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
313	2.787E-06	1.419E-05	0.000E+00	4.205E-07	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
314	3.756E-06	1.945E-05	0.000E+00	4.205E-07 5.752E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
315	5.423E-06	2.853E-05	0.000E+00	8.420E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
316	8.753E-06	4.701E-05	0.000E+00	1.384E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
317	1.826E-05	1.009E-04	0.000E+00	2.959E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.000E+00
318	9.947E-06	5.423E-05	0.000E+00	1.593E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
319 320	6.813E-06	3.705E-05	0.000E+00	1.089E-06 8.141E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
321	5.096E-06 1.013E-06	2.770E-05	0.000E+00	8.141E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
322	1.229E-06	4.830E-06	0.000E+00	1.444E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
323	1.434E-06	5.816E-06 6.935E-06	0.000E+00 0.000E+00	1.741E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
323 324	1.751E-06	8.683E-06	0.000E+00	2.069E-07 2.582E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
325	2.318E-06	1.168E-05	0.000E+00	3.466E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
326	3.235E-06	1.643E-05	0.000E+00	4.870E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
327	4.701E-06	2.438E-05	0.000E+00	7.207E-07	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
328	7.951E-06	4.196E-05	0.000E+00	1.238E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
329	1.855E-05	1.016E-04	0.000E+00	2.984E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
330	8.495E-06	4.6472-05	0.000E+00	1.365E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
331	6.221E-06	3.388E-05	0.000E+00	9.957E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
332 333	4.934E-06	2.680E-05	0.000E+00	7.879E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
333	8.684E-07	4.373E-06	0.000E+00	1.298E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

334	1.009E-06	5.071E-06	0.000E+00	1.505E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.005+00	G 000F100
335	1.208E-06	6.038E-06	0.000E+00	1.794E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
336	1.502E-06	7.450E-06	0.000E+00	2.215E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
337	1.947E-06	9.573 <b>E-</b> 06	0.000E+00	2.850E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
338	2.570E-06	1.276E-05	0.000E+00	3.794E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
339	3.870E-06	1.953E-05	0.000E+00	5.796E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	G.000E+00	0.000E+00
340 341	6.701E-06 2.262E-05	3.464E-05 1.252E-04	0.000E+00	1.025E-06 3.673E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
342	1.117E-05	6.117E-05	0.000E+00 0.000E+00	1.796E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
343	7.591E-06	4.137E-05	0.000E+00	1.216E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
344	5.689E-06	3.092E-05	0.000E+00	9.089E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
345	4.442E-06	2.409E-05	0.000E+00	7.084E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
346	8.667E-07	4.082E-06	0.000E+00	1.222E-07	0.000E+00	0.000E+00	G.000E+00	0.000E+00	0.000E+00	0.000E+00
347	9.246E-07	4.510E-06	0.000E+00	1.344E-07	0.000E+00	0.000Z+00	0.000Z+00	0.000E+00	0.000E+00	0.000E+00
348 349	1.055E-06	5.236Z-06	0.000E+00	1.557E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
350	1.240E-06 1.536E-06	6.263E-06 7.849E-06	0.000E+00 0.000E+00	1.858E-07 2.325E-07	0.000E+00 0.000E+00	0.0002+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
351	2.034E-06	1.045E-05	0.000E+00	3.093E-07	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
352	3.031E-06	1.554E-05	0.000E+00	4.601E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000 <u>2</u> +00 0.000 <u>2</u> +00
353	5.128E-06	2.606E-05	0.000E+00	7.725E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
354	1.565E-05	8.709E-05	0.000E+00	2.552E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
355	8.896E-06	4.883E-05	0.000E+00	1.434E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
356 357	6.165E-06 4.697E-06	3.361E-05	0.000E+00	9.875E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
358	3.806Z-06	2.552E-05 2.067E-05	0.000E+00 0.000E+00	7.503E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
359	7.665E-07	3.605E-06	0.000E+00	6.076E-07 1.080E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
360	8.796E-07	4.1672-06	0.000E+00	1.247E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
361	9.329E-07	4.650E-06	0.000E+00	1.382E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
362	1.096E-06	5.570E-06	0.000E+00	1.651E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
363	1.339E-06	6.905E-06	0.000E+00	2.043E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
364 365	1.705E-06 2.288E-06	8.919E-06 1.203E-05	0.000E+00	2.634E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366	3.570E-06	1.886E-05	0.0002+00 0.000E+00	3.550E-07 5.563E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
367	7.891E-06	4.205E-05	0.000E+00	1.239E-06	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00
368	2.697E-05	1.432E-04	0.000E+00	4.221E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
369	1.984E-05	1.095E-04	0.000E+00	3.213E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370	1.165E-05	6.425E-05	0.000E+00	1.885E-06	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00
371	7.436E-06	4.081E-05	0.000E+00	1.198E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372 373	5.248E-06 3.981E-06	2.8662-05	0.000E+00	8.420E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
374	3.229E-06	2.167E-05 1.753E-05	0.000E+00	6.369E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
375	7.217E-07	3.438E-06	0.000E+00 0.000E+00	5.153E-07 1.028E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
376	8.337E-07	3.990E-06	0.000E+00	1.192E-07	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
377	9.658E-07	4.679E-06	0.000E+00	1.396E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
378	1.031E-06	5.305E-06	0.000E+00	1.570E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
379	1.274E-06	6.636E-06	0.000E+00	1.961E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
380	1.626E-06	8.463E-06	0.000E+00	2.501E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
381 382	2.177E-06 3.091E-06	1.1352-05	0.000E+00	3.353E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
383	5.938E-06	1.633E-05 3.168E-05	0.000E+00 0.000E+00	4.818E-07 9.335E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
384	1.219E-05	6.397E-05	0.000E+00	1.889E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
385	1.547E-05	8.090E-05	0.000E+00	2.390E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
386	1.689E-05	8.89 <b>5E-0</b> 5	0.000E+00	2.625E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
387	1.568E-05	8.382E-05	0.000E+00	2.469E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
388	1.273E-05	6.912E-05	0.000E+00	2.032E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
389 390	9.338E-06 6.610E-06	5.098E-05 3.608E-05	0.000E+00	1.498E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
391	4.899E-06	2.675E-05	0.000E+00 0.000E+00	1.060E-06 7.859E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+06	0.000E+00	0.000E+00
392	3.753E-06	2.046E-05	0.800E+00	6.013E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
393	3.037E-06	1.650E-05	0.000E+00	4.85ZE-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
394	7.046E-07	3.419E-06	0.000E+00	1.020E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
395	8.394E-07	4.104E-06	0.000E+00	1.223E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
396 397	1.031E-06 1.143E-06	4.995E-06	0.000E+00	1.490E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
398	1.278E-06	5.703E-06 6.481E-06	0.000E+00 0.000E+00	1.695E-07 1.922E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
399	1.479E-06	7.607E-06	0.000E+00	2.252E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00
400	1.839E-06	9.661E-06	0.000E+00	2.852E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00
401	2.685E-06	1.429E-05	0.000E+00	4.212E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
402	4.793E-06	2.549E-05	0.000E+00	7.514E-07 1.227E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
403	7.917E-06	4.158E-05	0.000E+00	1.227E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
404	1.031E-05 1.149E-05	5.413E-05 6.013E-05	0.000E+00	1.598E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
406	1.089E-05	5.809E-05	0.000E+00 0.000E+00	1.776E-06 1.711E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
407	9.355E-06	5.038E-05	0.000E+00	1.483E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
408	7.417E-06	4.028E-05	0.000E+00	1.184E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
409	5.807E-06	3.151E-05	0.000E+00	9.264E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
410	4.6062-06	2.500E-05	0.000E+00	7.350E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
411 412	3.674E-06 2.932E-06	2.000E-05 1.595E-05	0.000E+00	5.877E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
413	1.136E-06	5.679E-06	0.000E+00 0.000E+00	4.687E-07 1.687E-07	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
414	9.718E-07	4.923E-06	0.000E+00	1.460E-07	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
415	9.004E-07	4.588E-06	0.000E+00	1.360E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
416	1.278E-06	6.628E-06 6.063E-06	0.000E+00	1.960E-07	0.00GE+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
417	1.164E-06	6.063E-06	0.000E+00	1.792E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
418 419	1.211E-06	6.294E-06	0.000E+00	1.860E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
420	1.619E-06 1.687E-06	8.569E-06 8.835E-06	0.000E+00 0.000E+00	2.527E-07 2.609E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
421	1.635E-06	8.393E-06	0.000E+00	2.485E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
422	2.512E-06	1.3262-05	0.000E+00	3.912E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
423 424	2.328E-06	1.221E-05	0.000E+00	3.606E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
424	2.205E-06	1.150E-05	0.000E+00	3.397E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
425	4.050E-06	2.141E-05	0.000E+00	6.315E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
426 427	3.560E-06	1.872E-05	0.000E+00	5.525E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
428	3.211E-06 6.058E-06	1.6832-05 3.185E-05	0.000E+00 0.000E+00	4.970E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
429	4.965E-06	2.611E-05	0.000E+00	9.401E-07 7.706E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.0002+00
					- AUGUSTUU		ULTEUU.	u . uuuettud		
430	4.193E-06	2.202E-05	0.000E+00	6.501E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00

431	7.565E-06	3.978E-05	0.000E+00	1.174E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
432	5.855E-06	3.074E-05	0.000E+00	9.076E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
433	4.748E-06	2.492E-05	0.000E+00	7.356E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
434	8.302E-06	4.358E-05	0.000E+00	1.287E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
435	6.347E-06	3 351E-05	0.000E+00	9.886E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
436	5.049E-06	2.674E-05	0.000E+00	7.886E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
437	8.251E-06	4.363E-05	0.000E+00	1.287E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
438	6.414E-06	3.387E-05	0.000E+00	9.991E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
439	5.111E-06	2.710E-05		7.991E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
440	7.324E-06	3.911E-05	0.000E+00	1.152E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
			0.000E+00					0.000E+00	0.000E+00	
441	6.025E-06	3.183E-05	0.000E+00	9.389E-07	0.000E+00	0.000E+00	0.000E+00			0.000E+00
442	4.992E-06	2.634E-05	0.000E+00	7.770E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
443	6.229E-06	3.312E-05	0.000E+00	9.762E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
444	5.372E-06	2.810E-05	0.000E+00	8.300E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
445	4.443E-06	2.358E-05	0.000E+00	6.952E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
446	5.046E-06	2.721E-05	0.000E+00	8.006E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
447	4.299E-06	2.323E-05	0.000E+00	6.834E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
448	3.773E-06	2.026E-05	0.000E+00	5.963E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
449	4.137E-06	2.238E-05	0.000E+00	6.583E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
450	3.641E-06	1.966E-05	0.000E+00	5.785E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
451	3.241E-06	1.747E-05	0.000E+00	5.142E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
731	J.2415 00	1.7472 03	0.000E.00	J. 1721 07	0.0002.00	0.0002.00	0.0002.00	0.0000.00	0.0000.00	0.0002.00

#### ABOVE CONCENTRATIONS DO NOT INCLUDE THE FOLLOWING BACKGROUND CONCENTRATIONS:

0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET, PM10 \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\GQpmaCE.OUT 11/14/96 07:00:20 Fage - 100

### \*\*\* PREDICTED ANNUAL CONCENTRATIONS (ug/m3) FROM ALL SOURCES \*\*\*

RECEPTOR	Zn	NIXP				
1 2 3 4 5 6 7	4.247E-06	4.053E-01				
4	6.363E-06 6.319E-06	6.040E-01 5.996E-01				
4	8.210E-06	5.996E-01 7.810E-01				
5	8.284E-06	7.881E-01				
6	7.523E-06	7.162E-01				
8	6.645E-06 6.683E-06	6.321E-01 6.382E-01 6.642E-01				
9	6.942E-06 8.812E-06 3.593E-06	6.642E-01				
10	8.812E-06	8.389E-01 3.424E-01				
11	3.593E-06	3.424E-01				
12 13	8.812E-06 3.593E-05 1.559E-05 6.755E-06 6.811E-06 6.635E-06 7.540E-06 3.977E-06 5.998E-06 8.352E-06 6.092E-06	1.490E+00				
14	6.811E-06	6.599E-01				
15	6.635E-06	6.430E-01				
16 17	7.540E-06	7.302E-01				
17	3.977E-06	3.795E-01				
18 19	5 950E-06	5 738E-01				
20	8.352E-06	8.041E-01				
21		5.923E-01				
22 23	5.674E-06	5.549E-01				
23 24	5.674E-06 5.655E-06 5.618E-06 5.662E-06	5.538E-01				
25	5.662E-06	5 527E-01				
25 26 27	6 004E-06	5.788E-01				
27	6.150E-06	1.490E+00 6.544E-01 6.544E-01 7.302E-01 7.302E-01 5.747E-01 5.748E-01 5.749E-01 5.549E-01 5.549E-01 5.549E-01 5.549E-01 5.549E-01				
28	6.571E-06	6.294E-01				
29 30	8.334E-06 8.827E-06	8.002E-01 8.490E-01				
30 31	9.234E-06	8.896E-01				
32 33	9.234E-06 9.261E-06	8.896E-01 8.940E-01				
33	1.025E-05	9.917E-01				
34 35	1.132E-05 1.206E-05	1.096E+00 1.168E+00				
36	1.259E-05	1 2185+00				
36 37	1.264E-05	7 2215+00				
38 39	1.228E-05	1.183E+00 1.445E+00				
39	1.497E-05	1.445E+00				
40 41	1.497E-05 1.896E-05 2.583E-05	2 51AF+00				
42	3.938E-05	1.833E+00 2.514E+00 3.857E+00 3.249E+00				
43	3.938E-05 3.347E-05	3.249E+00				
44	3.081E-05 2.988E-05	2.914E+00 2.795E+00 1.772E+00 2.620E+00				
45 46	2.988E-05	2./95E+00				
47	1.885E-05 2.768E-05	2.620E+00				
48	3.628E-05	J.JOZETUU				
49	4.293E-05	4 001E-00				
50 51	4.601E-05 2.415E-05	4.295E+00 2.281E+00				
52	1.604E-05	1.519E+00				
52 53	1.164E-05	1.104E+00				
54	9.363E-06	1.104E+00 9.099E-01 9.697E-01 1.055E+00				
55	1.011E-05	9.697E-01				
56	1.098E-05	1.055E+00				

57 58 59 60 61 62 63 64 65 66 67	1.161E-05 1.454E-05 1.801E-05 2.157E-05 2.608E-05 3.077E-05 3.538E-05 3.254E-05 4.780E-05 4.780E-05	1.102E+00 1.383E+00 1.749E+00 2.095E+00 2.528E+00 2.528E+00 3.147E+00 3.713E+00 4.586E+00 6.185E+00
66234566777777777777788123345678899999999999999999999999999999999999	1.461E-05 1.451E-05 1.801E-05 1.801E-05 1.801E-05 1.801E-05 1.801E-05 3.077E-05 3.058E-05 3.254E-05 3.254E-05 3.254E-05 3.254E-05 1.401E-05	1.383E+00 1.749E+00 2.393E+00 2.393E+00 2.393E+00 3.167E+00 3.167E+00 3.173E+00 6.185E+00 6.185E+00 6.185E+00 1.793E+00 2.1965E+00 3.200E+00 3.
81 82 83 84 85 86 87 88 99 99 99	1.865E-05 2.192E-05 2.413E-05 2.618E-05 2.787E-05 2.702E-05 1.422E-05 9.463E-06 6.883E-06 6.455E-06 3.107E-05	1.761E+00 2.061E+00 2.266E+00 2.457E+00 2.614E+00 2.539E+00 1.353E+00 9.071E-01 6.636E-01 6.636E-01 2.933E+00
93 94 95 96 97 98 99 100 101 102	2.894E-05 2.773E-05 2.656E-05 2.550E-05 2.449E-05 2.305E-05 2.182E-05 2.043E-05 1.927E-05 3.549E-05	2.73E+00 2.629E+00 2.523E+00 2.425E+00 2.336E+00 2.196E+00 2.092E+00 1.961E+00 1.864E+00 1.792E+00 3.350E+00
103 104 105 106 107 108 109 110 111 112 113 114	3.239E-05 3.074E-05 2.925E-05 2.780E-05 2.629E-05 2.460E-05 2.294E-05 2.143E-05 2.002E-05 1.892E-05 4.141E-05	3.067E+00 2.919E+00 2.782E+00 2.649E+00 2.514E+00 2.362E+00 2.206E+00 2.069E+00 1.953E+00 3.907E+00
108 109 111 112 113 114 115 116 117 118 1120 121 122 123 124 125 127 128	3.926E-05 3.667E-05 3.40E-05 3.240E-05 3.013E-05 2.779E-05 2.600E-05 2.413E-05 2.273E-05 2.116E-05 1.966E-05 4.978E-05	3.475E+00 3.475E+00 3.101E+00 2.884E+00 2.508E+00 2.334E+00 2.224E+00 2.067E+00 4.693E+00
128 129 130 131 132 133 134 135 136 137 138	1.966E-05 4.978E-05 4.978E-05 4.644E-05 4.217E-05 3.570E-05 3.261E-05 2.761E-05 2.761E-05 2.395E-05 2.395E-05 2.395E-05 3.383E-05 4.310E-05 3.455E-05 3.455E-05 2.915E-05 2.915E-05 2.915E-05 2.915E-05 2.915E-05 2.915E-05	4.388E+00 4.004E+00 3.751E+00 3.445E+00 3.158E+00 2.857E+00 2.502E+00 2.333E+00 2.163E+00 2.163E+00
139 140 144 144 144 145 146 147 149 151 151	6.338E-05 5.826E-05 4.996E-05 4.310E-05 3.845E-05 3.455E-05 2.915E-05 2.704E-05 2.509E-05 2.162E-05 3.328E-05 3.328E-05	2.502E+00 2.333E+00 2.163E+00 2.009E+00 5.994E+00 4.775E+00 4.146E+00 3.704E+00 3.352E+00 3.064E+00 2.837E+00 2.442E+00 2.442E+00 2.105E+00 3.04E+00 3.352E+00
151 152 153	3.328E-05 3.091E-05 2.879E-05	3.239E+00 3.004E+00 2.795E+00

1556 1557 1558 1560 1661 1663 1667 1667 1671 1773 1774 1778 1778 1778 1778 1778 1778 1778	2.497E-055 1.737E-055 1.737E-055 1.737E-055 1.737E-055 1.737E-055 1.1457E-055 1.1457E-055 1.1457E-055 1.1457E-055 1.1457E-055 1.1457E-055 1.1457E-055 1.1457E-055 1.1457E-055 1.1457E-055 1.1457E-055 1.1527E-066 1.1527E-066	2.565E+000 1.648E+000 1.724E+000 1.648E+000 1.724E+000 1.724E+000 1.724E+000 1.724E+000 1.724E+000 1.724E+000 1.724E+000 1.724E+000 1.724E+000 1.724E+000 1.724E+000 1.724E+000 1.724E+000 1.724E+000 1.724E+000 1.725E+000 1.726E-011
--	--	--

331 4.544E-06 4.327E-01 332 3.591E-06 3.423E-01 333 5.662E-07 5.585E-02 334 6.560E-07 7.711E-02 335 7.790E-07 7.711E-02 336 9.579E-07 9.515E-02 337 1.225E-06 1.223E-01 338 1.641E-06 1.630E-01 339 2.532E-06 2.495E-01 340 4.541E-06 4.424E-01 341 1.692E-05 1.600E+00 342 8.225E-06 7.812E-01 343 5.551E-06 5.284E-01 344 4.144E-06 3.949E-01 345 3.226E-06 3.077E-01 346 5.112E-07 5.213E-02
---

33535353533333333333333333333333333333	6.733E-066 6.733E-066 6.733E-066 6.733E-066 6.733E-066 6.733E-066 6.739E-066 6.739E-066 6.579E-066 6.579E-066 6.579E-066 6.579E-066 6.579E-07 7.040E-066 6.579E-066 6.5897E-066 6.59949E-066 6.5343E-066 6.737EE-066 6.737EE-0	6.686E-01 1.334E-01 1.334E-01 1.334E-01 1.334E-01 1.334E-01 1.334E-01 1.334E-01 1.334E-01 1.336E-01 1.346E-01 1.367E-02 2.378E-02 2.378E-02 2.378E-02 2.378E-02 2.378E-01 1.368E-01 1.368E-01 1.368E-01 1.369E-01 1.369E-01 1.369E-01 1.369E-01 1.369E-01 1.369E-01 1.369E-01 1.369E-01 1.369E-01 1.369E-01 1.369E-01 1.369E-01 1.369E-01 1.369E-01 1.369E-01 1.369E-01 1.369E-01 1.369E-01
--	--	---

```
445 3.128E-06 3.012E-01
446 3.634E-06 3.475E-01
447 3.106E-06 2.967E-01
448 2.701E-06 2.587E-01
449 2.994E-06 2.858E-01
450 2.628E-06 2.511E-01
451 2.334E-06 2.232E-01
```

ABOVE CONCENTRATIONS DO NOT INCLUDE THE FOLLOWING BACKGROUND CONCENTRATIONS:

0.000E+00 0.000E+00

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET, FM10 \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\gqpmace.dat Output File: g:\beest\GQ\gqpmaCE.OUT 11/14/96 07:00:20 Fage - 109

#### \*\*\*\* RECEPTOR TOTAL CANCER RISK AND EXCESS BURDEN \*\*\*

RECEPTOR	INHALE	DERMAL	SOIL	WATER	FLANTS	ANIMAL	MOTHER MILK	SUM	POPULATION	BURDEN
1	1.480E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.480E-07	0	0.000E+00
2	2.205E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	2.205E-07	0	0.000E+00
3	2.190E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.190E-07	. 0	0.000E+00
4	2.852E-07	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.852E-07	Q	0.000E+00
<b>5</b>	2.878E-07 2.615E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.878E-07	a	0.000E+00
7	2.308E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.615E-07	0	0.000E+00
··· ś	2.330E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.308E-07 2.330E-07	0	0.000E+00 0.000E+00
9	2.424E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.424E-07	ŏ	0.000E+00
10	3.065E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.065E-07	ă	0.000E+00
11	1.250E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.250E-07	ă	0.000E+00
12	5.438E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.438E-07	ă	0.000E+00
13	2.388E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.388E-07		0.000E+00
14	2.408E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.408E-07	Q	0.000E+00
15	2.346E-07	0.000E+00	0.000E+00	G.000E+C0	0.000E+00	G.000E+00	0.000E+00	2.346E-07		0.000E+00
16	2.664E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.664E-07		0.000E+00
17	1.385E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.385E-07		0.000E+00
18 19	2.097E-07 2.094E-07	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.097E-07		0.000E+00
20	2.934E-07	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.094E-07		0.000E+00
21	2.164E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.934E-07 2.164E-07		0.000E+00 0.000E+00
21 22	2.027E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.027E-07		0.000E+00
23 24	2.023E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.023E-07		0.000E+00
24	2.007E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.007E-07		0.000E+00
25	2.018E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		2.018E-07		0.000E+00
26	2.114E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		2.114E-07	ď	0.000E+00
25 26 27 28	2.154E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		2.154E-07		0.000E+00
28	2.298E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		2.298E-07		0.000E+00
29	2.921E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		2.921E-07		0.000E+00
30	3.098E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.098E-07		0.000E+00
31 32	3.246E-07 3.261E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		3.246E-07		0.000E+00
33	3.618E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		3.261E-07		0.000E+00
34	3.999E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	3.618E-07 3.999E-07	0	0.000E+00
35	4.263E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		4.263E-07		0.000E+00 0.000E+00
36	4.443E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		4.443E-07		0.000E+00
37	4.451E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		4.451E-07		0.000E+00
38	4.451E-07 4.312E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.312E-07	ď	0.000E+00
39	5.269E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		5.269E-07		0.000E+00
. 40	6.682E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		6.682E-07		0.00CE+00
41	9.218E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		9.218E-07		0.000E+00
42	1.408E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		1.408E-06		0.000E+60
43	1.187E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		1.187E-06	0	0.000E+00
44 45	1.066E-06 1.022E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		1.066E-06	0	0.000E+00
46	6.478E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00		1.022E-06		0.000E+00
47	9.587E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00		6.478E-07 9.587E-07		0.000E+00
48	1.238E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		1.238E-0	7 Q 5 0	0.000E+00 0.000E+00
49	1.465E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		1.465E-0		0.000E+00
50	1.573E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		1.573E-0		0.000E+00
51	8.359E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		8.359E-0		0.000E+00
52	5.559E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.559E-0	7 0	0.0002+00
53	4.036E-07	0.000E+00		0.000E+00	0.000E+00	0.000E+0		4.036E-0	7 0	0.000E+00
54	3.332E-07	0.000E+00		0.000E+00	0.000E+00	0.000E+0		3.332E-0		0.000E+00
55 56	3.555E-07	0.000E+00		0.000E+00	0.000E+00	0.000E+0		3.555E-0		0.000E+00
57	3.868E-07 4.027E-07	0.000E+00		0.000E+00	0.000E+00	0.000E+0		3.868E-0		0.000E+00
58	5.053E-07	0.000E+00 0.000E+00		0.000E+00 0.000E+00	0.000E+00	0.000E+0		4.027E-0		0.000E+00
59	6.397E-07	0.000E+00		0.000E+00	0.000E+00 0.000E+00	0.000E+0		5.053E-0 6.397E-0	7 0 7 0	0.0005+00
60	7.656E-07	0.000E+00		0.000E+00	0.000E+00	0.000E+0		7.656E-0	Ź	0.000E+00 0.000E+00
61	9.233E-07	0.000E+00		0.000E+00	0.000E+00			9.233E-0		0.000E+00
62	1.089E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0	0.000E+00	1.089E-0	6 0	0.000E+00
63	1.257E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0		1.257E-0	6 ă	0.000E+00
64	1.158E-06	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0		1.158E-0	6 0	0.000E+00
65	1.356E-06 1.675E-06 2.262E-06 2.415E-06	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0	0.000E+00	1.356E-0		0.000E+00
66	1.675E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0	0 0.000E+00	1.675E-0	6 0	0.000E+00
67	2.252K-06	0.000E+00	0.000E+00	0.000E+00		0.000E+0				0.000E+00
68 69	2.413E-06	0.000E+00		0.000E+00						0.000E+00
99	2.4105-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0	0 0.000E+00	2.418E-0	6 0	0.000E+00

70								2.363E-06	0 0.000E+00 0 0.000E+00
71 72					.000E+00			1.541E-06 1.130E-06	0 0.000E+00 0 0.000E+00
73					.000E+00			8.526E-07	0 0.000E+00
74					.000E+00			7.184E-07	0 0.000E+00
75					.000E+00			6.574E-07	0 0.000E+00
76	5.855E-07	0.000E+00 (	0.000E+00		.000E+00		0.000E+00	5.855E-07	0 0.000E+00
77	5.057E-07		0.000E+00	0.000E+00 0	.000E+00			5.057E-07	0 0.000E+00
78	4.403E-07				.000E+00			4.403E-07	0 0.000E+00
79	5.099E-07				.000E+00			5.099E-07	0 0.000E+00
80 81	5.525E-07				0.000E+00			5.525E-07	0 0.000E+00
82	6.444E-07 7.537E-07				0.00E+00			6.444E-07	0 0.000E+00 0 0.000E+00
83	8.289E-07				0.000E+00 0.000E+00			7.537E-07 8.289E-07	0 0.000E+00 0 0.000E+00
84	8.987E-07		0.000E+00		0.000E+00			8.987E-07	0 0.000E+00
85	9.562E-07		0.000E+00		0.000E+00			9.562E-07	0 0.000E+00
86	9.287E-07		0.000E+00	0.000E+00 (	0.000E+00			9.287E-07	0 0.000E+00
87	4.943E-07		0.000E+00	0.000E+00	0.000E+00			4.943E-07	0 0.000E+00
88	3.314E-07		0.000E+00		0.000E+00			3.314E-07	0 0.000E+00
89	2.424E-07		0.000E+00		0.000E+00			2.424E-07	0 0.000E+00
90	2.282E-07		0.000E+00		0.000E+00			2.282E-07	0 0.000E+00
91 92	1.072E-06 1.039E-06		0.000E+00 0.000E+00		0.000E+00			1.072E-06	0 0.000E+00 0 0.000E+00
93	1.000E-06		0.000E+00		0.000E+00 0.000E+00			1.039E-06 1.000E-06	0 0.000E+00 0 0.000E+00
94	9.608E-07		0.000E+00		0.000E+00			9.608E-07	0 0.000E+00
95	9.218E-07		0.000E+00		0.000E+00	0.000E+00	0.000E+00	9.218E-07	0 0.000E+00
96	8.856E-07		0.000E+00		0.000E+00	0.000E+00	0.000E+00	8.856E-07	0 0.000E+00
97	8.532E-07		0.000E+00		0.000E+00	0.000E+00	0.000E+00	8.532E-07	0 0.000E+00
98	8.020E-07		0.000E+00		0.000E+00	0.000E+00	0.000E+00	8.020E-07	0 0.000E+00
99	7.640E-07		0.000E+00		0.000E+00	0.000E+00	0.000E+00	7.640E-07	0 0.000E+00
100	7.163E-07		0.000E+00		0.000E+00	0.000E+00	0.000E+00	7.163E-07	0 0.000E+00 0 0.000E+00
101 102	6.813E-07 6.541E-07		0.000E+00		0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	6.813E-07 6.541E-07	0 0.000E+00 0 0.000E+00
103	1.224E-06		0.000E+00 0.000E+00		0.000E+00 0.000E+00	0.000E+00	0.000E+00	1.224E-06	0 0.000E+00
104	1.177E-06		0.000E+00		0.000E+00	0.000E+00	0.000E+00	1.177E-06	0 0.000E+00
105	1.121E-06		0.000E+00		0.000E+00	0.000E+00	0.000E+00	1.121E-06	0 0.000E+00
106	1.067E-06		0.000E+00		0.000E+00	0.000E+00	0.000E+00	1.067E-06	0 0.000E+00
107	1.016E-06	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	1.016E-06	0 0.000E+00
108	9.677E-07	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	9.677E-07	0 0.000E+00
109	9.183E-07	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	9.183E-07	0 0.000E+00
110	8.629E-07	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	8.629E-07	0 0.000E+00
111	8.060E-07	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	8.060E-07	0 0.000E+00 0 0.000E+00
112 113	7.560E-07 7.093E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00		0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	7.560E-07 7.093E-07	0 0.000E+00 0 0.000E+00
114	6.767E-07	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	6.767E-07	0 0.000E+00
115	1.428E-06	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	1.428E-06	0 0.000E+00
116	1.356E-06	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	1.356E-06	0 0.000E+00
117	1.270E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.270E-06	0 0.000E+00
118	1.194E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.194E-06	0 0.000E+00
119	1.135E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.135E-06	0 0.000E+00
120	1.054E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.054E-06	0 0.000E+00
121 122	9.806E-07 9.166E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	9.806E-07 9.166E-07	0 0.000E+00 0 0.000E+00
123	8.528E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	8.528E-07	0 0.000E+00
124	8.130E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.130E-07	0 0.000E+00
125	7.549E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+08	6.00 <del>0E+</del> 00	0.000 <del>E+0</del> 0	7.549E-07	0 0.00 <del>0E+</del> 00
126	7.018E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.018E-07	0 0.000E+00
127	1.716E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.716E-06	0 0.000E+00
128	1.605E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.605E-06	0 0.000E+00
129 130	1.464E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.464E-06 1.370E-06	0 0.000E+00 0 0.000E+00
131	1.370E-06 1.258E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.258E-06	0 0.000E+00
132	1.155E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00	1.155E-06	0 0.000E+00
133	1.044E-06	0.000E+00	0.000E+00		0.000E+00		0.000E+00	1.044E-06	0 0.000E+00
134	9.812E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.812E-07	0 0.000E+00
135	9.137E-07		0.000E+00	0.000E+00	0.000E+00		0.000E+00	9.137E-07	0 0.000E+00
136	8.518E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00	8.518E-07	0.000E+00
137	7.899E-07		0.000E+00	0.000E+00	0.000E+00		0.000E+00	7.899E-07	0 0.000E+00 0 0.000E+00
138 139	7.338E-07 2.194E-06		0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00		0.000E+00 0.000E+00	7.338E-07 2.194E-06	0 0.000E+00 0 0.000E+00
140	2.023E-06		0.000E+00		0.000E+00		0.000E+00	2.023E-06	0 0.000E+00
141	1.745E-06		0.000E+00		0.000E+00		0.000E+00	1.745E-06	0 0.000E+00
142	1.514E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.514E-06	0 0.000E+00
143	1.353E-06		0.000E+00		0.000E+00			1.353E-06	0 0.000E+00
144	1.224E-06		0.000E+00		0.000E+00		0.000E+00	1.224E-06	0 0.000E+00
145	1.119E-06		0.000E+00		0.000E+00			1.119E-06 1.036E-06	0 0.000E+00 0 0.000E+00
146 147	1.036E-06 9.611E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00		0.000E+00			9.611E-07	0 0.000E+00
148	8.918E-07		0.000E+00		0.000E+00			8.918E-07	0 0.000E+00
149	8.297E-07	0.000E+00	0.000E+00		0.000E+00			8.297E-07	0 0.000E+00
150	7.688E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.688E-07	0 0.000E+00
151	1.183E-06	0.000E+00	0.000E+00		0.000E+00		0.000E+00	1.183E-06	0 0.000E+00
152	1.097E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00			0 0.000E+00 0 0.000E+00
153 154	1.021E-06 9.371E-07	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00				
155	8.851E-07	7 0.000E+00	0.000E+00	0.000E+00	0.000E+00				0 0.000E+00
156	8.114E-07				0.000E+00				0 0.000E+00
157	6.163E-07				0.000E+0				0 0.000E+00
158	6.298E-07	7 0.000E+00	0.000E+00	0.000E+00	0.000E+0	0.000E+00	0.000E+00	6.298E-07	0 0.000E+00
159	6.024E-0	7 0.000E+00	0.000E+00	0.000E+00	0.000E+0	0.000E+00	0.000E+00	6.024E-07	0 0.000E+00
160	5.843E-07				0.000E+0			5.843E-07	0 0.000E+00
161	5.552E-01 5.288E-01				0.000E+0				0 0.000E+00
162 163	5.088E-0				0.000E+0				0 0.000E+00 0 0.000E+00
164	4.750E-0				0.000E+0				
165	4.294E-0	7 0.000E+00			0.000E+0				
166	3.801E-0				0.000E+0				

167	3.399E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.399E-07	0 0.000E+00
168 169	7.538E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.538E-07	0 0.000E+00
170	7.525E-07 7.192E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.525E-07	0 0.000E+00
171	6.759E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.192E-07	0 0.000E+00
172	6.365E-07	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	6.759E-07	0 0.000E+00
173	5.957E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	6.365E-07 5.957E-07	0 0.000E+00
174	5.338E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.338E-07	0 0.000E+00 0 0.000E+00
175 176	4.675E-07 4.037E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.675E-07	0 0.000E+00
177	3.576E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.037E-07	0 0.000E+00
178	1.023E-06	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	3.576E-07	0 0.000E+00
179	9.765E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	1.023E-06 9.765E-07	0 0.000E+00 0 0.000E+00
180	9.148E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.148E-07	0 0.000E+00 0 0.000E+00
181 182	8.388E-07 7.797E-07	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.388E-07	0 0.000E+00
183	6.830E-07	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.797E-07	0 0.000E+00
184	6.108E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	6.830E-07	0 0.000E+00
185	5.113E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	6.108E-07 5.113E-07	0 0.000E+00 0 0.000E+00
186	4.331E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.331E-07	0 0.000E+00 0 0.000E+00
187 188	3.790E-07 1.432E-06	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.790E-07	0 0.000E+00
189	1.358E-06	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.432E-06	0 0.000E+00
190	1.227E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.358E-06	0 0.000E+00
191	1.073E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.227E-06 1.073E-06	0 0.000E+00 0 0.000E+00
192 193	9.183E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.183E-07	0 0.000E+00
194	7.791E-07 6.656E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.791E-07	0 0.000E+00
195	5.501E-07	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.656E-07	0 0.000E+00
196	4.773E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	5.501E-07 4.773E-07	0 0.000E+00
197	3.985E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.985E-07	0 0.000E+00 0 0.000E+00
198	2.308E-06	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.308E-06	0 0.000E+00 0 0.000E+00
199 200	2.252E-06 1.882E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.252E-06	0 0.000E+00
201	1.078E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	1.882E-06	0 0.000E+00
202	7.411E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.078E-06 7.411E-07	0 0.000E+00
203	6.121E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.121E-07	0 0.000E+00 0 0.000E+00
204 205	4.926E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.926E-07	0 0.000E+00
206	3.993E-07 3.847E-07	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.993E-07	0 0.000E+00
207	3.675E-07	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	3.847E-07	0 0.000E+00
208	3.684E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.675E-07 3.684E-08	0 0.000E+00 0 0.000E+00
209	4.218E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.218E-08	0 0.000E+00 0 0.000E+00
210	4.954E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.954E-08	0 0.000E+00
211 212	5.838E-08 6.996E-08	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.838E-08	0 0.000E+00
213	8.734E-08	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	6.996E-08	0 0.000E+00
214	1.112E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	8.734E-08	0 0.000E+00
215	1.431E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.112E-07 1.431E-07	0 0.000E+00 0 0.000E+00
216	1.706E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.706E-07	0 0.000E+00 0 0.000E+00
217 218	1.965E-07 2.103E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.965E-07	0 0.000E+00
219	2.171E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.103E-07	0 0.000E+00
220	2.037E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	2.171E-07	0 0.000E+00
221	1.871E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	2.037E-07 1.871E-07	0 0.000E+00 0 0.000E+00
222 223	1.732E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.732E-07	0 0.000E+00
224	1.723E-07 1.723E-07	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.723E-07	0 0.000E+00
225	1.689E-07	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	1.723E-07	0 0.000E+00
226	1.601E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.689E-07 1.601E-07	0 0.000E+00 0 0.000E+00
227	3.627E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.627E-08	0 0.000E+00 0 0.000E+00
228	4.278E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.278E-08	0 0.000E+00
229 230	5.026E-08 6.002E-08	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.026E-08	0 0.000E+00
231	7.258E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	6.002E-08	0 0.000E+00
232	9.022E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	7.258E-08 9.022E-08	0 0.000E+00 0 0.000E+00
233	1.175E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.175E-07	0 0.000E+00 0 0.000E+00
234 235	1.555E-07 1.959E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.555E-07	0 0.000E+00
235 236	2.333E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	1.959E-07	0 0.000E+00
237	2.558E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.333E-07 2.558E-07	0 0.000E+00 0 0.000E+00
238	2.603E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.603E-07	0 0.000E+00 0 0.000E+00
239 240	2.419E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.419E-07	0 0.000E+00
240	2.224E-07 2.139E-07	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.224E-07	0 0.000E+00
242	2.130E-07	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	2.139E-07	0 0.000E+00
243	2.050E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	2.130E-07	0 0.000E+00
244	1.916E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	2.050E-07 1.916E-07	0 0.000E+00 0 0.000E+00
245 246	1.713E-07	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.713E-07	0 0.000E+00
247	3.348E-08 4.120E-08	0.000E+00 0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.348 <b>E-</b> 08	0 0.000E+00
248	5.003E-08	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	4.120E-08	0 0.000E+00
249	6.095E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	5.003E-08 6.095E-08	0 0.000E+00 0 0.000E+00
250	7.503E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.503E-08	0 0.000E+00 0 0.000E+00
251 252	9.430E-08 1.234E-07	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.430E-08	0 0.000E+00
253	1.700E-07	0.000E+00 0.000E+00		0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.234E-07	0 0.000E+00
254	2.272E-07	0.000E+00		0.000E+00	0.000E+00 0.000E+00		0.000E+00 0.000E+00	1.700E-07	0 0.000E+00
255	2.837E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00	2.272E-07 2.837E-07	0 0.000E+00 0 0.000E+00
256 257	3.198E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.198E-07	0 0.000E+00 0 0.000E+00
257 258	3.204E-07 3.006E-07	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.204E-07	0 0.000E+00
259	2.801E-07	0.000E+00 0.000E+00		0.000E+00	0.000E+00		0.000E+00	3.006E-07	0 0.000E+00
260	2.745E-07	0.000E+00		0.000E+00 0.000E+00	0.000E+00 0.000E+00		0.000E+00	2.801E-07	0 0.000E+00
261	2.590E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	2.745E-07 2.590E-07	0 0.000E+00 0 0.000E+00
262 263	2.356E-07 2.088E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.356E-07	0 0.000E+00 0 0.000E+00
200	2.0005-0/	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00			0 0.000E+00
i									

264 265 266	1.764E-07 3.377E-08 3.914E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00	0.000E+00	1.764E-07 3.377E-08 3.914E-08	0 0.000E+00 0 0.000E+00 0 0.000E+00
267 268	4.791E-08 5.964E-08	0.000E+00 0.000E+00	0.000E+00 (	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	4.791E-08 5.964E-08	0 0.000E+00 0 0.000E+00
269 270 271	7.590E-08 9.760E-08 1.311E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	7.590E-08 9.760E-08	0 0.000E+00 0 0.000E+00
272 273	1.847E-07 2.688E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00	1.311E-07 1.847E-07 2.688E-07	0 0.000E+00 0 0.000E+00 0 0.000E+00
274 275	3.647E-07 4.192E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00		3.647E-07 4.192E-07	0 0.000E+00 0 0.000E+00
276 277	4.169E-07 3.939E-07		0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.169E-07 3.939E-07	0 0.000E+00 0 0.000E+00
278 279	3.705E-07 3.499E-07	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.705E-07 3.499E-07	0 0.000E+00 0 0.000E+00
280 281 282	3.050E-07 2.606E-07 2.169E-07	0.000E+00 0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	3.050E-07 2.606E-07 2.169E-07	0 0.000E+00 0 0.000E+00 0 0.000E+00
283 284	1.728E-07 3.448E-08	0.000E+00 0.000E+00	0.000E+00		0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.728E-07 3.448E-08	0 0.000E+00 0 0.000E+00 0 0.000E+00
285 286	4.025E-08 4.757E-08	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.025E-08 4.757E-08	0 0.000E+00 0 0.000E+00
287 288	5.871E-08 7.432E-08	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00		5.871E-08 7.432E-08	0 0.000E+00 0 0.000E+00
289 290 291	9.847E-08 1.364E-07 2.025E-07	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	9.847E-08 1.364E-07	0 0.000E+00 0 0.000E+00 0 0.000E+00
292 293	3.540E-07 4.750E-07	0.000E+00 0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	2.025E-07 3.540E-07 4.750E-07	0 0.000E+00 0 0.000E+00 0 0.000E+00
294 295	2.761E-07 2.124E-07	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.761E-07 2.124E-07	0 0.000E+00 0 0.000E+00
296 297	1.588E-07 3.130E-08	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.588E-07 3.130E-08	0 0.000E+00 0 0.000E+00
298 299	3.790E-08 4.628E-08	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.790E-08 4.628E-08	0 0.000E+00 0 0.000E+00
300 301 302	5.621E-08 7.206E-08 9.755E-08	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	5.621E-08 7.206E-08 9.755E-08	0 0.000E+00 0 0.000E+00 0 0.000E+00
303 304	1.400E-07 2.187E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.400E-07 2.187E-07	0 0.000E+00 0 0.000E+00
305 306	3.962E-07 2.767E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.962E-07 2.767E-07	0 0.000E+00 0 0.000E+00
307 308	1.977E-07 1.464E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.977E-07 1.464E-07	0 0.000E+00 0 0.000E+00
309 310 311	2.598E-08 3.199E-08 4.022E-08	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	2.598E-08 3.199E-08 4.022E-08	0 0.000E+00 0 0.000E+00 0 0.000E+00
312 313	5.128E-08 6.620E-08	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	5.128E-08 6.620E-08	0 0.000E+00 0 0.000E+00 0 0.000E+00
314 315	9.074E-08 1.331E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	9.074E-08 1.331E-07	0 0.000E+00 0 0.000E+00
316 317	2.193E-07 4.708E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.193E-07 4.708E-07	0 0.000E+00 0 0.000E+00
318 319 320	2.530E-07 1.728E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.530E-07 1.728E-07	0 0.000E+00 0 0.000E+00
321 322	1.291E-07 2.255E-08 2.718E-08	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	1.291E-07 2.255E-08 2.718E-08	0 0.000E+00 0 0.000E+00 0 0.000E+00
323 324	3.243E-08 4.055E-08	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	3.243E-08 4.055E-08	0 0.000E+00 0 0.000E+00
325 326	5.450E-08 7.662E-08	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	5.450E-08 7.662E-08	0 0.000E+00 0 0.000E+00
327 328	1.137E-07 1.957E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	1.137E-07 1.957E-07	0 0.000E+00 0 0.000E+00
329 330 331	4.742E-07 2.167E-07 1.580E-07	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00 0.000E+00	4.742E-07 2.167E-07 1.580E-07	0 0.000E+00 0 0.000E+00 0 0.000E+00
332 333	1.250E-07 2.049E-08	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	1.250E-07 2.049E-08	0 0.000E+00 0 0.000E+00
334 335	2.365E-08 2.817E-08	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.365E-08 2.817E-08	0 0.000E+00 0 0.000E+00
336 337	3.477E-08 4.471E-08	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	3.477E-08 4.471E-08	0 0.000E+00 0 0.000E+00
338 339 340	5.957E-08 9.113E-08 1.616E-07	0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00	0.000E+00		0 0.000E+00 0 0.000E+00 0 0.000E+00
341 342	5.852E-07 2.853E-07	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	5.852E-07	0 0.000E+00 0 0.000E+00
343 344	1.929E-07 1.442E-07	0.000E+00		0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.929E-07 1.442E-07	0 0.000E+00 0 0.000E+00
345 346	1.123E-07 1.906E-08	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	1.906E-08	0 0.000E+00 0 0.000E+00
347 348 349	2.112E-08 2.446E-08 2.926E-08	0.000E+00	0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.446E-08	0 0.000E+00 0 0.000E+00 0 0.000E+00
350 351	3.665E-08 4.875E-08	0.000E+00	0.000E+00	0.000E+00 0.000E+00		0.000E+00	0.000E+00	3.665E-08	0 0.000E+00 0 0.000E+00
352 353	7.248E-08 1.215E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	7.248E-08 1.215E-07	0 0.000E+00 0 0.000E+00
354 355	4.064E-07 2.277E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.277E-07	0 0.000E+00 0 0.000E+00
356 357 358	1.567E-07 1.190E-07 9.635E-08	7 0.000E+00	0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+0	0 0.000E+00	0.000E+00	1.190E-07	0 0.000E+00 0 0.000E+00 0 0.000E+00
359 360	1.680E-08 1.948E-08	3 0.000E+00	0.000E+00	0.000E+00	0.000E+0	0 0.000E+00	0.000E+00	1.680E-08	0 0.000E+00 0 0.000E+00

361	2.174E-08 0	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.174E-08	0 0.000E+00
362		0.000E+00			0.000E+00	0.000E+00		2.604E-08	0 0.000E+00
363		0.000E+00			0.000E+00	0.000E+00		3.227E-08	0 0.000E+00
364		0.000E+00			0.000E+00	0.000E+00		4.165E-08	0 0.000E+00
365		0.000E+00			0.000E+00	0.000E+00		5.612E-08	0 0.000E+00
366		0.000E+00			0.000E+00	0.000E+00		8.793E-08	0 0.000E+00
367		0.000E+00		0.000E+00	0.000E+00	0.000E+00		1.961E-07	0 0.000E+00
368		0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.672E-07	0 0.000E+00
369		0.000E+00		0.000E+00	0.000E+00	0.000E+00		5.109E-07	0 0.000E+00
370		0.000E+00		0.000E+00	0.000E+00	0.000E+00		2.997E-07	0 0.000E+00
371		0.000E+00		0.000E+00	0.000E+00	0.000E+00		1.903E-07	0 0.000E+00
372		0.000E+00		0.000E+00	0.000E+00	0.000E+00		1.336E-07	0 0.000E+00
373		0.000E+00		0.000E+00	0.000E+00	0.000E+00		1.010E-07	0 0.000E+00
374		0.000E+00		0.000E+00	0.000E+00	0.000E+00		8.171E-08	0 0.000E+00
375		0.000E+00		0.000E+00	0.000E+00	0.000E+00		1.601E-08	0 0.000E+00
376		0.000E+00		0.000E+00	0.000E+00	0.000E+00		1.859E-08	0 0.000E+00
377		0.000E+00		0.000E+00	0.000E+00	0.000E+00		2.189E-08	0 0.000E+00
378		0.000E+00		0.000E+00	0.000E+00	0.000E+00		2.480E-08	0 0.000E+00
379		0.000E+00		0.000E+00	0.000E+00	0.000E+00		3.098E-08	0 0.000E+00
380		0.000E+00		0.000E+00	0.000E+00	0.000E+00		3.947E-08	0 0.000E+00
381		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.295E-08	0 0.000E+00
382		0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.618E-08	0 0.000E+00
383		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.477E-07	0 0.000E+00
384		0.000E+00							0 0.000E+00
385		0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	2.981E-07	
				0.000E+00		0.000E+00	0.000E+00	3.769E-07	
386		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.143E-07	
387		0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.904E-07	0 0.000E+00
388		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.222E-07	0 0.000E+00
389		0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.377E-07	0 0.000E+00
390		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.682E-07	0 0.000E+00
391	1.247E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.247E-07	0 0.000E+00
392		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.542E-08	0 0.000E+00
393		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.695E-08	0 0.000E+00
394	1.594E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.594E-08	0 0.000E+00
395	1.913E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.913E-08	0 0.000E+00
396	2.331E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.331E-08	0 0.000E+00
397	2.664E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.664E-08	0 0.000E+00
398	3.029E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.029E-08	0 0.000E+00
399	3.553E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.553E-08	0 0.000E+00
400	4.511E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.511E-08	0 0.000E+00
401	6.667E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.667E-08	0 0.000E+00
402	1.189E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.189E-07	0 0.000E+00
403	1.938E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.938E-07	0 0.000E+00
404	2.522E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.522E-07	0 0.000E+00
405	2.802E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.802E-07	0 0.000E+00
406	2.707E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.707E-07	0 0.000E+00
407	2.348E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.348E-07	0 0.000E+00
408	1.878E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.878E-07	0 0.000E+00
409	1.469E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.469E-07	0 0.000E+00
410	1.166E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.166E-07	0 0.000E+00
411	9.324E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.324E-08	0 0.000E+00
412	7.434E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.434E-08	0 0.000E+00
413	2.657E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		2.657E-08	0 0.000E+00
414	2.301E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		2.301E-08	0 0.000E+00
415	2.147E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		2.147E-08	0 0.000E+00
416	3.098E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		3.098E-08	0 0.000E+00
417	2.836E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		2.836E-08	0 0.000E+00
418	2.938E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		2.938E-08	0 0.000E+00
419	4.003E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		4.003E-08	0 0.000E+00
420	4.123E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		4.123E-08	0 0.000E+00
421	3.918E-08		0.000E+00	0.000E+00	0.000E+00			3.918E-08	0 0.000E+00
422	6.186E-08	0.000E+00							0 0.000E+00
		0.000E+00		0.000E+00	0.000E+00			6.186E-08	
423 424	5.705E-08 5.367E-08	0.000E+00 0.000E+00		0.000E+00 0.000E+00	0.000E+00 0.000E+00			5.705E-08 5.367E-08	0 0.000E+00 0 0.000E+00
		0.000E+00		0.000E+00					0 0.000E+00
425 426	9.984E-08 8.729E-08			0.000E+00	0.000E+00			9.984E-08	0 0.000E+00
427	7.851E-08	0.000E+00 0.000E+00		0.000E+00				8.729E-08 7.851E-08	0 0.000E+00
428	1.485E-07	0.000E+00		0.000E+00				1.485E-07	0 0.000E+00
429	1.218E-07							1.218E-07	0 0.000E+00
430	1.027E-07	0.000E+00 0.000E+00		0.000E+00 0.000E+00				1.027E-07	0 0.000E+00
431	1.854E-07	0.000E+00		0.000E+00				1.854E-07	0 0.000E+00
432	1.433E-07	0.000E+00		0.000E+00				1.433E-07	0 0.000E+00
433	1.161E-07	0.000E+00		0.000E+00		0.000E+00		1.161E-07	0 0.000E+00
434	2.030E-07	0.000E+00							0 0.000E+00
435	1.561E-07	0.000E+00		0.000E+00 0.000E+00				2.030E-07 1.561E-07	0 0.000E+00
435	1.246E-07	0.000E+00		0.000E+00		0.000E+00		1.246E-07	0 0.000E+00
437	2.034E-07	0.000E+00		0.000E+00				2.034E-07	0 0.000E+00
437	1.578E-07	0.000E+00							0 0.000E+00
439				0.000E+00				1.578E-07	
	1.263E-07 1.823E-07	0.000E+00		0.000E+00					
440		0.000E+00		0.000E+00					
441	1.484E-07	0.000E+00		0.000E+00					0 0.000E+00
442	1.228E-07	0.000E+00		0.000E+00					0 0.000 +00
443	1.546E-07	0.000E+00						1.546E-07	0 0.000E+00
444	1.312E-07	0.000E+00							0 0.000E+00
445	1.100E-07	0.000E+0							0 0.000E+00
446	1.269E-07	0.000E+0							0 0.000E+00
447	1.083E-07	0.000E+00							0 0.000E+00
448	9.445E-08	0.000E+0							0 0.000E+00
449	1.043E-07	0.000E+0							0 0.000E+00
450	9.166E-08								0 0.000E+00
451	8.147E-08	0.000E+0	0 0.000E+00	0.000E+00	0.000E+0	0 0.000E+0	0 0.000E+00	8.147E-08	0 0.000E+00

RECEPTOR # 69 HAS MAXIMUM PEAK RISK OF 2.418E-06 PEAK RECEPTOR LOCATED AT (X, Y) = 391247.000 3870518.000 RECEPTOR POPULATION = 0

#### RECEPTOR BURDEN - 0.000E+00

TOTAL CANCER EXCESS BURDEN FROM ALL RECEPTORS = 0.000E+00 BURDEN COMPUTED WITH ZONE OF IMPACT RISK LEVEL = 1.000E-07

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET. FM10 \* OUTPUT OF AMI/SECAPCD ACE2588 MODEL VERS. 93288 \*
Input File: g:\beest\GQ\gqpmace.dat Output File: g:\beest\GQ\GqpmaCE.OUT 11/14/96 07:00:20 Page - 119

# \*\*\* 70-YEAR LIFETIME CANCER RISK BY SOURCE FOR PEAK RECEPTOR # 69 \*\*\*

SOURCE	INHALZ	DERMAL	SOIL	WATER	PLANTS	ANIMAL	MOTHER MILK	SUM
_			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.160E-10
1	9.160E-10	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.426E-09
2	1.426E-09	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.825E-09
3	6.825E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.202E-08
4	1.202E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.513E-09
5 6	8.513E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.508E-09
6	8.508E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.007E-09
7	3.007E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.060E-09
8	2.060E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.380E-09
9	1.380E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.104E-10
10	7.104E-10	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.007E-10
11	8.007E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.939E-10
12	2.939E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0_000E+00	1.310E-08
13	1.310E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.017E-08
14	2.017E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.620E-08
15	9.620E-08	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.663E-07
16	1.663E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.115E-07
17	1.115E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.118E-07
18	1.118E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.421E-09
19	6.421E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.136E-09
- 20	9.136E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		4.375E-08
21	4.375E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		7.571E-08
22	7.571E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		5.059E-08
23	5.059E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		4.902E-08
24	4.902E-08	0.000E+00	0.000E+00		0.000E+00	0.000E+00		4.787E-08
25	4.787E-08	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00		5.427E-08
26	5.427E-08	0.000E+00	0.000E+00		0.000E+00	0.000E+00		2.089E-07
27	2.089E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		3.978E-07
28	3.978E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		5.332E-07
29	5.332E-07	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00		3.810E-08
30	3.810E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0		3.568E-09
31	3.568E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0		1.347E-08
32	1.347E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0		2.194E-08
33	2.194E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0		2.503E-08
34	2.503E-08	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+0	0.000E+00	2.512E-09
35	2.512E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0	0.000E+00	1.589E-08
36	1.589E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0		5.912E-08
37.	5.912E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0		8.734E-08
38	8.734E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0		9.409E-08
39	9.409E-08	0.000E+00		0.000E+00	0.000E+00	0.000E+0		1.121E-08
40	1.121E-08	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+0		0.000E+00
41	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+0		0.000E+00
42	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0		0.000E+00
43	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+0		0.000E+00
44	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0		3.295E-09
45	3.295E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0		0.000E+00
46	0.000E+00	0.000E+00	0.000E+00	0.0005700	·			
SUM	2.418E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0	0 0.000E+00	2.418E-06

RECEPTOR RISK OF 2.418E-06 EXCEEDS SIGNIFICANT RISK LEVEL OF 1.000E-06

RECEPTOR RISK OF 2.418E-06 EXCEEDS IMPACT ZONE RISK LEVEL OF 1.000E-07 RECEPTOR BURDEN = 0.000E+00

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, PM10 \* QUIPUT OF AMI/SECAPCD ACE2588 MODEL VERS. 93288 \*

Output File: g:\beest\GQ\gqmace.dat Output File: g:\beest\GQ\GqmaCE.OUT 11/14/96 07:00:20 Fage - 121

# \*\*\* 70-YEAR LIFETIME CANCER RISK BY POLLUTANT FOR PEAK RECEPTOR # 69 \*\*\*

	INHALE	DERMAL	SOIL	WATER	PLANTS	ANIMAL	MOTHER MILK	SUM
ACETA AS BENZE Be Cd Cr BCEO F5 N1 PAH Se	0.000E+00 1.798E-06 0.000E+00 6.014E-08 8.494E-08 4.635E-07 0.000E+00 7.489E-09 3.948E-09 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 1.798E-06 0.000E+00 6.014E-08 8.494E-08 4.635E-07 0.000E+00 7.489E-09 3.948E-09 0.000E+00
etim.	2 A18F-06	0 000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00	2.418E-06

RECEPTOR RISK OF 2.418E-06 EXCEEDS SIGNIFICANT RISK LEVEL OF 1.000E-06

RECEPTOR RISK OF 2.418E-06 EXCEEDS IMPACT ZONE RISK LEVEL OF 1.000E-07 RECEPTOR BURDEN = 0.000E+00

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET, FM10 \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\gqpmace.dat Output File: g:\beest\GQ\gqpmaCE.OUT 11/14/96 07:00:20 Fage - 122

# 70-YEAR LIFETIME DOSE (mg/kg/d) BY POLLUTANT FOR PEAK RECEPTOR # 69 \*\*\*

POLLUTANT	INHALE	DERMAL.	SOIL	WATER	PLANTS	ANIMAL	MOTHER MILK	SUM
ACETA AS BENZE BO Cd Cr HCHO Fb Ni FAH So	0.000E+00 1.557E-07 0.000E+00 7.160E-09 5.778E-09 9.459E-10 0.000E+00 2.675E-08 4.339E-09 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 1.557E-07 0.000E+00 7.160E-09 5.778E-09 9.459E-10 0.000E+00 2.675E-08 4.339E-09 0.000E+00

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, FM10 \* OUTFUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\gqpmace.dat Output File: g:\beest\GQ\gqpmacE.OUT 11/14/96 07:00:20 Fage - 123

# 44-YEAR LIFETIME CANCER RISK BY SOURCE FOR PEAK RECEPTOR # 69 \*\*\*

SOURCE	INHALE	DERMAL	SOIL	WATER	PLANTS	ANIMAL	MOTHER MILK	SUM
1	5.758E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.758E-10
2	8.961E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
3	4.290E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.961E-10
4	7.553E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.290E-09
5	5.351E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.553E-09
6	5.348E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.351E-09 5.348E-09
7	1.890E-09	0.000E+00	G.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
8	1.295E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.890E-09 1.295E-09
9	8.675E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.675E-10
10	4.465E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.465E-10
11	5.033E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.033E-10
12	1.848E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
13	8.232E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.848E-10 8.232E-09
14	1.268E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.268E-08
15	6.047E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
16	1.04 <i>5</i> E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.047E-08
17	7.010E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.045E-07 7.010E-08
18	7.028E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.028E-08
19	4.036E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
20	5.743E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.036E-09
21	2.750E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		5.743E-09
22	4.759E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.750E-08
21 22 23	3.180E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.759E-08
24	3.081E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.180E-08
25	3.009E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00	3.081E-08
26	3.411E-08	0.000E+00	0.000E+00	G.000E+00	0.000E+00	0.000E+00	0.000E+00	3.009E-08
27	1.313E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.411E-08
28	2.501E-07	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00	1.313E-07
29	3.352E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00		2.501E-07
30	2.395E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.352E-07
31	2.243E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.395E-08
32	8.466E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.243E-09
33	1.379E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.466E-09
34	1.574E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.379E-08
35	1.579E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.574E-08
36	9.986E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.579E-09
37	3.716E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.986E-09
38	5.490E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.716E-08
39	5.914E-08	0.000E+00	0.000E+00	G.000E+00	0.000E+00	0.000E+00	0.000E+00	5.490E-08
40	7.046E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.914E-08
41	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.046E-09
42	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00
43	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
44	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
45	2.071E-09	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
46	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.071E-09
-				**************************************	V.UUUETUU	0.000E+00	0.000E+00	0.000E+00
SUM	1.520E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.520E-06

RECEPTOR RISK OF 1.520E-06 EXCEEDS SIGNIFICANT RISK LEVEL OF 1.000E-06

RECEPTOR RISK OF 1.520E-06 EXCEEDS IMPACT ZONE RISK LEVEL OF 1.000E-07

44-YEAR LIFETIME RISK OF 1.520E-06 IS LOWER THAN 70-YEAR LIFETIME RISK OF 2.418E-06

GOLDEN QUEEN MINING - SOLZDAD MIN FROJECT - ALL RECEPTORS, 1991 MET. FM10 \* OUTPUT OF AMI/SECAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\GQpmace.dat Output File: g:\beest\GQ\GQpmaCE.OUT 11/14/96 07:00:20 Fage - 125

#### \*\*\* 44-YEAR LIFETIME CANCER RISK BY POLLUTANT FOR PEAK RECEPTOR # 69 \*\*\*

POLLUTANT	INHALE	DERMAL	SOIL	WATER	PLANTS	ANIMAL	MOTHER MILK	SUM
ACETA AS BENZE BO Cd Cr HCHO PD N1 PAH	0.000E+00 1.130E-06 0.000E+00 3.780E-08 5.339E-08 2.913E-07 0.000E+00 4.708E-09 2.482E-09 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.00E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 1.130E-00 0.000E+00 3.780E-08 5.339E-08 2.913E-07 0.000E+00 4.708E-09 2.482E-09 0.000E+00 0.000E+00
SUM	1.520E-06	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00	1.520E-06

RECEPTOR RISK OF 1.520E-06 EXCEEDS SIGNIFICANT RISK LEVEL OF 1.000E-06

RECEPTOR RISK OF 1.520E-06 EXCEEDS IMPACT ZONE RISK LEVEL OF 1.000E-07

44-YEAR LIFETIME RISK OF 1.520E-06 IS LOWER THAN 70-YEAR LIFETIME RISK OF 2.418E-06

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET. FM10 \* OUTFUT OF AMI/SBCAFCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\\gqmace.dat Output File: g:\beest\GQ\\GQmaCE.OUT 11/14/96 07:00:20 Page - 126

## 44-YEAR LIFETIME DOSE (mg/kg/d) BY POLLUTANT FOR PEAK RECEPTOR # 69

POLLUTANT	INHALE	DERMAL	SOIL	WATER	Plants	ANIMAL	MOTHER MILK	SUM
ACETA AS BENZE Be Cd Cd Cr ECHO Fb N1 PAH	0.000E+00 1.557E-07 0.000E+00 7.160E-09 5.778E-09 9.459E-10 0.000E+00 2.673E-08 4.339E-09 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 1.557E-07 0.000E+00 7.160E-09 5.778E-09 9.459E-10 0.000E+00 2.675E-08 4.339E-09 0.000E+00
Se	0.000E+00	0.000E+00	0.0C0E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002700

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET. FM10 \* GUIFUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \*
Input File: g:\beest\GQ\gqmace.dat Output File: g:\beest\GQ\GQmaCE.GUI 11/14/96 07:00:20 Fage - 127

#### \*\*\* MAXIMUM ACUTE HAZARD INDEX BY POLLUTANT \*\*\*

POLLUTANT	PEAK CONC (ug/m3)	BACKGR (ug/m3)	TOTAL (ug/m3)	AFL (ug/m3)	HAZARD INDEX	RECEPTOR
XXTEM Se HI ES ECM ECEO YCSOT	0.000E+00 5.891E-03 0.000E+00 4.528E+01 0.000E+00 4.036E-03 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 5.891E-03 0.000E+00 4.528E+01 0.000E+00 4.036E-03 0.000E+00	2.500E+00 1.000E+01 3.700E+02 3.300E+03 3.000E+01 1.000E+00 2.000E+00	0.000E+00 4.036E-03 0.000E+00	0 30 0 34 0 30 0

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET. FM10 \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\gqmace.dat Output File: g:\beest\GQ\GQmaCE.OUT 11/14/96 07:00:20 Page - 128

## \*\*\* RECEPTOR ACUTE HAZARD INDICES BY TOXICOLOGICAL ENDPOINTS \*\*\*

### FROM ALL SOURCES AND POLLUTANTS

RECEPTOR CV CNS IMMUN KIDN LIVER REFRO RESP EYE

1 0.000E+00 2.180E-03 7.363E-04 0.000E+00 0.000E+00 0.000E+00 1.076E-04 0.000E+00
2 0.000E+00 1.391E-03 5.499E-04 0.000E+00 0.000E+00 0.000E+00 8.028E-05 0.000E+00

3	0.000E+00	1.369E-03	5.608E-04	0.000E+00	0.000E+00	0.000E+00	8.186E-05	0.000E+00
4	0.000E+00	2.547E-03	9.492E-04	0.000E+00	0.000E+00	0.000E+00	1.385E-04	0.000E+00
5	0.000E+00	2.450E-03	9.185E-04	0.000E+00	0.000E+00	0.000E+00	1.340E-04	0.000E+00
6	0.000E+00	2.311E-03	8.954E-04	0.000E+00	0.000E+00	0.000E+00	1.307E-04	0.000E+00
7	0.000E+00	1.281E-03	6.989E-04	0.000E+00	0.000E+00	0.000E+00	1.018E-04	0.000E+00
8	0.000E+00	1.315E-03	6.763E-04	0.000E+00	0.000E+00	0.000E+00	9.873E-05	0.000E+00
9	0.000E+00	1.347E-03	7.077E-04	0.000E+00	0.000E+00	0.000E+00	1.033E-04	0.000E+00
10	0.000E+00	4.377E-03	1.073E-03	0.000E+00	0.000E+00	0.000E+00	1.570E-04	0.000E+00
11 12	0.000E+00 0.000E+00	2.354E-03	6.154E-04	0.000E+00	0.000E+00	0.000E+00	8.979E-05	0.000E+00
13	0.000E+00	7.945E-03 4.443E-03	1.431E-03 2.856E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	2.088E-04	0.000E+00
14	0.000E+00	4.324E-03	2.944E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.164E-04 4.292E-04	0.000E+00 0.000E+00
15	0.000E+00	3.888E-03	2.979E-03	0.000E+00	0.000E+00	0.000E+00	4.342E-04	0.000E+00
16	0.000E+00	4.880E-03	3.025E-03	0.000E+00	0.000E+00	0.000E+00	4.407E-04	0.000E+00
17	0.000E+00	4.449E-03	1.017E-03	0.000E+00	0.000E+00	0.000E+00	1.486E-04	0.000E+00
18	0.000E+00	4.634E-03	7.978E-04	0.000E+00	0.000E+00	0.000E+00	1.165E-04	0.000E+00
19	0.000E+00	4.486E-03	8.985E-04	0.000E+00	0.000E+00	0.000E+00	1.312E-04	0.000E+00
20	0.000E+00	5.755E-03	9.244E-04	0.000E+00	0.000E+00	0.000E+00	1.350E-04	0.000E+00
21	0.000E+00	1.023E-02	2.232E-03	0.000E+00	0.000E+00	0.000E+00	3.297E-04	0.000E+00
22	0.000E+00	1.029E-02	2.075E-03	0.000E+00	0.000E+00	0.000E+00	3.060E-04	0.000E+00
23	0.000E+00	1.109E-02	2.436E-03	0.000E+00	0.000E+00	0.000E+00	3.574E-04	0.000E+00
24 25	0.000E+00	1.138E-02	3.173E-03	0.000E+00	0.000E+00	0.000E+00	4.651E-04	0.000E+00
	0.000E+00	1.140E-02	3.332E-03	0.000E+00	0.000E+00	0.000E+00	4.885E-04	0.000E+00
26 27	0.000E+00	1.227E-02	2.948E-03	0.000E+00	0.000E+00	0.000E+00	4.305E-04	0.000E+00
28	0.000E+00 0.000E+00	7.433E-03 7.778E-03	2.236E-03	0.000E+00	0.000E+00	0.000E+00	3.241E-04	0.000E+00
29	0.000E+00	8.772E-03	2.279E-03 3.530E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	3.331E-04 5.161E-04	0.000E+00
30	0.000E+00	9.334E-03	4.036E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	5.891E-04	0.000E+00 0.000E+00
31	0.000E+00	1.093E-02	3.861E-03	0.000E+00	0.000E+00	0.000E+00	5.632E-04	0.000E+00
32	0.000E+00	1.330E-02	3.202E-03	0.000E+00	0.000E+00	0.000E+00	4.666E-04	0.000E+00
33	0.000E+00	1.342E-02	3.023E-03	0.000E+00	0.000E+00	0.000E+00	4.403E-04	0.000E+00
34	0.000E+00	1.372E-02	3.050E-03	0.000E+00	0.000E+00	0.000E+00	4.448E-04	0.000E+00
35	0.000E+00	1.322E-02	2.088E-03	0.000E+00	0.000E+00	0.000E+00	3.053E-04	0.000E+00
36	0.000E+00	1.268E-02	1.720E-03	0.000E+00	0.000E+00	0.000E+00	2.513E-04	0.000E+00
37	0.000E+00	1.211E-02	1.875E-03	0.000E+00	0.000E+00	0.000E+00	2.737E-04	0.000E+00
38	0.000E+00	1.208E-02	9.538E-04	0.000E+00	0.000E+00	0.000E+00	1.394E-04	0.000E+00
39 40	0.000E+00	1.356E-02	1.028E-03 1.115E-03	0.000E+00	0.000E+00	0.000E+00	1.504E-04	0.000E+00
41	0.000E+00 0.000E+00	1.353E-02 1.134E-02	1.432E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.631E-04 2.096E-04	0.000E+00 0.000E+00
42	0.000E+00	6.072E-03	1.481E-03	0.000E+00	0.000E+00	0.000E+00	2.175E-04	0.000E+00
43	0.000E+00	6.346E-03	7.808E-04	0.000E+00	0.000E+00	0.000E+00	1.152E-04	0.000E+00
44	0.000E+00	6.601E-03	5.632E-04	0.000E+00	0.000E+00	0.000E+00	8.183E-05	0.000E+00
45	0.000E+00	6.261E-03	7.031E-04	0.000E+00	0.000E+00	0.000E+00	1.032E-04	0.000E+00
46	0.000E+00	5.840E-03	6.567E-04	0.000E+00	0.000E+00	0.000E+00	9.644E-05	0.000E+00
47	0.000E+00	4.905E-03	7.349E-04	0.000E+00	0.000E+00	0.000E+00	1.084E-04	0.000E+00
48 49	0.000E+00	3.968E-03	9.740E-04	0.000E+00	0.000E+00	0.000E+00	1.427E-04	0.000E+00
50	0.000E+00 0.000E+00	3.266E-03 2.855E-03	7.782E-04 9.197E-04	0.000E+00	0.000E+00	0.000E+00	1.146E-04	0.000E+00
51	0.000E+00	2.934E-03	9.171E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.354E-04 1.344E-04	0.000E+00 0.000E+00
52	0.000E+00	2.944E-03	7.768E-04	0.000E+00	0.000E+00	0.000E+00	1.137E-04	0.000E+00
53	0.000E+00	3.082E-03	6.085E-04	0.000E+00	0.000E+00	0.000E+00	8.937E-05	0.000E+00
54	0.000E+00	3.139E-03	6.404E-04	0.000E+00	0.000E+00	0.000E+00	9.391E-05	0.000E+00
55	0.000E+00	2.688E-03	7.880E-04	0.000E+00	0.000E+00	0.000E+00	1.152E-04	0.000E+00
56	0.000E+00	2.470E-03	9.054E-04	0.000E+00	0.000E+00	0.000E+00	1.325E-04	0.000E+00
57	0.000E+00	2.237E-03	1.002E-03	0.000E+00	0.000E+00	0.000E+00	1.463E-04	0.000E+00
58 59	0.000E+00 0.000E+00	2.190E-03 2.146E-03	1.080E-03 1.193E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	1.575E-04	0.000E+00
60	0.000E+00	2.110E-03	1.397E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.738E-04 2.035E-04	0.000E+00 0.000E+00
61	0.000E+00	2.064E-03	2.418E-03	0.000E+00	0.000E+00	0.000E+00	3.559E-04	0.000E+00
62	0.000E+00	2.025E-03	2.634E-03	0.000E+00	0.000E+00	0.000E+00	3.891E-04	0.000E+00
63	0.000E+00	1.990E-03	1.796E-03	0.000E+00	0.000E+00	0.000E+00	2.619E-04	0.000E+00
64	0.000E+00	1.877E-03	1.616E-03	0.000E+00	0.000E+00	0.000E+00	2.357E-04	0.000E+00
65	0.000E+00	1.855E-03	1.175E-03	0.000E+00	0.000E+00	0.000E+00	1.721E-04	0.000E+00
66 67	0.000E+00	1.833E-03	1.385E-03	0.000E+00	0.000E+00	0.000E+00	2.031E-04	0.000E+00
68	0.000E+00 0.000E+00	1.813E-03 1.886E-03	1.173E-03	0.000E+00	0.000E+00	0.000E+00	1.710E-04	0.000E+00
69	0.000E+00	2.107E-03	1.038E-03 1.566E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.534E-04 2.298E-04	0.000E+00 0.000E+00
70	0.000E+00	2.411E-03	1.871E-03	0.000E+00	0.000E+00	0.000E+00	2.741E-04	0.000E+00
71	0.000E+00	2.450E-03	2.528E-03	0.000E+00	0.000E+00	0.000E+00	3.743E-04	0.000E+00
72	0.000E+00	2.484E-03	1.451E-03	0.000E+00	0.000E+00	0.000E+00	2.121E-04	0.000E+00
73	0.000E+00	2.494E-03	9.721E-04	0.000E+00	0.000 <b>E</b> +00	0.000E+00	1.425E-04	0.000E+00
74 75	0.000E+00	2.494E-03	1.232E-03	0.000E+00	0.000E+00	0.000E+00	1.799E-04	0.000E+00
75 76	0.000E+00	2.793E-03	9.703E-04	0.000E+00	0.000E+00	0.000E+00	1.419E-04	0.000E+00
76 77	0.000E+00 0.000E+00	2.975E-03 3.199E-03	9.924E-04 1.098E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	1.453E-04	0.000E+00
78	0.000E+00	3.222E-03	1.090E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.606E-04 1.590E-04	0.000E+00 0.000E+00
79	0.000E+00	3.447E-03	1.222E-03	0.000E+00	0.000E+00	0.000E+00	1.783E-04	0.000E+00
80	0.000E+00	3.754E-03	1.259E-03	0.000E+00	0.000E+00	0.000E+00	1.837E-04	0.000E+00
81	0.000E+00	4.111E-03	1.158E-03	0.000E+00	0.000E+00	0.000E+00	1.693E-04	0.000E+00
82	0.000E+00	4.560E-03	1.093E-03	0.000E+00	0.000E+00	0.000E+00	1.603E-04	0.000E+00
83	0.000E+00	5.152E-03	1.213E-03	0.000E+00	0.000E+00	0.000E+00	1.779E-04	0.000E+00
84	0.000E+00	6.065E-03	1.257E-03	0.000E+00	0.000E+00	0.000E+00	1.845E-04	0.000E+00
85 86	0.000E+00 0.000E+00	7.713E-03 1.255E-02	1.726E-03 3.619E-03	0.000E+00	0.000E+00	0.000E+00	2.529E-04	0.000E+00
87	0.000E+00	1.179E-02	3.306E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	5.319E-04 4 849F-04	0.000E+00
88	0.000E+00	1.217E-02	3.209E-03	0.000E+00	0.000E+00	0.000E+00	4.849E-04 4.698E-04	0.000E+00 0.000E+00
89	0.000E+00	9.340E-03	3.108E-03	0.000E+00	0.000E+00	0.000E+00	4.545E-04	0.000E+00
90	0.000E+00	9.700E-03	2.746E-03	0.000E+00	0.000E+00	0.000E+00	4.012E-04	0.000E+00
91	0.000E+00	1.800E-03	9.671E-04	0.000E+00	0.000E+00	0.000E+00	1.414E-04	0.000E+00
92 93	0.000E+00	1.723E-03	1.005E-03	0.000E+00	0.000E+00	0.000E+00	1.468E-04	0.000E+00
93 94	0.000E+00 0.000E+00	1.656E-03 1.632E-03	9.616E-04	0.000E+00	0.000E+00	0.000E+00	1.405E-04	0.000E+00
95	0.000E+00	1.641E-03	1.008E-03 1.074E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.467E-04 1.563E-04	0.000E+00 0.000E+00
96	0.000E+00	1.649E-03	1.079E-03	0.000E+00	0.000E+00	0.000E+00	1.580E-04	0.000E+00
97	0.000E+00	1.660E-03	1.292E-03	0.000E+00	0.000E+00	0.000E+00	1.888E-04	0.000E+00
98	0.000E+00	1.673E-03	1.456E-03	0.000E+00	0.000E+00	0.000E+00	2.132E-04	0.000E+00
99	0.000E+00	1.685E-03	1.263E-03	0.000E+00	0.000E+00	0.000E+00	1.843E-04	0.000E+00

100	0.000E+00	1.697E-03	1.329E-03	0.000E+00	0.000E+00	0.000E+00	1.948E-04	0.000E+00
101	0.000E+00	1.711E-03	1.238E-03	0.000E+00	0.000E+00	0.000E+00	1.806E-04	0.000E+00
102	0.000E+00	1.731E-03	1.400E-03	0.000E+00	0.000E+00	0.000E+00	2.040E-04	0.000E+00
103	0.000E+00	1.785E-03	9.872E-04	0.000E+00	0.000E+00	0.000E+00	1.444E-04	0.000E+00
104	0.000E+00	1.713E-03	9.356E-04	0.000E+00	0.000E+00	0.000E+00	1.369E-04	0.000E+00
105	0.000E+00	1.663E-03	1.001E-03	0.000E+00	0.000E+00	0.000E+00	1.458E-04	0.000E+00
106	0.000E+00	1.674E-03	1.092E-03	0.000E+00	0.000E+00	0.000E+00	1.590E-04	0.000E+00
107	0.000E+00	1.683E-03	1.196E-03	0.000E+00	0.000E+00	0.000E+00	1.749E-04	0.000E+00
108	0.000E+00	1.686E-03	1.346E-03	0.000E+00	0.000E+00	0.000E+00	1.967E-04	0.000E+00
109	0.000E+00	1.705E-03	1.442E-03	0.000E+00	0.000E+00	0.000E+00	2.105E-04	0.000E+00
110	0.000E+00	1.718E-03	1.411E-03	0.000E+00	0.000E+00	0.000E+00	2.057E-04	0.000E+00
111	0.000E+00	1.730E-03	1.190E-03	0.000E+00	0.000E+00	0.000E+00	1.736E-04	0.000E+00
112	0.000E+00	1.743E-03	1.342E-03	0.000E+00	0.000E+00	0.000E+00	1.957E-04	0.000E+00
113	0.000E+00	1.756E-03	1.546E-03	0.000E+00	0.000E+00	0.000E+00	2.253E-04	0.000E+00
114	0.000E+00	1.779E-03	1.618E-03	0.000E+00	0.000E+00	0.000E+00	2.357E-04	0.000E+00
115	0.000E+00	1.776E-03	8.971E-04	0.000E+00	0.000E+00	0.000E+00	1.314E-04	0.000E+00
116	0.000E+00	1.699E-03	9.866E-04	0.000E+00	0.000E+00	0.000E+00	1.437E-04	0.000E+00
117	0.000E+00	1.708E-03	1.102E-03	0.000E+00	0.000E+00	0.000E+00	1.605E-04	0.000E+00
118	0.000E+00	1.719E-03	1.270E-03	0.000E+00	0.000E+00	0.000E+00	1.859E-04	0.000E+00
119	0.000E+00	1.731E-03	1.493E-03	0.000E+00	0.000E+00	0.000E+00	2.183E-04	0.000E+00
120	0.000E+00	1.741E-03	1.583E-03	0.000E+00	0.000E+00	0.000E+00	2.310E-04	0.000E+00 0.000E+00
121	0.000E+00	1.753E-03	1.500E-03	0.000E+00	0.000E+00	0.000E+00	2.188E-04 1.933E-04	0.000E+00
122	0.000E+00	1.767E-03	1.326E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	2.090E-04	0.000E+00
123	0.000E+00	1.779E-03	1.433E-03	0.000E+00	0.000E+00	0.000E+00	2.339E-04	0.000E+00
124	0.000E+00	1.800E-03	1.605E-03	0.000E+00	0.000E+00	0.000E+00	2.444E-04	0.000E+00
125	0.000E+00	1.816E-03	1.678E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00	2.546E-04	0.000E+00
126	0.000E+00	1.830E-03	1.748E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	1.407E-04	0.000E+00
127	0.000E+00	1.759E-03	9.652E-04 1.105E-03	0.000E+00	0.000E+00	0.000E+00	1.610E-04	0.000E+00
128	0.000E+00	1.748E-03	1.306E-03	0.000E+00	0.000E+00	0.000E+00	1.914E-04	0.000E+00
129	0.000E+00	1.761E-03 1.776E-03	1.452E-03	0.000E+00	0.000E+00	0.000E+00	2.126E-04	0.000E+00
130	0.000E+00		1.322E-03	0.000E+00	0.000E+00	0.000E+00	1.935E-04	0.000E+00
131	0.000E+00 0.000E+00	1.783E-03 1.800E-03	1.642E-03	0.000E+00	0.000E+00	0.000E+00	2.395E-04	0.000E+00
132	0.000E+00	1.805E-03	1.433E-03	0.000E+00	0.000E+00	0.000E+00	2.090E-04	0.000E+00
133 134	0.000E+00	1.825E-03	1.459E-03	0.000E+00	0.000E+00	0.000E+00	2.128E-04	0.000E+00
135	0.000E+00	1.842E-03	1.594E-03	0.000E+00	0.000E+00	0.000E+00	2.323E-04	0.000E+00
136	0.000E+00	1.855E-03	2.119E-03	0.000E+00	0.000E+00	0.000E+00	3.152E-04	0.000E+00
137	0.000E+00	1.870E-03	1.854E-03	0.000E+00	0.000E+00	0.000E+00	2.700E-04	0.000E+00
138	0.000E+00	1.885E-03	1.826E-03	0.000E+00	0.000E+00	0.000E+00	2.715E-04	0.000E+00
139	0.000E+00	1.803E-03	1.103E-03	0.000E+00	0.000E+00	0.000E+00	1.608E-04	0.000E+00
140	0.000E+00	1.807E-03	1.289E-03	0.000E+00	0.000E+00	0.000E+00	1.893E-04	0.000E+00
141	0.000E+00	1.817E-03	1.480E-03	0.000E+00	0.000E+00	0.000E+00	2.171E-04	0.000E+00
142	0.000E+00	1.823E-03	1.397E-03	0.000E+00	0.000E+00	0.000E+00	2.154E-04	0.000E+00
143	0.000E+00	1.841E-03	1.321E-03	0.000E+00	0.000E+00	0.000E+00	2.032E-04	0.000E+00
144	0.000E+00	1.857E-03	1.463E-03	0.000E+00	0.000E+00	0.000E+00	2.134E-04	0.000E+00
145	0.000E+00	1.869E-03	1.551E-03	0.000E+00	0.000E+00	0.000E+00	2.262E-04	0.000E+00
146	0.000E+00	1.886E-03	1.645E-03	0.000E+00	0.000E+00	0.000E+00	2.398E-04	0.000E+00 0.000E+00
147	0.000E+00	1.900E-03	1.896E-03	0.000E+00	0.000E+00	0.000E+00	2.761E-04	0.000E+00
148	0.000E+00	1.915E-03	2.332E-03	0.000E+00	0.000E+00	0.000E+00	3.466E-04 3.570E-04	0.000E+00
149	0.000E+00	1.931E-03	2.410E-03	0.000E+00	0.000E+00	0.000E+00	3.454E-04	0.000E+00
150	0.000E+00	1.943E-03	2.336E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	2.478E-04	0.000E+00
151	0.000E+00	1.933E-03	1.699E-03	0.000E+00	0.000E+00	0.000E+00	3.348E-04	0.000E+00
152	0.000E+00	1.947E-03	2.244E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00	3.804E-04	0.000E+00
153	0.000E+00	1.964E-03	2.561E-03	0.000E+00	0.000E+00	0.000E+00	2.533E-04	0.000E+00
154	0.000E+00	1.983E-03	1.740E-03 2.504E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	3.691E-04	0.000E+00
155	0.000E+00	1.991E-03		0.000E+00	0.000E+00	0.000E+00	3.476E-04	0.000E+00
156	0.000E+00	2.016E-03 2.498E-03	2.359E-03 1.147E-03	0.000E+00	0.000E+00	0.000E+00	1.675E-04	0.000E+00
157 158	0.000E+00 0.000E+00	2.193E-03	9.663E-04	0.000E+00	0.000E+00	0.000E+00	1.425E-04	0.000E+00
159	0.000E+00	1.944E-03	6.196E-04	0.000E+00	0.000E+00	0.000E+00	9.070E-05	0.000E+00
160	0.000E+00	1.752E-03	7.871E-04	0.000E+00	0.000E+00	0.000E+00	1.161E-04	0.000E+00
161	0.000E+00	1.594E-03	8.254E-04	0.000E+00	0.000E+00	0.000E+00	1.205E-04	0.000E+00
162	0.000E+00	1.472E-03	8.314E-04	0.000E+00	0.000E+00	0.000E+00	1.212E-04	0.000E+00
163	0.000E+00	1.485E-03	9.171E-04	0.000E+00	0.000E+00	0.000E+00	1.336E-04	0.000E+00
164	0.000E+00	1.516E-03	9.087E-04	0.000E+00	0.000E+00	0.000E+00	1.331E-04 2.056E-04	0.000E+00 0.000E+00
165	0.000E+00	1.540E-03	1.408E-03	0.000E+00	0.000E+00	0.000E+00	2.223E-04	0.000E+00
166	0.000E+00	1.567E-03	1.524E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	1.871E-04	0.000E+00
167	0.000E+00	1.594E-03	1.284E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00	1.184E-04	0.000E+00
168	0.000E+00	2.198E-03	8.086E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00	9.874E-05	0.000E+00
169	0.000E+00	1.933E-03	6.742E-04	0.000E+00	0.000E+00	0.000E+00	1.292E-04	0.000E+00
170 171	0.000E+00 0.000E+00	1.723E-03 1.570E-03	8.848E-04 8.698E-04	0.000E+00	0.000E+00	0.000E+00	1.270E-04	0.000E+00
		1.541E-03	9.753E-04	0.000E+00	0.000E+00	0.000E+00	1.420E-04	0.000E+00
172 173	0.000E+00 0.000E+00	1.566E-03	9.537E-04	0.000E+00	0.000E+00	0.000E+00	1.398E-04	0.000E+00
174	0.000E+00	1.594E-03	1.390E-03	0.000E+00	0.000E+00	0.000E+00	2.033E-04	0.000E+00
175	0.000E+00	1.624E-03	1.354E-03	0.000E+00	0.000E+00	0.000E+00	1.979E-04	0.000E+00
176	0.000E+00	1.655E-03	1.440E-03	0.000E+00	0.000E+00	0.000E+00	2.098E-04	0.000E+00
177	0.000E+00	1.686E-03	1.543E-03	0.000E+00	0.000E+00	0.000E+00	2.247E-04	0.000E+00
178	0.000E+00	2.175E-03	9.791E-04	0.000E+00	0.000E+00	0.000E+00	1.430E-04	0.000E+00
179	0.000E+00	1.898E-03	7.291E-04	0.000E+00	0.000E+00	0.000E+00	1.069E-04	0.000E+00
180	0.000E+00	1.695E-03	1.008E-03	0.000E+00	0.000E+00	0.000E+00	1.472E-04	0.000E+00 0.000E+00
181	0.000E+00	1.602E-03	1.007E-03	0.000E+00	0.000E+00	0.000E+00	1.466E-04	0.000E+00
182	0.000E+00	1.626E-03	1.267E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	1.851E-04 1.958E-04	0.000E+00
183	0.000E+00	1.656E-03	1.336E-03	0.000E+00	0.000E+00	0.000E+00	1.792E-04	0.000E+00
184	0.000E+00	1.695E-03	1.229E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00	2.373E-04	0.000E+00
185	0.000E+00	1.723E-03	1.629E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	2.324E-04	0.000E+00
186	0.000E+00	1.758E-03	1.596E-03	0.000E+00	0.000E+00	0.000E+00	2.176E-04	0.000E+00
187	0.000E+00	1.793E-03	1.494E-03 1.251E-03	0.000E+00	0.000E+00	0.000E+00	1.834E-04	0.000E+00
188	0.000E+00 0.000E+00	2.140E-03 1.863E-03	8.068E-04	0.000E+00	0.000E+00	0.000E+00	1.183E-04	0.000E+00
189 190	0.000E+00	1.681E-03	9.948E-04	0.000E+00	0.000E+00	0.000E+00	1.449E-04	0.000E+00
191	0.000E+00	1.705E-03	1.366E-03	0.000E+00	0.000E+00	0.000E+00	1.998E-04	0.000E+00
192	0.000E+00	1.735E-03	1.454E-03	0.000E+00	0.000E+00	0.000E+00	2.121E-04	0.000E+00
193	0.000E+00	1.767E-03	1.484E-03	0.000E+00	0.000E+00	0.000E+00	2.163E-04	0.000E+00
194	0.000E+00	1.811E-03	1.732E-03	0.000E+00	0.000E+00	0.000E+00	2.523E-04 2.307E-04	0.000E+00 0.000E+00
195	0.000E+00	1.843E-03	1.585E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	2.280E-04	0.000E+00
196	0.000E+00	1.888E-03	1.566E-03	0.000E+00	0.000E+00	0.000E+00	2.2005 04	0.0001.00

197	0.000E+00	1.924E-03	1.386E-03	0.000E+00	0.000E+00	0.000E+00	2.018E-04	0.000E+00
198	0.000E+00	2.105E-03	1.499E-03	0.000E+00	0.000E+00	0.000E+00	2.201E-04	0.000E+00
199	0.000E+00	1.832E+03	9.380E-04	0.000E+00	0.000E+00	0.000E+00	1.368E-04	0.000E+00
200	0.000E+00	1.810E-03	1.415E-03	0.000E+00	0.000E+00	0.000E+00	2.075E-04	0.000E+00
201	0.000E+00	1.878E-03	1.563E-03	0.000E+00	0.000E+00	0.000E+00	2.279E-04	0.000E+00
202	0.000E+00	1.956E-03	2.324E-03	0.000E+00	0.000E+00	0.000E+00	3.427E-04	0.000E+00
203	0.000E+00	2.002E-03	1.523E-03	0.000E+00	0.000E+00	0.000E+00	2.218E-04	0.000E+00
204	0.000E+00	2.035E-03	1.241E-03	0.000E+00	0.000E+00	0.000E+00	1.809E-04	0.000E+00
205	0.000E+00	2.092E-03	1.133E-03	0.000E+00	0.000E+00	0.000E+00	1.651E-04	0.000E+00
206	0.000E+00	2.302E-03	9.557E-04	0.000E+00	0.000E+00	0.000E+00	1.397E-04	0.000E+00
207	0.000E+00	2.573E-03	8.750E-04	0.000E+00	0.000E+00	0.000E+00	1.280E-04	0.000E+00
208	0.000E+00	2.293E-03	4.512E-04	0.000E+00	0.000E+00	0.000E+00	6.601E-05	0.000E+00
209	0.000E+00	2.303E-03	5.860E-04	0.000E+00	0.000E+00	0.000E+00	8.567E-05	0.000E+00
210	0.000E+00	2.303E-03	6.484E-04	0.000E+00	0.000E+00	0.000E+00	9.482E-05	0.000E+00
211 212	0.000E+00 0.000E+00	2.326E-03 2.281E-03	5.613E-04 7.363E-04	0.000E+00	0.000E+00	0.000E+00	8.181E-05	0.000E+00
213	0.000E+00	2.111E-03	8.499E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	1.075E-04 1.242E-04	0.000E+00 0.000E+00
214	0.000E+00	1.924E-03	6.687E-04	0.000E+00	0.000E+00 0.000E+00	0.000E+00	9.777E-05	0.000E+00
215	0.000E+00	1.901E-03	8.667E-04	0.000E+00	0.000E+00	0.000E+00	1.266E-04	0.000E+00
216	0.000E+00	1.865E-03	8.279E-04	0.000E+00	0.000E+00	0.000E+00	1.209E-04	0.000E+00
217	0.000E+00	1.889E-03	8.771E-04	0.000E+00	0.000E+00	0.000E+00	1.281E-04	0.000E+00
218	0.000E+00	1.799E-03	7.821E-04	0.000E+00	0.000E+00	0.000E+00	1.142E-04	0.000E+00
219	0.000E+00	1.615E-03	1.002E-03	0.000E+00	0.000E+00	0.000E+00	1.468E-04	0.000E+00
220	0.000E+00	1.510E-03	5.976E-04	0.000E+00	0.000E+00	0.000E+00	8.758E-05	0.000E+00
221	0.000E+00	1.368E-03	3.570E-04	0.000E+00	0.000E+00	0.000E+00	5.220E-05	0.000E+00
222	0.000E+00	1.241E-03	4.912E-04	0.000E+00	0.000E+00	0.000E+00	7.172E-05	0.000E+00
223	0.000E+00	1.176E-03	5.806E-04	0.000E+00	0.000E+00	0.000E+00	8.461E-05	0.000E+00
224	0.000E+00	1.199E-03	6.278E-04	0.000E+00	0.000E+00	0.000E+00	9.151E-05	0.000E+00
225	0.000E+00	1.223E-03	6.339E-04	0.000E+00	0.000E+00	0.000E+00	9.248E-05	0.000E+00
226 227	0.000E+00 0.000E+00	1.245E-03 2.370E-03	7.058E-04 6.659E-04	0.000E+00	0.000E+00	0.000E+00	1.031E-04	0.000E+00
228	0.000E+00	2.500E-03	5.691E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	9.740E-05	0.000E+00 0.000E+00
229	0.000E+00	2.532E-03	5.832E-04	0.000E+00	0.000E+00	0.000E+00	8.332E-05 8.525E-05	0.000E+00
230	0.000E+00	2.617E-03	6.957E-04	0.000E+00	0.000E+00	0.000E+00	1.017E-04	0.000E+00
231	0.000E+00	2.470E-03	6.130E-04	0.000E+00	0.000E+00	0.000E+00	8.940E-05	0.000E+00
232	0.000E+00	2.335E-03	8.104E-04	0.000E+00	0.000E+00	0.000E+00	1.184E-04	0.000E+00
233	0.000E+00	2.188E-03	8.858E-04	0.000E+00	0.000E+00	0.000E+00	1.294E-04	0.000E+00
234	0.000E+00	2.102E-03	7.783E-04	0.000E+00	0.000E+00	0.000E+00	1.137E-04	0.000E+00
235	0.000E+00	2.087E-03	8.762E-04	0.000E+00	0.000E+00	0.000E+00	1.279E-04	0.000E+00
236	0.000E+00	2.067E-03	9.166E-04	0.000E+00	0.000E+00	0.000E+00	1.338E-04	0.000E+00
237	0.000E+00	1.960E-03	8.135E-04	0.000E+00	0.000E+00	0.000E+00	1.188E-04	0.000E+00
238	0.000E+00	1.756E-03	9.995E-04	0.000E+00	0.000E+00	0.000E+00	1.467E-04	0.000E+00
239	0.000E+00	1.530E-03	5.913E-04	0.000E+00	0.000E+00	0.000E+00	8.667E-05	0.000E+00
240	0.000E+00	1.401E-03	5.341E-04	0.000E+00	0.000E+00	0.000E+00	7.799E-05	0.000E+00
241	0.000E+00	1.264E-03	5.669E-04	0.000E+00	0.000E+00	0.000E+00	8.263E-05	0.000E+00
242	0.000E+00	1.246E-03	6.712E-04	0.000E+00	0.000E+00	0.000E+00	9.783E-05	0.000E+00
243	0.000E+00	1.277E-03	6.517E-04	0.000E+00	0.000E+00	0.000E+00	9.512E-05	0.000E+00
244 245	0.000E+00 0.000E+00	1.306E-03 1.325E-03	8.094E-04	0.000E+00	0.000E+00	0.000E+00	1.182E-04	0.000E+00
246	0.000E+00	2.633E-03	9.183E-04 5.655E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.340E-04 8.265E-05	0.000E+00 0.000E+00
247	0.000E+00	2.637E-03	6.870E-04	0.000E+00	0.000E+00	0.000E+00	1.004E-04	0.000E+00
248	0.000E+00	2.730E-03	6.871E-04	0.000E+00	0.000E+00	0.000E+00	1.005E-04	0.000E+00
249	0.000E+00	2.862E-03	5.692E-04	0.000E+00	0.000E+00	0.000E+00	8.322E-05	0.000E+00
250	0.000E+00	2.851E-03	7.476E-04	0.000E+00	0.000E+00	0.000E+00	1.093E-04	0.000E+00
251	0.000E+00	2.744E-03	6.586E-04	0.000E+00	0.000E+00	0.000E+00	9.614E-05	0.000E+00
252	0.000E+00	2.462E-03	9.100E-04	0.000E+00	0.000E+00	0.000E+00	1.329E-04	0.000E+00
253	0.000E+00	2.392E-03	8.704E-04	0.000E+00	0.000E+00	0.000E+00	1.271E-04	0.000E+00
254 255	0.000E+00	2.339E-03	9.542E-04	0.000E+00	0.000E+00	0.000E+00	1.393E-04	0.000E+00
255 256	0.000E+00 0.000E+00	2.333E-03 2.086E-03	9.397E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00	1.372E-04	0.000E+00
257	0.000E+00	1.870E-03	8.453E-04 9.709E-04	0.000E+00	0.000E+00	0.000E+00	1.234E-04	0.000E+00 0.000E+00
258	0.000E+00	1.618E-03	5.992E-04	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.427E-04 8.783E-05	0.000E+00
259	0.000E+00	1.420E-03	6.120E-04	0.000E+00	0.000E+00	0.000E+00	8.936E-05	0.000E+00
260	0.000E+00	1.304E-03	6.883E-04	0.000E+00	0.000E+00	0.000E+00	1.003E-04	0.000E+00
261	0.000E+00	1.336E-03	6.681E-04	0.000E+00	0.000E+00	0.000E+00	9.736E-05	0.000E+00
262	0.000E+00	1.371E-03	9.423E-04	0.000E+00	0.000E+00	0.000E+00	1.377E-04	0.000E+00
263	0.000E+00	1.396E-03	1.011E-03	0.000E+00	0.000E+00	0.000E+00	1.475E-04	0.000E+00
264	0.000E+00	1.427E-03	1.188E-03	0.000E+00	0.000E+00	0.000E+00	1.731E-04	0.000E+00
265	0.000E+00	2.631E-03	7.19ZE-04	0.000E+00	0.000E+00	0.000E+00	1.052E-04	0.000E+00
266	0.000E+00	2.853E-03	6.508E-04	0.000E+00	0.000E+00	0.000E+00	9.524E-05	0.000E+00
267	0.000E+00	2.903E-03	6.455E-04	0.000E+00	0.000E+00	0.000E+00	9.437E-05	0.000E+00
268	0.000E+00	3.010E-03	7.721E-04	0.000E+00	0.000E+00	0.000E+00	1.129E-04	0.000E+00
269 270	0.000E+00 0.000E+00	3.091E-03	6.322E-04	0.000E+00	0.000E+00	0.000E+00	9.254E-05	0.000E+00
270 271	0.000E+00	3.119E-03 2.877E-03	8.034E-04	0.000E+00	0.000E+00	0.000E+00	1.174E-04	0.000E+00
272	0.000E+00	2.682E-03	7.140E-04 1.036E-03	0.000E+00	0.000E+00	0.000E+00	1.043E-04	0.000E+00
273	0.000E+00	2.675E-03	1.029E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.513E-04 1.503E-04	0.000E+00 0.000E+00
274	0.000E+00	2.602E-03	9.117E-04	0.000E+00	0.000E+00	0.000E+00	1.331E-04	0.000E+00
275	0.000E+00	2.257E-03	8.766E-04	0.000E+00	0.000E+00	0.000E+00	1.280E-04	0.000E+00
276	0.000E+00	1.907E-03	9.114E-04	0.000E+00	0.000E+00	0.000E+00	1.344E-04	0.000E+00
277	0.000E+00	1.624E-03	6.245E-04	0.000E+00	0.000E+00	0.000E+00	9.125E-05	0.000E+00
278	0.000E+00	1.407E-03	7.508E-04	0.000E+00	0.000E+00	0.000E+00	1.094E-04	0.000E+00
279	0.000E+00	1.407E-03	7.828E-04	0.000E+00	0.000E+00	0.000E+00	1.140E-04	0.000E+00
280	0.000E+00	1.449E-03	1.122E-03	0.000E+00	0.000E+00	0.000E+00	1.639E-04	0.000E+00
281	0.000E+00	1.490E-03	1.103E-03	0.000E+00	0.000E+00	0.000E+00	1.610E-04	0.000E+00
282 283	0.000E+00 0.000E+00	1.526E-03	1.330E-03	0.000E+00	0.000E+00	0.000E+00	1.938E-04	0.000E+00
283 284	0.000E+00	1.574E-03 2.669E-03	1.169E-03	0.000E+00	0.000E+00	0.000E+00	1.703E-04	0.000E+00
285	0.000E+00	2.891E-03	7.410E-04 7.885E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	1.082E-04	0.000E+00
286	0.000E+00	3.016E-03	8.002E-04	0.000E+00	0.000E+00	0.000E+00 0.000E+00	1.152E-04 1.170E-04	0.000E+00 0.000E+00
287	0.000E+00	3.185E-03	7.355E-04	0.000E+00	0.000E+00	0.000E+00	1.076E-04	0.000E+00
288	0.000E+00	3.416E-03	7.799E-04	0.000E+00	0.000E+00	0.000E+00	1.140E-04	0.000E+00
289	0.000E+00	3.609E-03	8.102E-04	0.000E+00	0.000E+00	0.000E+00	1.185E-04	0.000E+00
290	0.000E+00	3.475E-03	8.609E-04	0.000E+00	0.000E+00	0.000E+00	1.257E-04	0.000E+00
291 292	0.000E+00	2.961E-03	8.263E-04	0.000E+00	0.000E+00	0.000E+00	1.208E-04	0.000E+00
292	0.000E+00 0.000E+00	3.091E-03 2.934E-03	1.646E-03 1.062E-03	0.000E+00	0.000E+00	0.000E+00	2.421E-04	0.000E+00
270	0.00ET00	2.7045-03	1.0025-03	0.000E+ <u>0</u> 0	0.000E+00	0.000E+00	1.552E-04	0.000E+00

294	0.000E+00	1.644E-03	1.383E-03	0.000E+00	0.000E+00	0.000E+00	2.015E-04	0.000E+00
295	0.000E+00	1.711E-03	1.347E-03	0.000E+00	0.000E+00	0.000E+00	1.962E-04	0.000E+00
296	0.000E+00	1.748E-03	1.133E-03	0.000E+00	0.000E+00	0.000E+00	1.652E-04	0.000E+00
297	0.000E+00	2.504E-03	5.975E-04	0.000E+00	0.000E+00	0.000E+00	8.705E-05	0.000E+00
298 299	0.000E+00	2.965E-03	6.815E-04	0.000E+00	0.000E+00	0.000E+00	9.940E-05	0.000E+00
300	0.000E+00 0.000E+00	3.137E-03 3.340E-03	7.584E-04 8.407E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.108E-04 1.229E-04	0.000E+00 0.000E+00
301	0.000E+00	3.550E-03	9.036E-04	0.000E+00	0.000E+00	0.000E+00	1.321E-04	0.000E+00
302	0.000E+00	3.928E-03	8.561E-04	0.000E+00	0.000E+00	0.000E+00	1.252E-04	0.000E+00
303	0.000E+00	4.241E-03	9.400E-04	0.000E+00	0.000E+00	0.000E+00	1.374E-04	0.000E+00
304	0.000E+00	3.647E-03	9.159E-04	0.000E+00	0.000E+00	0.000E+00	1.337E-04	0.000E+00
305	0.000E+00	3.638E-03	1.065E-03	0.000E+00	0.000E+00	0.000E+00	1.556E-04	0.000E+00
306	0.000E+00	1.869E-03	1.282E-03	0.000E+00	0.000E+00	0.000E+00	1.868E-04	0.000E+00
307 308	0.000E+00	1.940E-03	1.088E-03	0.000E+00	0.000E+00	0.000E+00	1.586E-04	0.000E+00
309	0.000E+00 0.000E+00	1.957E-03 2.704E-03	9.765E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00	1.425E-04	0.000E+00
310	0.000E+00	2.903E-03	4.150E-04 4.960E-04	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	6.082E-05 7.212E-05	0.000E+00 0.000E+00
311	0.000E+00	3.007E-03	5.955E-04	0.000E+00	0.000E+00	0.000E+00	8.669E-05	0.000E+00
312	0.000E+00	3.454E-03	6.660E-04	0.000E+00	0.000E+00	0.000E+00	9.712E-05	0.000E+00
313	0.000E+00	3.752E-03	7.404E-04	0.000E+00	0.000E+00	0.000E+00	1.082E-04	0.000E+00
314	0.000E+00	4.145E-03	8.726E-04	0.000E+00	0.000E+00	0.000E+00	1.275E-04	0.000E+00
315	0.000E+00	4.735E-03	1.032E-03	0.000E+00	0.000E+00	0.000E+00	1.508E-04	0.000E+00
316 317	0.000E+00 0.000E+00	5.078E-03	1.029E-03	0.000E+00	0.000E+00	0.000E+00	1.504E-04	0.000E+00
318	0.000E+00	4.542E-03 2.194E-03	1.075E-03 9.709E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.575E-04 1.418E-04	0.000E+00 0.000E+00
319	0.000E+00	2.204E-03	8.375E-04	0.000E+00	0.000E+00	0.000E+00	1.224E-04	0.000E+00
320	0.000E+00	2.286E-03	6.098E-04	0.000E+00	0.000E+00	0.000E+00	8.911E-05	0.000E+00
321	0.000E+00	2.578E-03	8.261E-04	0.000E+00	0.000E+00	0.000E+00	1.214E-04	0.000E+00
322	0.000E+00	2.849E-03	8.387E-04	0.000E+00	0.000E+00	0.000E+00	1.233E-04	0.000E+00
323	0.000E+00	3.140E-03	8.507E-04	0.000E+00	0.000E+00	0.000E+00	1.251E-04	0.000E+00
324 325	0.000E+00	3.293E-03	8.609E-04	0.000E+00	0.000E+00	0.000E+00	1.266E-04	0.000E+00
326	0.000E+00 0.000E+00	3.764E-03 4.372E-03	8.674E-04 9.015E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	1.276E-04	0.000E+00
327	0.000E+00	5.022E-03	1.069E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	1.319E-04 1.564E-04	0.000E+00 0.000E+00
328	0.000E+00	6.789E-03	1.225E-03	0.000E+00	0.000E+00	0.000E+00	1.792E-04	0.000E+00
329	0.000E+00	6.761E-03	1.370E-03	0.000E+00	0.000E+00	0.000E+00	2.003E-04	0.000E+00
330	0.000E+00	2.665E-03	6.831E-04	0.000E+00	0.000E+00	0.000E+00	9.977E-05	0.000E+00
331	0.000E+00	2.703E-03	6.682E-04	0.000E+00	0.000E+00	0.000E+00	9.770E-05	0.000E+00
332	0.000E+00	2.566E-03	6.761E-04	0.000E+00	0.000E+00	0.000E+00	9.889E-05	0.000E+00
333	0.000E+00	2.510E-03	2.258E-03	0.000E+00	0.000E+00	0.000E+00	3.300E-04	0.000E+00
334 335	0.000E+00 0.000E+00	2.692E-03	2.361E-03	0.000E+00	0.000E+00	0.000E+00	3.450E-04	0.000E+00
336	0.000E+00	2.924E-03 3.247E-03	2.470E-03 2.582E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.609E-04 3.772E-04	0.000E+00 0.000E+00
337	0.000E+00	3.745E-03	2.691E-03	0.000E+00	0.000E+00	0.000E+00	3.930E-04	0.000E+00
338	0.000E+00	4.488E-03	2.782E-03	0.000E+00	0.000E+00	0.000E+00	4.062E-04	0.000E+00
339	0.000E+00	5.296E-03	2.823E-03	0.000E+00	0.000E+00	0.000E+00	4.122E-04	0.000E+00
340	0.000E+00	7.010E-03	2.740E-03	0.000E+00	0.000E+00	0.000E+00	4.003E-04	0.000E+00
341	0.000E+00	3.292E-03	6.527E-04	0.000E+00	0.000E+00	0.000E+00	9.583E-05	0.000E+00
342	0.000E+00	3.417E-03	7.534E-04	0.000E+00	0.000E+00	0.000E+00	1.101E-04	0.000E+00
343 344	0.000E+00 0.000E+00	3.351E-03 3.095E-03	7.687E-04 7.126E-04	0.000E+00	0.000E+00	0.000E+00	1.123E-04 1.040E-04	0.000E+00
345	0.000E+00	2.880E-03	6.221E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	9.077E-05	0.000E+00 0.000E+00
346	0.000E+00	2.568E-03	2.651E-03	0.000E+00	0.000E+00	0.000E+00	3.876E-04	0.000E+00
347	0.000E+00	2.676E-03	2.672E-03	0.000E+00	0.000E+00	0.000E+00	3.907E-04	0.000E+00
348	0.000E+00	2.601E-03	2.689E-03	0.000E+00	0.000E+00	0.000E+00	3.933E-04	0.000E+00
349	0.000E+00	2.442E-03	2.707E-03	0.000E+00	0.000E+00	0.000E+00	3.959E-04	0.000E+00
350	0.000E+00	3.414E-03	2.735E-03	0.000E+00	0.000E+00	0.000E+00	4.000E-04	0.000E+00
351	0.000E+00	3.920E-03	2.787E-03	0.000E+00	0.000E+00	0.000E+00	4.077E-04	0.000E+00
352 353	0.000E+00 0.000E+00	4.451E-03 6.623E-03	2.879E-03 3.004E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.212E-04 4.397E-04	0.000E+00 0.000E+00
354	0.000E+00	4.753E-03	6.633E-04	0.000E+00	0.000E+00	0.000E+00	9.711E-05	0.000E+00
355	0.000E+00	4.199E-03	5.516E-04	0.000E+00	0.000E+00	0.000E+00	8.055E-05	0.000E+00
356	0.000E+00	3.846E-03	4.970E-04	0.000E+00	0.000E+00	0.000E+00	7.250E-05	0.000E+00
357	0.000E+00	3.492E-03	4.588E-04	0.000E+00	0.000E+00	0.000E+00	6.689E-05	0.000E+00
358	0.000E+00	3.210E-03	4.282E-04	0.000E+00	0.000E+00	0.000E+00	6.242E-05	0.000E+00
359 360	0.000E+00	2.610E-03	2.108E-03	0.000E+00	0.000E+00	0.000E+00	3.070E-04	0.000E+00
360 361	0.000E+00 0.000E+00	2.834E-03 3.070E-03	2.107E-03 2.100E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.068E-04 3.056E-04	0.000E+00 0.000E+00
362	0.000E+00	3.328E-03	2.083E-03	0.000E+00	0.000E+00	0.000E+00	3.030E-04	0.000E+00
363	0.000E+00	3.631E-03	2.054E-03	0.000E+00	0.000E+00	0.000E+00	2.985E-04	0.000E+00
364	0.000E+00	4.038E-03	2.017E-03	0.000E+00	0.000E+00	0.000E+00	2.929E-04	0.000E+00
365	0.000E+00	4.626E-03	1.980E-03	0.000E+00	0.000E+00	0.000E+00	2.874E-04	0.000E+00
366	0.000E+00	5.512E-03	1.937E-03	0.000E+00	0.000E+00	0.000E+00	2.808E-04	0.000E+00
367	0.000E+00	7.276E-03	1.972E-03	0.000E+00	0.000E+00	0.000E+00	2.857E-04	0.000E+00
368 369	0.000E+00 0.000E+00	9.912E-03 6.459E-03	1.625E-03 8.569E-04	0.000E+00	0.000E+00 0.000E+00	0.000E+00	2.371E-04	0.000E+00 0.000E+00
370	0.000E+00	5.192E-03	5.126E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	1.263E-04 7.475E-05	0.000E+00
371	0.000E+00	4.463E-03	5.936E-04	0.000E+00	0.000E+00	0.000E+00	8.712E-05	0.000E+00
372	0.000E+00	3.983E-03	5.480E-04	0.000E+00	0.000E+00	0.000E+00	8.042E-05	0.000E+00
373	0.000E+00	3.621E-03	5.059E-04	0.000E+00	0.000E+00	0.000E+00	7.391E-05	0.000E+00
374	0.000E+00	3.312E-03	4.637E-04	0.000E+00	0.000E+00	0.000E+00	6.778E-05	0.000E+00
375 376	0.000E+00	2.054E-03	6.010E-04	0.000E+00	0.000E+00	0.000E+00	8.772E-05	0.000E+00
376 377	0.000E+00 0.000E+00	2.059E-03 2.030E-03	6.474E-04 6.757E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	9.447E-05 9.858E-05	0.000E+00 0.000E+00
378	0.000E+00	2.403E-03	6.773E-04	0.000E+00	0.000E+00	0.000E+00	9.879E-05	0.000E+00
379	0.000E+00	3.289E-03	6.349E-04	0.000E+00	0.000E+00	0.000E+00	9.257E-05	0.000E+00
380	0.000E+00	4.001E-03	5.981E-04	0.000E+00	0.000E+00	0.000E+00	8.765E-05	0.000E+00
381	0.000E+00	4.616E-03	8.403E-04	0.000E+00	0.000E+00	0.000E+00	1.224E-04	0.000E+00
382	0.000E+00	5.528E-03	9.712E-04	0.000E+00	0.000E+00	0.000E+00	1.413E-04	0.000E+00
383 384	0.000E+00 0.000E+00	7.073E-03	2.549E-03	0.000E+00	0.000E+00	0.000E+00	3.711E-04	0.000E+00
385	0.000E+00	7.701E-03 9.775E-03	3.062E-03 2.634E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.462E-04 3.845E-04	0.000E+00 0.000E+00
386	0.000E+00	9.513E-03	1.885E-03	0.000E+00	0.000E+00	0.000E+00	2.751E-04	0.000E+00
387	0.000E+00	9.567E-03	1.167E-03	0.000E+00	0.000E+00	0.000E+00	1.702E-04	0.000E+00
388	0.000E+00	6.531E-03	1.035E-03	0.000E+00	0.000E+00	0.000E+00	1.515E-04	0.000E+00
389 390	0.000E+00		1.103E-03	0.000E+00		0.000E+00	1.614E-04	0.000E+00
330	0.000E+00	4.441E-03	3.696E-04	0.000E+00	0.000E+00	0.000£+00	5.458E-05	0.000E+00

391	0.000E+00	3.861E-03	3.835E-04	0.000E+00	0.000E+00	0.000E+00	E COCT-AC	0.0008+00
392	0.000E+00	3.481E-03	4.225E-04	0.000E+00	0.000E+00		5.585E-05	0.000E+00
393	0.000E+00	3.284E-03	4.404E-04	0.000E+00		0.000E+00	6.159E-05	0.000E+00
394	0.000E+00	2.515E-03	5.540E-04	0.000E+00	0.000E+00	0.000E+00	6.424E-05	0.000E+00
395	0.000E+00	2.562E-03	5.060E-04	0.000E+00	0.000E+00	0.000E+00	8.079E-05	0.000E+00
396	0.000E+00	2.917E-03	4.555E-04		0.000E+00	0.000E+00	7.377E-05	0.000E+00
397	0.000E+00	3.147E-03	5.201E-04	0.000E+00	0.000E+00	0.000E+00	6.656E-05	0.000E+00
398	0.000E+00	2.780E-03	5.633E-04	0.000E+00	0.000E+00	0.000E+00	7.600E-05	0.000E+00
399	0.000E+00	3.657E-03	8.318E-04	0.000E+00	0.000E+00	0.000E+00	8.211E-05	0.000E+00
400	0.000E+00	3.867E-03		0.000E+00	0.000E+00	0.000E+00	1.212E-04	0.000E+00
401	0.000E+00	3.889E-03	7.381E-04	0.000E+00	0.000E+00	0.000E+00	1.075E-04	0.000E+00
402	0.000E+00	3.613E-03	1.153E-03	0.000E+00	0.000E+00	0.000E+00	1.682E-04	0.000E+00
403	0.000E+00		2.490E-03	0.000E+00	0.000E+00	0.000E+00	3.631E-04	0.000E+00
404	0.000E+00	3.641E-03	3.046E-03	0.000E+00	0.000E+00	0.000E+00	4.438E-04	0.000E+00
405	0.000E+00	5.263E-03	2.329E-03	0.000E+00	0.000E+00	0.000E+00	3.402E-04	0.000E+00
406	0.000E+00	5.614E-03	1.625E-03	0.000E+00	0.000E+00	0.000E+00	2.372E-04	0.000E+00
407		5.382E-03	9.573E-04	0.000E+00	0.000E+00	0.000E+00	1.398E-04	0.000E+00
408	0.000E+00	5.21ZE-03	9.037E-04	0.000E+00	0.000E+00	0.000E+00	1.319E-04	0.000E+00
409	0.000E+00	5.155E-03	9.095E-04	0.000E+00	0.300E+00	0.000E+00	1.331E-04	0.000E+00
	0.000E+00	4.382E-03	9.606E-04	0.000E+00	0.000E+00	0.000E+00	1.405E-04	0.000E+00
410	0.000E+00	3.851E-03	3.299E-04	0.000E+00	0.000E+00	0.000E+00	4.860E-05	0.000E+00
411	0.0002+00	3.537E-03	3.352E-04	0.000E+00	0.000E+00	0.000E+00	4.935E-05	0.000E+00
412	0.000E+00	3.181E-03	3.311E-04	0.000E+00	0.000E+00	0.000E+00	4.842E-05	0.000E+00
413	0.000E+00	2.922E-03	7.552E-04	0.000E+00	0.000E+00	0.000E+00	1.100E-04	0.000E+00
414	0.000E+00	2.404E-03	4.937E-04	0.000E+00	0.000E+00	0.000E+00	7.201E-05	0.000E+00
415	0.000E+00	2.017E-03	5.118E-04	0.000E+00	0.000E+00	0.000E+00	7.588E-05	0.000E+00
416	0.000E+00	2.806E-03	5.938E-04	0.000E+00	0.000E+00	0.000E+00	8.657E-05	0.000E+00
417	0.000E+00	2.271E-03	3.896E-04	0.000E+00	0.000E+00	0.000E+00	5.838E-05	0.000E+00
418	0.000E+00	1.990E-03	6.634E-04	0.000E+00	0.000E+00	0.000E+00	9.686E-05	0.000E+00
419	0.000E+00	2.782E-03	4.937E-04	0.000E+00	0.000E+00	0.000E+00	7.224E-05	0.000E+00
420	0.000E+00	2.253E-03	1.197E-03	0.000E+00	0.000E+00	0.000E+00	1.752E-04	0.000E+00
421	0.000E+00	2.100E-03	1.896E-03	0.000E+00	0.000E+00	0.000E+00	2.765E-04	0.000E+00
422	0.000E+00	2.959E-03	2.005E-03	0.000E+00	0.000E+00	0.000E+00	2.930E-04	0.000E+00
423	0.000E+00	2.512E-03	1.905E-03	0.000E+00	0.000E+00	0.000E+00	2.779E-04	0.000E+00
424	0.000E+00	2.257E-03	1.842E-03	0.000E+00	0.000E+00	0.000E+00	2.688E-04	0.000E+00
425	0.000E+00	3.041E-03	2.748E-03	0.000E+00	0.000E+00	0.000E+00	4.003E-04	0.000E+00
426	0.000E+00	2.645E-03	2.644E-03	0.000E+00	0.000E+00	0.000E+00	3.851E-04	0.000E+00
427	0.000E+00	2.346E-03	2.506E-03	0.000E+00	0.000E+00	0.000E+00	3.652E-04	0.000E+00
428	0.000E+00	3.047E-03	2.962E-03	0.000E+00	0.000E+00	0.000E+00	4.317E-04	0.000E+00
429	0.000E+00	2.653E-03	2.826E-03	0.000E+00	0.000E+00	0.000E+00	4.120E-04	0.000E+00
430	0.000E+00	2.403E-03	2.677E-03	0.000E+00	0.000E+00	0.000E+00	3.903E-04	0.000E+00
431	0.000E+00	3.363E-03	2.174E-03	0.000E+00	0.000E+00	0.000E+00	3.175E-04	0.000E+00
432	0.000E+00	2.586E-03	2.060E-03	0.000E+00	0.000E+00	0.000E+00	3.009E-04	
433	0.000E+00	2.335E-03	1.934E-03	0.000E+00	0.000E+00	0.000E+00	2.824E-04	0.000E+00
434	0.000E+00	4.308E-03	1.346E-03	0.000E+00	0.000E+00	0.000E+00		0.000E+00
435	0.000E+00	3.413E-03	1.115E-03	0.000E+00	0.000E+00		1.966E-04	0.000E+00
436	0.000E+00	2.718E-03	9.369E-04	0.000E+00		0.000E+00	1.631E-04	0.000E+00
437	0.000E+00	4.395E-03	9.074E-04	0.000E+00	0.000E+00	0.000E+00	1.372E-04	0.000E+00
438	0.000E+00	3.550E-03	7.716E-04		0.000E+00	0.000E+00	1.325E-04	0.000E+00
439	0.000E+00	3.137E-03	6.233E-04	0.000E+00	0.000E+00	0.000E+00	1.128E-04	0.000E+00
440	0.000E+00	4.117E-03	8.122E-04	0.000E+00	0.000E+00	0.000E+00	9.117E-05	0.000E+00
441	0.000E+00	3.691E-03		0.000E+00	0.000E+00	0.000E+00	1.186E-04	0.000E+00
442	0.000E+00		9.340E-04	0.000E+00	0.000E+00	0.000E+00	1.363E-04	0.000E+00
443	0.000E+00	3.093E-03 4.181E-03	9.187E-04	0.000E+00	0.000E+00	0.000E+00	1.341E-04	0.000E+00
444	0.000E+00	3.538E-03	7.688E-04	0.000E+00	0.000E+00	0.000E+00	1.122E-04	0.000E+00
445	0.000E+00		7.463E-04	0.000E+00	0.000E+00	0.000E+00	1.089E-04	0.000E+00
446	0.000E+00	3.176E-03	6.334E-04	0.000E+00	0.000E+00	0.000E+00	9.254E-05	0.000E+00
447	0.000E+00	3.983E-03	6.538E-04	0.000E+00	0.000E+00	0.000E+00	9.580E-05	0.000E+00
448	0.000E+00	3.489E-03	6.822E-04	0.000E+00	0.000E+00	0.000E+00	9.961E-05	0.00CE+00
449		3.135E-03	6.325E-04	0.000E+00	0.000E+00	0.000E+00	9.236E-05	0.000E+00
450	0.000E+00	3.881E-03	8.275E-04	0.000E+00	0.000E+00	0.000E+00	1.210E-04	0.000E+00
	0.000E+00	3.456E-03	6.979E-04	0.000E+00	0.000E+00	0.000E+00	1.021E-04	0.000E+00
451	0.000E+00	3.167E-03	5.780E-04	0.000E+00	0.000E+00	0.000E+00	8.445E-05	0.000E+00

# RECEPTOR # 34 HAS MAXIMUM ACUTE HAZARD INDEX OF 1.372E-02

NLDEN QUEEN MINING - SOLEDAD MTN PROJECT - ALL RECEPTORS, 1991 MET, PM10 \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* uput File: g:\beest\GQ\gqpmace.dat Cutput File: g:\beest\GQ\GQpmACE.OUT 11/14/96 07:00:20 Page - 137

## \*\*\* ACUTE HAZARD INDEX BY POLLUTANT FOR PEAK RECEPTOR # 34 \*\*\*

POLLUTANT	CONC (ug/m3)	BACKGR (ug/m3)	AEI. (ug/m3)	CV	CNS	IN <b>-</b> AUN	KIDN	LIVER	REPRO	RESP	EYE
ACROL Cu HCHO HCHO Hg Ni Se XYLEN	0.000E+00 4.448E-03 0.000E+00 4.528E+01 0.000E+00 3.050E-03 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	2.500E+00 1.000E+01 3.700E+02 3.300E+03 3.000E+01 1.000E+00 2.000E+00 4.400E+03	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 1.372E-02 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.050E-03 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 4.448E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
			SUM =	0.000E+00	1.372E-02	3.050E-03	0.000E+00	0.000E+00	0.000E+00	4.448E-04	0.000E+00

OLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET. FM10 \* OUTFUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* nput File: g:\beest\GQ\GQpmaCE.OUT 11/14/96 07:00:20 Page - 138

<sup>\*\*\*</sup> ACUTE HAZARD INDEX BY SOURCE FOR PEAK RECEPTOR # 34 \*\*\*

	POLLUTANT	ACROL AEL	(ug/m3) =	2.500E+00	BACKGR.	(ug/m3) =	0.000E+00		
		CA	CNS	IMMUN	KIDN	LIVER	REPRO	RESP	EYE
SOURCE #	1 2	0.000E+00	0.000E+00 0.000E+00		0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	3	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	5	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00
SOURCE #	6 7	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00
Source #	8 9	0.000E+00 0.000E+00							
SOURCE #	10 11	0.000E+00 0.000E+00							
SOURCE #	12 13	0.000E+00 0.000E+00							
SOURCE #	14 15	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	16 17	0.000E+00 0.000E+00							
SOURCE #	18 19	0.000E+00 0.000E+00							
SCURCE #	20	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	21 22	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
Source #	23 24	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #		0.000E+00 0.000E+00							
SOURCE #		0.000E+00 0.000E+00							
SOURCE #		0.000E+00 0.000E+00							
SOURCE #		0.000E+00 0.000E+00							
SOURCE #	33	0.000E+00 0.000E+00							
SOURCE #	3.5	0.000E+00 0.000E+00							
SOURCE #	37	0.000E+00 0.000E+00							
SOURCE #	<b>∤</b> 39	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE 1	41	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE :	¥ 43	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00
SOURCE :	¥ 45	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 00+3000.0	0.000E+00	0.000E+00 0.000E+00
SOURCE :	∲ 46 SUM =	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
	POLLUTANT		(ug/m3) =	1.000E+01		(ug/m3) =	0.000E+00		
					KIDN	LIVER	REPRO	RESP	EYE
SOURCE	<b>#</b> 1	0.000E+00	CNS 0.000E+00	IMMUN 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE	<del>*</del> 2.	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.244E-09 1.239E-07	0.000E+00 0.000E+00
SOURCE	<b>*</b> 4	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.260E-07 5.274E-08	0.000E+00 0.000E+00
SOURCE	∌ 5 ∌ 6	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.121E-08 0.000E+00	0.000E+00 0.000E+00
SOURCE	# 7 # 8	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.229E-06	0.000E+00
	∲ 9 ∳ 10	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.382E-07 1.844E-04	0.000E+00 0.000E+00
	# 11 # 12	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.034E-04 1.425E-04	0.000E+00 0.000E+00
SOURCE	<b>非 13</b> <b>非 14</b>	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 1.066E-08	0.000E+00 0.000E+00
SOURCE	# 15 # 16	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.062E-06 1.082E-06	0.000E+00 0.000E+00
	# 17 # 18	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.5262-07 6.969E-07	0.000E+00 0.000E+00
	# 19 # 20	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 9.111E-10	0.000E+00 0.000E+00
SOURCE SOURCE	# 21	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.200E-06 1.218E-06	0.000E+00 0.000E+00
SOURCE	# 22 # 23	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.895E-07 8.082E-07	0.000E+00 0.000E+00
SOURCE	≠ 24 ≠ 25 ≠ 26	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 1.688E-10	0.000E+00 0.000E+00
SOURCE SOURCE	<b>#</b> 27	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	4.883E-08 4.783E-07	0.000E+00 0.000E+00
SOURCE SOURCE	→ 28 → 29	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	6.946E-07 0.000E+00	0.000E+00 0.000E+00
SOURCE SOURCE	<b>∌</b> 31	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00		1.139E-10	0.000E+00
SOURCE SOURCE	<b>∌</b> 33	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E÷00	0.000E+00	0.000E+00	3.295E-08 3.226E-07	0.000E+00 0.000E+00
SOURCE	. <b>∳</b> 35	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.687E-07 0.000E+00	0.000E+00 0.000E+00
SOURCE	# 36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.668E-11	0.000E+00

DURCE #	37	0.000E+00	0.000E+00	0.000E+00	0.000£+00	0.000E+00	0.000E+00	1.641E-08	0.000E+00
DURCE #	38 39	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.607E-07 2.334E-07	0.000E+00 0.000E+00
DURCE #	40	0.000E+00							
DURCE #	41 42	0.000E+00 0.000E+00							
DURCE #	43	0.000E+00							
DURCE #	44 45	0.000E+00 0.000E+00	0.000E+00						
DURCE #	46	0.000E+00	0.000E+00 0.000E+00						
	SUM =	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.448E-04	0.000E+00
	POLLUTANT E	LEA OED	(ug/m3) =	3.700E+02	BACKGR.	(ug/m3) =	0.000E+00		
		CA	CNS	IMMUN	KIDN	LIVER	REPRO	RESP	EYE
OURCE #	1	0.000E+00							
OURCE #	2 3	0.000E+00 0.000E+00							
OURCE #	4 5	0.000E+00							
OURCE #	6	0.000E+00 0.000E+00							
OURCE #	7 8	0.000E+00							
DURCE #	9	0.000E+00 0.000E+00							
OURCE #	10	0.000E+00							
OURCE #	11 12	0.000E+00 0.000E+00							
OURCE #	13 14	0.000E+00 0.000E+00	0.000E+00						
OURCE #	15	0.000E+00	0.000E+00 0.000E+00						
OURCE #	16 17	0.000E+00 0.000E+00	0.000E+00						
OURCE #	18	0.000E+00	0.000E+00 0.000E+00						
OURCE #	19 20	0.000E+00 0.000E+00	0.000E+00						
OURCE #	21	0.000E+00	0.000E+00 0.000E+00						
OURCE #	22 23	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
OURCE #	24	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
OURCE #	25 26	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
OURCE #	27	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
OURCE #	28 29	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
OURCE #	30	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
OURCE #	31 32	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
OURCE #	33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
OURCE #	34 35	0.000E+00 0.000E+00	0.000E+00						
OURCE #	36	0.000E+00	0.000E+00 0.000E+00						
OURCE #	37 38	0.000E+00 0.000E+00							
OURCE #		0.000E+00							
OURCE #		0.000E+00 0.000E+00							
OURCE #		0.000E+00							
COURCE #	44	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
COURCE #		0.000E+00							
NORUE F	-	0.000E+00							
	SUM =	0.000E+00							
	POLLUTANT	HCN AFT	(ug/m3) =	3.300E+03	BACKCE	(ug/m3) =	0 0005+00		
							0.000E+00		
		CA	CNS	IMMUN	KIDN	LIVER	REPRO	RESP	EYE
SOURCE #		0.000E+00							
SOURCE #		0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #		0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	. 9	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	12	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
SOURCE #	13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	15	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE :	16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE :		0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE	19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE :	<b>}</b> 21	0.000E+00 0.000E+00	0.000E+00						
SOURCE :	<del>)</del> 22	0.000E+00	0.000E+00 0.000E+00						
SOURCE 1	r 43	0.000E+00							

SOURCE # 2 SOURCE # 2 SOURCE # 2 SOURCE # 3 SOURCE # 4 SOURCE # 5 SOURCE # 4 SOURCE # 5 SOURCE # 4 SOURCE # 5	25 26 27 28 30 31 32 33 33 34 35 36 37 38 39 40 41 42 43 44 45 46 50 50 50 50 50 50 50 50 50 50	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.047E-02 3.248E-03 0.000E+00 0.000E+00 0.000E+00 1.372E-02 (ug/m3) =	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00
<b>~-</b> -		CA	<i>Сис</i>	IMMUN	KIDN	LIVER	REPRO	RESP	EYE
COUDCE 4	1	_	CNS				0.000E+00		
SOURCE #	1 2 3	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00
Source #	3	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE # SOURCE #	5 6	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	7 8	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	9 10	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	11	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	12 13	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	14 15	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	17 18	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	19 20	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	21	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE # SOURCE #	22 23	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	24	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	25 26	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
	27 28	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	30 31	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	32 33	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	34 35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	36	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Source #	37 38	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	39 40	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	41	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	42 43	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	44 45	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	46	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PC	OLLUTANT N	Ni AE	(ug/m3) =	1.000E+00	BACKGR.	(ug/m3) =	0.000E+00		
<b></b> -		CV	СЖS	IMMUN	KIDN	LIVER	REPRO	RESP	EYE
SOURCE #	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	2 3	0.000E+00	0.000E+00	4.524E-09 4.507E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	4	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.584E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE # SOURCE #	5 6	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.917E-07 2.952E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
Source # Source #	7 8	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 2.919E-05	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	9	0.000E+00	0.000E+00	2.335E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Source #	10	0.000E+00	0.000E+00	1.273E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SOURCE # # # # # # # # # # # # # # # # # # #	11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 86 87 87 87 87 87 87 87 87 87 87	0.000E+00 0.000E+00	0.000E+00 0.000E+00	7.139E-04 9.836E-04 0.000E+00 7.363E-08 7.332E-06 3.123E-06 4.810E-06 0.000E+00 2.900E-09 3.818E-06 1.558E-06 2.573E-06 0.000E+00 1.165E-09 3.370E-07 3.301E-06 4.795E-06 0.000E+00 1.048E-07 1.027E-06 1.048E-07 1.027E-06 1.048E-07 1.027E-06 0.000E+00 1.804E-10 5.220E-08 5.112E-07 7.426E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
	******	CV	CNS	IMMUN	KIDN		REPRO	RESP	EWE
SOURCE #	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	LIVER 0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE ## SOURCE	28 29 31 31 32 33 34 35 36 37 38 39 41 42 43 44 45	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00
	POLLUTANT	XYLEN AI	I (ug/m3) =	4.400E+0	3 BACKGR	. (ug/m3) =	0.000E+00		

#### CNS KIDN LIVER REPRO RESP EYE CV DAGIN SOURCE # SOURCE # SOURCE # SOURCE # SOURCE # 0.000E+00 0.000E+00 0.000E+00 0.000E+00 123 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.0002+00 0.000E+00 0 000E+00 0.0002+00 0.000E+00 0.000E+00 0 000F+00 0 000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 SOURCE # SOURCE # SOURCE # SOURCE # 0 000E+00 0.0007+00 0.0002+00 GOOF+GO 0 000E+00 0 0007+00 0.000E+00 0.0002+00 0.000E+00 0 000E+00 0 000E+00 0 000E+00 0.000E+00 0.000E+00 10 0.000E+00 11 12 0.000E+00 SOURCE # 0.000E+00 0.000E+00 0.000E+00 0 000E+00 000E+00 0 000E+00 0.000E+00 0.0002+00 0 000E+00 0.000E+00 0.000E+00 0.000E+00 0.0002+00 0.000E+00 0.000E+00 0.000E+00 SOURCE # 0.000E+00 0 000E+00 0.000E+00 0.000E+00 0.000E+00 0 000E+00 0.000E+00 0.000E+00 14 15 16 17 18 SOURCE 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 SOURCE # 0.000E+00 0 0007+00 0.0002+00 0 000E+00 0 000E+00 0.0002+00 0.007+00 0 0002+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 .000E+00 0.000E+00 0.000E+00 0.000E+00 0 000E+00 0.000E+00 0.000E+00 0.000E+00 0 000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 19 20 21 22 23 24 25 26 27 28 0.000E+00 0.000E+00 0.000E+00 .000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.00GE+00 0.000E+00 0.000E+00 SOURCE # 0.0002+00 .000E+00 0.000E+00 .000E+00 0 0007+00 0.000E+00 0.0002+00 000E+00 0.000E+00 0.0002+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0 0002+00 0.000E+00 000E+00 0.000E+00 0 DOOP+OR 0.000E+00 000E+00 0 000F+00 0.000E+00 29 30 0.000E+00 0.000E+00 0.00GE+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 SOURCE # SOURCE # SOURCE # 31 32 33 0.000E+00 0.000E+00 0.000E+00 0.000E+00 .000E+00 .000E+00 0.000E+00 0.0000+00 0.000E+00 0.000E+00 0.000E+00 SOURCE # 0.000E+00 0.000E+00 35 0.000E+00 0.000E+00 000E+00 0.000E+00 0.000E+00 0.000E+00 36 0.000E+00 0 000E+00 0.0002+00 0 000E+00 0 000E+00 38 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 39 0.000E+00 0 000E+00 0.000E+00 0.000E+00 000E+00 0.000E+00 0 .000E+00 0.000E+00 40 0.000E+00 .000E+00 0.000E+00 0.000E+00 41 42 43 0 000E+00 0 000E+00 0 000E+00 0.000E+00 0 000E+00 0.0002+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 .000E+00 .000E+00 0.000E+00 0.00CE+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 SOURCE 4 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 SUM = 0.000E+00 0.000E+00 0.000E+00 0 000E+00 0.000E+00 0.0002+00 0 0005+00 0 0005+00

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET, FM10 \* CUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \*
Input File: g:\beest\GQ\GQpmaCE.CUT 11/14/96 07:00:20 Page - 147

#### \*\*\* MAXIMUM CERONIC EXPOSURE BY POLLUTANT FROM ALL SOURCES \*\*\*

	*****	******	*****	***PATHWA	Y DOSE (m	z/kz-d)*	*****	*****	*******					
POL.	INHALE	DERMAL.	SOIL	WATER					ACCEPTABL	INH CONC	BACKGR	AEI.	HAZARD	REC.
									ORAL DOSE		(ug/m3)	(ug/m3)	INDEX	
												0 ,		
ACETA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E+00	0.00E+00	a
ACROL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	ā
As			0.00E+00							5.45E-04	0.00E+00	5.00E-01	1.09E-03	69
BENZE			0.00E+00							0.00E+00	0.00E+00	7.10E+01	0.00E+00	Ö
Be	8.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-03	2.82E-05	0.00E+00	4.80E-03	5.88E-03	42
Cd	5.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-03	2.05E-05	0.00E+00	3.50E+00	5.85E-06	68
Cr			0.00E+00							3.31E-06	0.00E+00	2.00E-03	1.66E-03	69
Cu			0.00E+00							4.57E-05	0.00E+00	2.40E+00	1.91E-05	69
ECHO	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E+00	0.00E+00	a
ECN	9.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E+00	0.00E+00	7.00E+01	4.73E-02	37
Pb	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04	9.36E-05	0.00E+00	1.50E+00	6.24E-05	69
Man	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-04	0.00E+00	4.00E-01	1.29E-03	69
Ħg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	3.00E-01	0.00E+00	0
Ni	4.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	2.40E-01	6.33E-05	69
NAPTH	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-03	0.00E+00	0.00E+00	1.40E+01	0.00E+00	ò
Se	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-01	0.00E+00	0
TOL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+02	0.00E+00	Q
XYLEN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E+02	0.00E+00	Ö
Zn	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-05	0.00E+00	3.50E+01	2.00E-06	69
													_	
GOLDEN	QUEEN MI	NING - SO	LEDAD MIN	PROJECT ·	- ALL REC	EPTORS, 1	991 MET,	PM10	→ CUTPU	T OF AMI/	SBCAPCD A	CE2588 MOI	DEL VERS.	3288 *

Input File: g:\beest\GQ\gqpmace.dat

Output File: g:\beest\GQ\GQpmaCE.OUT

11/14/96

07:00:20

Page - 148

# \*\*\* RECEPTOR CHRONIC HAZARD INDICES BY TOXICOLOGICAL ENDPOINTS \*\*\* FROM ALL SOURCES AND POLLUTANTS

RECEPTOR CA CIS INT:UN KIDN LIVER REPRO RESP SKIN 7.023E-05 1.6862-03 7.795E-06 1.096E-04 1.014E-04 3.907E-06 6.491E-04 6.620E-05

2	1.051E-04	1.792E-03	1.153E-05	1.630E-04	1.510E-04	5.747E-06	8.963E-04	9.921E-05
3	1.044E-04	1.780E-03	1.145E-05	1.619E-04	1.499E-04	5.701E-06	8.859E-04	9.853E-05
4	1.357E-04	2.628E-03	1.496E-05	2.110E-04	1.953E-04	7.470E-06	1.196E-03	1.280E-04
5	1.369E-04	2.585E-03	1.509E-05	2.129E-04	1.971E-04	7.539E-06	1.208E-03	1.292E-04
6	1.244E-04	2.337E-03	1.373E-05	1.935E-04	1.791E-04	6.864E-06	1.110E-03	1.173E-04
7	1.098E-04	1.678E~03	1.211E-05	1.707E-04	1.581E-04	6.046E-06	9.684E-04	1.036E-04
8	1.105E-04	1.683E-03	1.229E-05	1.725E-04	1.596E-04	6.162E-06	1.032E-03	1.042E-04
9	1.149E-04	1.742E-03	1.282E-05		1.662E-04	6.441E-06	1.100E-03	1.082E-04
				1.795E-04				
10	1.457E-04	5.469E-03	1.608E-05	2.268E-04	2.100E-04	8.040E-06	1.299E-03	1.374E-04
11	5.941E-05	1.256E-03	6.573E-06	9.250E-05	8.564E-05	3.289E-06	5.379E-04	5.601E-05
12	2.579E-04	7.826E-03	2.870E-05	4.026E-04	3.726E-04	1.440E-05	2.426E-03	2.431E-04
13	1.120E-04	6.031E-03	1.283E-05	1.773E-04	1.639E-04	6.528E-06	1.257E-03	1.053E-04
14	1.129E-04	6.222E-03	1.294E-05	1.788E-04	1.653E-04	6.582E-06	1.268E-03	1.061E-04
15	1.100E-04	5.912E-03	1.261E-05	1.742E-04	1.611E-04	6.419E-06	1.239E-03	1.034E-04
16	1.250E-04	7.997E-03	1.431E-05	1.978E-04	1.829E-04	7.278E-06	1.398E-03	1.175E-04
17	6.577E-05	1.303E-03	7.296E-06	1.025E-04	9.490E-05	3.655E-06	6.056E-04	6.200E-05
18	9.925E-05	2.746E-03	1.111E-05	1.554E-04	1.438E-04	5.590E-06	9.682E-04	9.349E-05
19	9.857E-05	3.396E-03	1.118E-05	1.554E-04	1.437E-04	5.663E-06	1.045E-03	9.273E-05
<b>2</b> 0	1.383E-04	6.022E-03	1.564E-05	2.176E-04	2.012E-04	7.908E-06	1.437E-03	1.302E-04
21								9.491E-05
	1.010E-04	1.366E-02	1.167E-05	1.608E-04	1.486E-04	5.956E-06	1.183E-03	
22	9.420E-05	1.301E-02	1.101E-05	1.509E-04	1.393E-04	5.650E-06	1.175E-03	8.839E-05
23	9.390E-05	1.285E-02	1.101E-05	1.506E-04	1.391E-04	5.657E-06	1.190E-03	8.808E-05
24	9.328E-05	1.290E-02	1.091E-05	1.494E-04	1.380E-04	5.603E-06	1.170E-03	8.751E-05
25	9.398E-05	1.395E-02	1.094E-05	1.501E-04	1.387E-04	5.606 <b>E</b> -06	1.150E-03	8.821E-05
26	9.945E-05	1.622E-02	1.128E-05	1.568E-04	1.450E-04	5.710E-06	1.052E-03	9.357E-05
27	1.018E-04	9.613E-03	1.142E-05	1.596E-04	1.477E-04	5.752E-06	1.008E-03	9.586E-05
28	1.087E-04	7.947E-03	1.216E-05	1.703E-04	1.576E-04	6.119E-06	1.057E-03	1.024E-04
29	1.380E-04	6.899E-03	1.552E-05	2.165E-04	2.003E-04	7.824E-06	1.387E-03	1.299E-04
30	1.462E-04	6.810E-03	1.649E-05	2.297E-04	2.125E-04	8.331E-06	1.500E-03	1.376E-04
31	1.529E-04	7.247E-03	1.732E-05	2.407E-04	2.226E-04	8.763E-06	1.603E-03	1.439E-04
32	1.534E-04	8.693E-03	1.745E-05	2.420E-04	2.238E-04	8.848E-06	1.651E-03	1.443E-04
33								
	1.699E-04	3.056E-02	1.941E-05	2.686E-04	2.483E-04	9.857E-06	1.872E-03	1.598E-04
34	1.876E-04	3.257E-02	2.148E-05	2.970E-04	2.745E-04	1.092E-05	2.096E-03	1.764E-04
35	1.999E-04	3.228E-02	2.291E-05	3.166E-04	2.926E-04	1.165E-05	2.242E-03	1.880E-04
36	2.087E-04	3.082E-02	2.383E-05	3.298E-04	3.049E-04	1.210E-05	2.292E-03	1.963E-04
37	2.095E-04	2.841E-02	2.383E-05	3.302E-04	3.054E-04	1.208E-05	2.257E-03	1.970E-04
38	2.033E-04	1.518E-02	2.302E-05	3.197E-04	2.957E-04	1.164E-05	2.123E-03	1.914E-04
39	2.481E-04	2.878E-02	2.818E-05	3.908E-04	3.614E-04	1.428E-05	2.648E-03	2.334E-04
40	3.142E-04	3.582E-02	3.582E-05	4.958E-04	4.585E-04	1.818E-05	3.420E-03	2.955E-04
41	4.285E-04	3.203E-02	4.961E-05	6.859E-04	6.339E-04	2.535E-05	5.089E-03	4.024E-04
	6.540E-04	2.148E-02					8.269E-03	6.135E-04
42			7.665E-05	1.048E-03	9.678E-04	3.938E-05		
43	5.551E-04	1.494E-02	6.386E-05	8.819E-04	8.152E-04	3.254E-05	6.368E-03	5.216E-04
44	5.088E-04	9.836E-03	5.534E-05	7.878E-04	7.299E-04	2.746E-05	4.081E-03	4.805E-04
45	4.927E-04	6.829E-03	5.229E-05	7.534E-04	6.987E-04	2.564E-05	3.245E-03	4.662E-04
46	3.111E-04	4.880E-03	3.336E-05	4.779E-04	4.430E-04	1.644E-05	2.237E-03	2.941E-04
47	4.572E-04	5.483E-03	4.983E-05	7.087E-04	6.565E-04	2.476E-05	3.727E-03	4.316E-04
48	5.978E-04	6.166E-03	6.298E-05	9.117E-04	8.458E-04	3.076E-05	3.679E-03	5.660E-04
49	7.073E-04	6.607E-03	7.449E-05	1.079E-03	1.001E-03	3.638E-05	4.338E-03	6.697E-04
50	7.583E-04	6.542E-03	8.017E-05	1.159E-03	1.075E-03	3.923E-05	4.822E-03	7.178E-04
51	3.987E-04	5.059E-03	4.325E-05	6.178E-04	5.725E-04	2.144E-05	3.137E-03	3.766E-04
52	2.649E-04	4.054E-03	2.893E-05	4.110E-04	3.807E-04	1.439E-05	2.191E-03	2.501E-04
53	1.924E-04	3.301E-03	2.105E-05	2.984E-04		1.048E-05	1.615E-03	1.815E-04
					2.764E-04			
54	1.553E-04	2.771E-03	1.791E-05	2.478E-04	2.290E-04	9.135E-06	1.805E-03	1.459E-04
55	1.673E-04	2.951E-03	1.878E-05	2.637E-04	2.440E-04	9.463E-06	1.665E-03	1.575E-04
56	1.817E-04	3.090E-03	2.047E-05	2.870E-04	2.656E-04	1.033E-05	1.842E-03	1.711E-04
57	1.918E-04	3.104E-03	2.105E-05	2.977E-04	2.757E-04	1.049E-05	1.645E-03	1.809E-04
58	2.403E-04	3.567E-03	2.647E-05	3.738E-04	3.462E-04	1.322E-05	2.115E-03	2.266E-04
59	2.987E-04	4.040E-03	3.437E-05	4.755E-04	4.396E-04	1.751E-05	3.429E-03	2.807E-04
60	3.577E-04	4.403E-03	4.121E-05	5.690E-04	5.259E-04	2.101E-05	4.13 <i>5</i> E-03	3.361E-04
61	4.324E-04	4.708E-03	4.959E-05	6.859E-04	6.340E-04	2.524E-05	4.877E-03	4.064E-04
62	5.102E-04	5.072E-03	5.851E-05	8.090E-04	7.479E-04	2.977E-05	5.747E-03	4.795E-04
63	5.869E-04	5.528E-03	6.787E-05	9.344E-04	8.635E-04	3.466E-05	6.920E-03	5.512E-04
64	5.398E-04	5.125E-03	6.246E-05	8.609E-04	7.956E-04	3.191E-05	6.386E-03	5.069E-04
65	6.364E-04	5.647E-03	7.265E-05	1.007E-03	9.307E-04	3.688E-05	6.984E-03	5.984E-04
66	7.912E-04	6.348E~03	8.881E-05		1.149E-03	4.474E-05	7.857E-03	7.451E-04
				1.242E-03				
67	1.078E-03	7.536E-03	1.179E-04	1.672E-03	1.549E-03	5.862E-05	8.959E-03	1.018E-03
68	1.153E-03	8.276E-03	1.251E-04	1.784E-03	1.653E-03	6.201E-05	9.076E-03	1.089E-03
69	1.154E-03	8.881E-03	1.257E-04	1.787E-03	1.655E-03	6.241E-05	9.350E-03	1.090E-03
70	1.127E-03	9.215E-03	1.230E-04	1.747E-03	1.618E-03	6.118E-05	9.304E-03	1.064E-03
71	7.305E-04	7.246E-03	8.102E-05	1.141E-03	1.056E-03	4.059E-05	6.719E-03	6.887E-04
72 73	5.326E-04	5.843E-03	6.003E-05	8.380E-04	7.752E-04	3.030E-05	5.423E-03	5.014E-04
	4.042E-04	4.803E-03	4.477E-05	6.313E-04	5.844E-04	2.242E-05	3.688E-03	3.810E-04
74	3.359E-04	4.140E-03	3.867E-05	5.338E-04	4.934E-04	1.971E-05	3.86 <i>5</i> E-03	3.156E-04
75	3.096E-04	4.145E-03	3.466E-05	4.875E-04	4.512E-04	1.744E-05	3.028E-03	2.916E-04
76	2.787E-04	4.242E-03	3.059E-05	4.331E-04	4.011E-04	1.525E-05	2.392E-03	2.629E-04
77	2.406E-04	4.193E-03	2.640E-05	3.741E-04	3.464E-04	1.316E-05	2.057E-03	2.271E-04
78	2.062E-04	4.040E-03	2.339E-05	3.270E-04	3.024E-04	1.184E-05	2.183E-03	1.940E-04
79	2.372E-04	4.604E-03	2.747E-05	3.794E-04	3.506E-04	1.404E-05	2.819E-03	2.227E-04
80	2.631E-04	5.278E-03	2.878E-05	4.085E-04	3.784E-04	1.432E-05	2.200E-03	2.483E-04
81	3.079E-04	6.230E-03						2.908E-04
			3.339E-05	4.761E-04	4.411E-04	1.654E-05	2.413E-03	
82	3.617E-04	7.531E-03	3.884E-05	5.562E-04	5.156E-04	1.915E-05	2.626E-03	3.419E-04
83	3.981E-04	9.279E-03	4.265E-05	6.116E-04	5.669E-04	2.101E-05	2.838E-03	3.764E-04
84	4.318E-04	1.226E-02	4.620E-05	6.629E-04	6.146E-04	2.274E-05	3.044E-03	4.084E-04
85	4.596E-04	1.908E-02	4.913E-05	7.053E-04	6.539E-04	2.417E-05	3.210E-03	4.347E-04
86	4.458E-04	4.234E-02	4.782E-05	6.853E-04	6.353E-04	2.357E-05	3.210E-03	4.215E-04
87	2.351E-04	4.784E-02	2.590E-05	3.657E-04	3.386E-04	1.293E-05	2.066E-03	2.217E-04
88	1.566E-04	3.008E-02	1.755E+05	2.456E-04	2.272E-04	8.834E-06	1.539E-03	1.475E-04
89	1.140E-04	1.134E-02	1.293E-05	1.799E-04	1.663E-04	6.548E-06	1.207E-03	1.073E-04
90	1.070E-04	1.307E-02	1.224E-05	1.695E-04	1.567E-04	6.221E-06	1.189E-03	1.006E-04
91	5.129E-04	5.639E-03	5.563E-05	7.916E-04	7.335E-04	2.757E-05	4.029E-03	4.844E-04
92	4.967E-04	5.425E-03	5.396E-05	7.672E-04	7.108E-04	2.676E-05	3.947E-03	4.691E-04
93	4.779E-04			7.074E-04				
		5.168E-03	5.205E-05	7.390E-04	6.846E-04	2.585E-05	3.874E-03	4.512E-04
94	4.581E-04	4.905E-03	5.016E-05	7.103E-04	6.579E-04	2.497E-05	3.856E-03	4.323E-04
95	4.389E-04	4.673E-03	4.823E-05	6.817E-04	6.313E-04	2.406E-05	3.790E-03	4.141E-04
96 07	4.215E-04	4.465E-03	4.640E-05	6.550E-04	6.065E-04	2.316E-05	3.685E-03	3.976E-04
97	4.050E-04	4.268E-03	4.489E-05	6.315E-04	5.846E-04	2.248E-05	3.709E-03	3.818E-04
98	3.811E-04	4.063E-03	4.216E-05	5.934E-04	5.493E-04	2.109E-05	3.443E-03	3.594E-04

99	3.611E-04	3.896E-03	4.046E-05	5.661E-04	5.238E-04	2.037E-05	3.549E-03	3.401E-04
100	3.382E-04	3.736E-03	3.801E-05	5.309E-04	4.912E-04	1.916E-05	3.386E-03	3.185E-04
101	3.194E-04	3.614E-03	3.649E-05	5.059E-04	4.678E-04	1.854E-05	3.526E-03	3.003E-04
102	3.036E-04	3.521E-03		4.870E-04	4.498E-04	1.833E-05	3.877E-03	2.847E-04
103	5.859E-04	5.993E-03		9.040E-04	8.376E-04	3.145E-05		5.534E-04
104	5.626E-04	5.725E-03		8.692E-04	8.053E-04	3.032E-05		5.313E-04
105	5.350E-04	5.424E-03		8.281E-04	7.671E-04	2.900E-05		5.051E-04
106	5.079E-04	5.135E-03	5.578E-05	7.888E-04	7.305E-04	2.781E-05	4.368E-03	4.792E-04
107	4.834E-04	4.889E-03		7.518E-04	6.962E-04	2.660E-05	4.257E-03	4.560E-04
108	4.596E-04	4.667E-03	5.085E-05	7.161E-04	6.630E-04	2.545E-05	4.161E-03	4.333E-04
109	4.349E-04	4.448E-03	4.846E-05	6.801E-04	6.294E-04	2.433E-05	4.123E-03	4.099E-04
110	4.072E-04	4.235E-03	4.577E-05	6.396E-04	5.918E-04	2.307E-05	4.078E-03	3.834E-04
111	3.798E-04	4.039E-03	4.287E-05	5.977E-04	5.529E-04	2.165E-05	3.901E-03	3.575E-04
112	3.550E-04	3.877E-03	4.040E-05	5.611E-04	5.189E-04	2.048E-05	3.828E-03	3.339E-04
113	3.319E-04	3.745E-03	3.808E-05	5.269E-04	4.871E-04	1.938E-05	3.747E-03	3.120E-04
114	3.142E-04	3.648E-03	3.684E-05	5.038E-04	4.653E-04	1.893E-05	3.983E-03	2.947E-04
115	6.836E-04	6.387E-03	7.401E-05	1.055E-03	9.773E-04	3.664E-05	5.294E-03	6.458E-04
116	6.482E-04	6.066E-03	7.047E-05	1.002E-03	9.285E-04	3.496E-05	5.181E-03	6.121E-04
117	6.058E-04	5.718E-03	6.621E-05	9.388E-04	8.696E-04	3.293E-05	5.034E-03	5.718E-04
118	5.678E-04	5.400E-03	6.259E-05	8.835E-04	8.181E-04	3.126E-05	5.012E-03	5.356E-04
119	5.361E-04	5.154E-03	5.985E-05	8.409E-04	7.782E-04	3.007E-05	5.148E-03	5.051E-04
120	4.986E-04	4.881E-03	`5.569E-05	7.808E-04	7.226E-04	2.799E-05	4.799E-03	4.697E-04
121	4.633 <b>E</b> -04	4.624E-03	5.194E-05	7.267E-04	6.724E-04	2.615E-05	4.569E-03	4.363E-04
122	4.307E-04	4.396E-03	4.890E-05	6.802E-04	6.291E-04	2.477E-05	4.583E-03	4.052E-04
123	3.999E-04	4.194E-03	4.565E-05	6.332E-04	5.855E-04	2.318E-05	4.390E-03	3.760E-04
124	3.774E-04	4.053E-03	4.416E-05	6.053E-04	5.591E-04	2.267E-05	4.735E-03	3.541E-04
125	3.512E-04	3.913E-03	4.097E-05	5.617E-04	5.189E-04	2.101E-05	4.337E-03	3.296E-04
126	3.263E-04	3.796E-03	3.812E-05	5.223E-04	4.825E-04	1.956E-05	4.058E-03	3.062E-04
127	8.217E-04	6.868E-03	8.883E-05	1.267E-03	1.175E-03	4.395E-05	6.293E-03	7.763E-04
			8.331E-05	1.185E-03	1.098E-03	4.133E-05	6.107E-03	7.241E-04
128	7.668E-04	6.484E-03	7.648E-05	1.082E-03	1.002E-03	3.812E-05	5.968E-03	6.575E-04
129	6.969E-04	6.068E-03		1.0025-03				
130	6.459E-04	5.730E-03	7.283E-05	1.016E-03	9.398E-04	3.677E-05	6.593E-03	6.081E-04
131	5.914E-04	5.406E-03	6.725E-05	9.338E-04	8.635E-04	3.408E-05	6.348E-03	5.563E-04
132	5.405E-04	5.114E-03	6.19 <b>0E-</b> 05	8.577E-04	7.930E-04	3.147E-05	6.042E-03	5.081E-04
133	4.911E-04	4.804E-03	5.563E-05	7.746E-04	7.165E-04	2.815E-05	5.153E-03	4.621E-04
134	4.581E-04	4.583E-03	5.296E-05	7.294E-04	6.741E-04	2.705E-05	5.397E-03	4.302E-04
135	4.258E-04	4.382E-03	4.946E-05	6.796E-04	6.279E-04	2.531E-05	5.141E-03	3.998E-04
136	3.973E-04	4.222E-03	4.606E-05	6.334E-04	5.853E-04	2.355E-05	4.746E-03	3.731E-04
137	3.681E-04	4.086E-03	4.277E-05	5.875E-04	5.429E-04	2.189E-05	4.455E-03	3.455E-04
138	3.416E-04	3.965E-03	3.979E-05	5.459E-04	5.043E-04	2.039E-05	4.187E-03	3.206E-04
					1.503E-03	5.657E-05	8.454E-03	9.883E-04
139	1.047E-03	7.558E-03	1.139E-04	1.622E-03				
140	9.627E-04	7.088E-03	1.057E-04	1.496E-03	1.385E-03	5.271E-05	8.275E-03	9.084E-04
141	8.263E-04	6.512E-03	9.203E-05	1.292E-03	1.196E-03	4.619E-05	7.809E-03	7.787E-04
142	7.137E-04	6.007E-03	8.058E-05	1.123E-03	1.039E-03	4.070E-05	7.342E-03	6.718E-04
143	6.353E-04	5.633E-03	7.238E-05	1.004E-03	9.283E-04	3.672E-05	6.896E-03	5.974E-04
144	5.729E-04	5.312E-03	6.583E-05	9.092E-04	8.405E-04	3.353E-05	6.528E-03	5.383E-04
145	5.229E-04	5.018E-03	6.030E-05	8.315E-04	7.685E-04	3.076E-05	6.073E-03	4.913E-04
146	4.836E-04	4.773E-03	5.595E-05	7.702E-04	7.117E-04	2.858E-05	5.719E-03	4.542E-04
147	4.486E-04	4.579E-03	5.190E-05	7.145E-04	6.603E-04	2.651E-05	5.300E-03	4.213E-04
148	4.163E-04	4.420E-03	4.816E-05	6.630E-04	6.127E-04	2.460E-05	4.919E-03	3.910E-04
149	3.872E-04	4.280E-03	4.482E-05	6.168E-04	5.700E-04	2.290E-05	4.591E-03	3.636E-04
	3.587E-04	4.153E-03	4.154E-05	5.716E-04	5.282E-04	2.123E-05	4.263E-03	3.369E-04
150								
151	5.521E-04	5.240E-03	6.387E-05	8.791E-04	8.124E-04	3.262E-05	6.523E-03	5.185E-04
152	5.127E-04	5.006E-03	5.911E-05	8.152E-04	7.534E-04	3.015E-05	5.948E-03	4.817E-04
153	4.774 <u>E</u> −04	4.816E-03	5.493E-05	7.583E-04	7.009E-04	2.799E-05	5.479E-03	4.486E-04
154	4.371E-04	4.644E-03	5.063E-05	6.968E-04	6.439E-04	2.588E-05	5.200E-03	4.105E-04
155	4.140E-04	4.507E-03	4.764E-05	6.576E-04	6.078E-04	2.428E-05	4.755E-03	3.890E-04
156	3.791E-04	4.366E-03	4.374E-05	6.031E-04	5.574E-04	2.232E-05	4.416E-03	3.561E-04
157	2.872E-04	3.713E-03	3.336E-05	4.584E-04	4.235E-04	1.707E-05	3.465E-03	2.697E-04
158	2.945E-04	3.697E-03	3.389E-05	4.680E-04	4.326E-04	1.727E-05	3.384E-03	2.767E-04
159	2.869E-04	3.797E-03	3.148E-05	4.454E-04	4.125E-04	1.569E-05	2.448E-03	2.708E-04
160	2.792E-04	3.811E-03	3.042E-05	4.317E-04	3.999E-04	1.511E-05	2.270E-03	2.636E-04
161	2.653E-04	3.623E-03	2.890E-05	4.102E-04	3.800E-04	1.436E-05	2.155E-03	2.505E-04
	2.525E-04	3.358E-03	2.757E-05	3.908E-04	3.620E-04	1.371E-05	2.086E-03	2.383E-04
162		3.064E-03	2./3/5-03		3.484E-04	1.325E-05	2.057E-03	2.290E-04
163	2.426E-04		2.659E-05	3.761E-04		1.3235-03		2.132E-04
164	2.260E-04	2.814E-03	2.493E-05	3.514E-04	3.254E-04	1.245E-05	2.002E-03	
165	2.036E-04	2.628E-03	2.267E-05	3.179E-04	2.943E-04	1.138E-05	1.921E-03	1.919E-04
166	1.797E-04	2.503E-03	2.016E-05	2.816E-04	2.606E-04	1.015E-05	1.775E-03	1.693E-04
167	1.607E-04	2.450E-03	1.803E-05	2.518E-04	2.330E-04	9.081E-06	1.591E-03	1.513E-04
168	3.593E-04	4.402E-03	3.934E-05	5.573E-04	5.162E-04 5.151E-04	1.959E-05	3.028E-03	3.390E-04
169	3.595E-04	4.522E-03	3.917E-05	5.560E-04	5.151E-04	1.946E-05	2.922E-03	3.395E-04
170	3.439E-04	4.406E-03	3.739E-05	5.313E-04	4.922E-04	1.855E-05	2.753E-03	3.247E-04
171	3.228E-04	4.048E-03	3.521E-05	4.994E-04	4.626E-04	1.750E-05	2.642E-03	3.048 <b>E-</b> 04
172	3.035E-04	3.666E-03	3.326E-05	4.705E-04	4.358E-04	1.656E-05	2.567E-03	2.864E-04
173	2.834E-04	3.304E-03	3.126E-05	4.407E-04	4.080E-04	1.562E-05	2.513E-03	2.673E-04
174	2.526E-04	3.043E-03	2.824E-05	3.954E-04	3.659E-04	1.420E-05	2.446E-03	2.380E-04
175	2.200E-04	2.855E-03	2.496E-05	3.469E-04	3.208E-04	1.264E-05	2.334E-03	2.069E-04
176	1.904E-04	2.750E-03	2.149E-05	2.993E-04	2.769E-04	1.085E-05	1.954E-03	1.792E-04
		2.649E-03	1.901E-05	2.651E-04	2.453E-04	9.592E-06	1.710E-03	1.589E-04
177	1.688E-04					2 714F-05		4.544E-04
178	4.824E-04	5.498E-03	5.399E-05	7.584E-04	7.018E-04 6.684E-04	2.716E-05 2.516E-05	4.703E-03 3.717E-03	4.409E-04
179	4.668E-04	5.400E-03	5.072E-05	7.214E-04				4.707E~04 4.121E_04
180	4.374E-04	5.041E-03	4.755E-05	6.758E-04	6.261E-04	2.359E-05	3.495E-03	4.131E-04
181	4.000E-04	4.481E-03	4.381E-05	6.200E-04	5.743E-04	2.181E-05		3.775E-04
182	3.692E-04		4.112E-05	5.774E-04	5.344E-04			3.480E-04
183	3.233E-04	3.606E-03	3.612E-05	5.059E-04	4.682E-04			3.046E-04
184	2.836E-04	3.351E-03	3.324E-05	4.547E-04				2.661E-04
185	2.379E-04		2.767E-05	3.804E-04				2.233E-04
186	2.032E-04		2.319E-05	3.215E-04				1.911E-04
187	1.790E-04			2.809E-04				1.685E-04
188	6.778E-04			1.060E-03				6.387E-04
189	6.499E-04			1.003E-03		3.482E-05		6.139E-04
190	5.860E-04			9.066E-04				5.532E-04
								4.798E-04
191	5.089E-04			7.939E-04				4.083E-04
192	4.336E-04	4.422E-03	4.868E-05	6.806E-04				
193	3.645E-04			5.788E-04				3.426E-04
194	3.093E-04			4.954E-04				2.902E-04
195	2.564E-04	3.467E-03	2.968E-05	4.091E-04	4 3.780E-04	1.516E-05	3.039E-03	2.408E-04

101								
196	2.224E-04	3.277E-03	2.565E-05	3.550E-04	3.281E-04	1.308E-05	2.585E-03	2.089E-04
197	1.884E-04	2.963E-03	2.108E-05	2.953E-04	2.733E-04	1.061E-05	1.835E-03	1.774E-04
198	1.101E-03	8.698E-03	1.201E-04	1.706E-03	1.580E-03	5.972E-05	9.057E-03	1.039E-03
199	1.078E-03	7.897E-03	1.161E-04	1.663E-03	1.541E-03	5.737E-05	8.057E-03	1.019E-03
200	8.938E-04	6.796E-03	9.872E-05	1.393E-03	1.289E-03	4.935E-05	7.991E-03	8.429E-04
201	5.032E-04	4.889E-03	5.828E-05	8.016E-04	7.408E-04	2.978E-05	5.982E-03	4.725E-04
202	3.457E-04	4.100E-03	4.006E-05	5.511E-04	5.092E-04	2.048E-05	4.122E-03	3.246E-04
203	2.848E-04	3.843E-03	3.319E-05	4.555E-04	4.208E-04	1.701E-05	3.501E-03	2.673E-04
204	2.330E-04	3.453E-03	2.601E-05	3.649E-04	3.377E-04	1.307E-05	2.238E-03	2.195E-04
205	1.895E-04	3.019E-03	2.099E-05	2.956E-04	2.736E-04	1.050E-05	1.723E-03	1.787E-04
206	1.829E-04	3.035E-03	2.015E-05	2.846E-04	2.635E-04	1.007E-05	1.611E-03	1.725E-04
207	1.716E-04	2.971E-03	1.979E-05	2.732E-04	2.525E-04	1.009E-05	1.992E-03	1.612E-04
208	1.719E-05	4.097E-04	1.985E-06	2.738E-05	2.531E-05	1.013E-06	2.011E-04	1.615E-05
209	1.975E-05	4.398E-04	2.265E-06	3.133E-05	2.897E-05	1.153E-06	2.228E-04	1.856E-05
210	2.323E-05	5.458E-04	2.656E-06	3.678E-05	3.401E-05	1.349E-06	2.570E-04	2.184E-05
211	2.744E-05	6.572E-04	3.118E-06	4.333E-05	4.007E-05	1.580E-06	2.937E-04	2.581E-05
212 213	3.297E-05 4.125E-05	8.199E-04	3.722E-06	5.188E-05	4.799E-05	1.880E-06	3.386E-04	3.104E-05
214		1.051E-03	4.632E-06	6.473E-05	5.989E-05	2.334E-06	4.105E-04	3.885E-05
215	5.269E-05	1.284E-03	5.875E-06	8.238E-05	7.624E-05	2.950E-06	5.016E-04	4.965E-05
216	6.792E-05 8.101E-05	1.432E-03 1.644E-03	7.535E-06	1.059E-04	9.805E-05	3.775E-06	6.254E-04	6.403E-05
217	9.346E-05		8.984E-06	1.263E-04	1.169E-04	4.501E-06	7.448E-04	7.637E-05
218	1.001E-04	1.686E-03 1.735E-03	1.032E-05 1.103E-05	1.454E-04	1.346E-04	5.158E-06	8.333E-04	8.815E-05
219	1.034E-04	1.690E-03		1.556E-04	1.440E-04	5.506E-06	8.794E-04	9.442E-05
220	9.688E-05	1.553E-03	1.138E-05 1.070E-05	1.606E-04	1.487E-04	5.684E-06	9.065E-04	9.750E-05
221	8.904E-05	1.497E-03	9.818E-06	1.507E-04 1.384E-04	1.395E-04 1.281E-04	5.353E-06 4.905E-06	8.687E-04 7.873E-04	9.136E-05
222	8.263E-05	1.434E-03	9.049E-06	1.281E-04		4.506E-06		8.398E-05
223	8.216E-05	1.347E-03	9.008E-06	1.274E-04	1.186E-04 1.180E-04	4.488E-06	6.969E-04 6.983E-04	7.798E-05
224	8.189E-05	1.319E-03	9.051E-06	1.275E-04	1.180E-04	4.527E-06	7.355E-04	7.753E-05
225	7.994E-05	1.322E-03	8.936E-06	1.251E-04	1.157E-04	4.494E-06	7.738E-04	7.723E-05 7.530E-05
226	7.567E-05	1.280E-03	8.499E-06	1.187E-04	1.098E-04	4.283E-06	7.542E-04	7.126E-05
227	1.686E-05	4.098E-04	1.971E-06	2.699E-05	2.493E-05	1.012E-06	2.107E-04	1.581E-05
228	1.994E-05	4.805E-04	2.309E-06	3.181E-05	2.940E-05	1.180E-06	2.369E-04	1.873E-05
229	2.352E-05	5.342E-04	2.701E-06	3.734E-05	3.452E-05	1.375E-06	2.668E-04	2.211E-05
230	2.816E-05	6.880E-04	3.214E-06	4.456E-05	4.120E-05	1.632E-06	3.086E-04	2.648E-05
231	3.415E-05	8.336E-04	3.869E-06	5.384E-05	4.980E-05	1.958E-06	3.588E-04	3.213E-05
232	4.260E-05	1.114E-03	4.786E-06	6.687E-05	6.187E-05	2.412E-06	4.254E-04	4.011E-05
233	5.562E-05	1.397E-03	6.207E-06	8.700E-05	8.052E-05	3.118E-06	5.322E-04	5.240E-05
234	7.379E-05	1.661E-03	8.186E-06	1.151E-04	1.065E-04	4.101E-06	6.795E-04	6.956E-05
235	9.306E-05	1.918E-03	1.030E-05	1.450E-04	1.342E-04	5.156E-06	8.450E-04	8.774E-05
236	1.110E-04	1.994E-03	1.225E-05	1.726E-04	1.598E-04	6.120E-06	9.864E-04	1.047E-04
237	1.218E-04	2.018E-03	1.340E-05	1.892E-04	1.752E-04	6.689E-06	1.061E-03	1.149E-04
238	1.240E-04	1.957E-03	1.365E-05	1.925E-04	1.783E-04	6.813E-06	1.085E-03	1.169E-04
239	1.151E-04	1.794E-03	1.270E-05	1.790E-04	1.657E-04	6.350E-06	1.025E-03	1.085E-04
240	1.060E-04	1.801E-03	1.164E-05	1.644E-04	1.523E-04	5.801E-06	9.088E-04	1.000E-04
241	1.021E-04	1.659E-03	1.116E-05	1.581E-04	1.464E-04	5.552E-06	8.500E-04	9.635E-05
242	1.014E-04	1.580E-03	1.116E-05	1.575E-04	1.459E-04	5.568E-06	8.819E-04	9.571E-05
243	9.720E-05	1.527E-03	1.082E-05	1.518E-04	1.405E-04	5.432E-06	9.169E-04	9.160E-05
244	9.056E-05	1.484E-03	1.017E-05	1.420E-04	1.314E-04	5.126E-06	9.027E-04	8.528E-05
245	8.091E-05	1.390E-03	9.091E-06	1.269E-04	1.174E-04	4.582E-06	8.085E-04	7.619E-05
246	1.554E-05	3.834E-04	1.820E-06	2.493E-05	2.302E-05	9.350E-07	1.959E-04	1.458E-05
247	1.912E-05	4.811E-04	2.243E-06	3.067E-05	2.833E-05	1.153E-06	2.431E-04	1.794E-05
248	2.331E-05	5.763E-04	2.703E-06	3.721E-05	3.439E-05	1.382E-06	2.789E-04	2.189E-05
249	2.855E-05	6.773E-04	3.271E-06	4.527E-05	4.186E-05	1.664E-06	3.201E-04	2.684E-05
250	3.523E-05	8.789E-04	4.012E-06	5.569E-05	5.150E-05	2.034E-06	3.810E-04	3.314E-05
251	4.446E-05	1.148E-03	5.014E-06	6.992E-05	6.469E-05	2.531E-06	4.543E-04	4.185E-05
252	5.842E-05	1.555E-03	6.526E-06	9.144E-05	8.463E-05	3.280E-06	5.627E-04	5.504E-05
253	8.072E-05	1.945E-03	8,950E-06	1.259E-04	1.165E-04	4.483E-06	7.409E-04	7.609E-05
254	1.080E-04	2.272E-03	1.193E-05	1.681E-04	1.556E-04	5.964E-06	9.648E-04	1.019E-04
255	1.350E-04	2.413E-03	1.488E-05	2.098E-04	1.943E-04	7.431E-06	1.189E-03	1.273E-04
256	1.524E-04	2.394E-03	1.674E-05	2.365E-04	2.190E-04	8.351E-06	1.317E-03	1.437E-04
257	1.526E-04	2.276E-03	1.679E-05	2.370E-04	2.194E-04	8.383E-06	1.333E-03	1.439E-04
258	1.432E-04	2.218E-03	1.575E-05	2.223E-04	2.059E+04	7.863E-06	1.249E-03	1.350E-04
259	1.337E-04	2.156E-03	1.461E-05	2.070E-04	1.917E-04	7.269E-06	1.112E-03	1.262E-04
260	1.310E-04	1.961E-03	1.433E-05	2.029E-04	1.879E-04	7.132E-06	1.098E-03	1.236E-04
261	1.231E-04	1.828E-03	1.362E-05	1.917E-04	1.774E-04	6.819E-06	1.118E-03	1.160E-04
262	1.114E-04	1.743E-03	1.250E-05	1.745E-04	1.615E-04	6.294E-06	1.102E-03	1.049E-04
263	9.867E-05	1.643E-03	1.108E-05	1.547E-04	1.432E-04	5.584E-06	9.825E-04	9.292E-05
264 265	8.345E-05 1.560E-05	1.487E-03 4.130E-04	9.341E-06	1.307E-04	1.209E-04	4.700E-06	8.144E-04	7.861E-05
266	1.816E-05		1.845E-06	2.517E-05	2.324E-05	9.517E-07	2.064E-04	1.462E-05
267	2.225E-05	4.664E-04 5.823E-04	2.127E-06 2.606E-06	2.914E-05 3.567E-05	2.692E-05 3.294E-05	1.093E-06	2.292E-04	1.703E-05 2.087E-05
268	2.778E-05	7.130E-04	3.222E-06	4.436E-05	4.099E-05	1.338E-06 1.648E-06	2.804E-04 3.330E-04	2.608E-05
269	3.557E-05	9.025E-04	4.070E-06					
270	4.595E-05	1.186E-03	5.197E-06	5.637E-05 7.240E-05	5.211E-05 6.697E-05	2.069E-06 2.628E-06	3.958E-04 4.780E-04	3.344E-05
271	6.196E-05	1.721E-03	6.941E-06	9.713E-05	8.988E-05	3.493E-06	6.072E-04	4.324E-05 5.836E-05
272	8.767E-05	2.294E-03	9.717E-06	1.367E-04	1.266E-04	4.866E-06	8.024E-04	8.265E-05
273	1.278E-04	2.743E-03	1.410E-05	1.989E-04	1.841E-04	7.042E-06	1.131E-03	1.206E-04
274	1.720E-04	3.015E-03	1.932E-05	2.704E-04	2.502E-04	9.739E-06	1.718E-03	1.620E-04
275	1.992E-04	2.920E-03	2.198E-05	3.102E-04	2.872E-04	1.098E-05	1.766E-03	1.879E-04
276	1.986E-04	2.799E-03	2.182E-05	3.082E-04	2.854E-04	1.089E-05	1.716E-03	1.874E-04
277	1.880E-04	2.831E-03	2.056E-05	2.911E-04	2.697E-04	1.023E-05	1.570E-03	1.774E-04
278	1.769E-04	2.584E-03	1.931E-05	2.738E-04	2.536E-04	9.600E-06	1.457E-03	1.670E-04
279	1.666E-04	2.295E-03	1.833E-05	2.588E-04	2.396E-04	9.150E-06	1.452E-03	1.572E-04
280	1.444E-04	2.080E-03	1.614E-05	2.259E-04	2.091E-04	8.118E-06	1.397E-03	1.361E-04
281	1.232E-04	1.980E-03	1.383E-05	1.931E-04	1.787E-04	6.966E-06	1.222E-03	1.160E-04
282	1.027E-04	1.800E-03	1.147E-05	1.606E-04	1.486E-04	5.768E-06	9.920E-04	9.671E-05
283	8.188E-05	1.553E-03	9.130E-06	1.280E-04	1.185E-04	4.586E-06	7.799E-04	7.715E-05
284	1.594E-05	3.699E-04	1.888E-06	2.570E-05	2.373E-05	9.747E-07	2.128E-04	1.493E-05
285	1.858E-05	4.815E-04	2.204E-06	3.000E-05	2.770E-05	1.138E-06	2.492E-04	1.741E-05
286	2.207E-05	5.795E-04	2.583E-06	3.542E-05	3.272E-05	1.326E-06	2.772E-04	2.071E-05
287	2.735E-05	7.363E-04	3.177E-06	4.367E-05	4.035E-05	1.625E-06	3.300E-04	2.568E-05
288	3.469E-05	9.273E-04	4.002E-06	5.525E-05	5.106E-05	2.042E-06	4.036E-04	3.259E-05
289	4.623E-05	1.272E-03	5.267E-06	7.309E-05	6.759E-05	2.672E-06	5.016E-04	4.348E-05
290	6.439E-05	1.833E-03	7.240E-06	1.011E-04	9.357E-05	3.651E-06	6.465E-04	6.062E-05
291	9.615E-05	2.768E-03	1.065E-05	1.499E-04	1.388E-04	5.334E-06	8.780E-04	9.065E-05
292	1.644E-04	3.438E-03	1.925E-05	2.635E-04	2.434E-04	9.887E-06	2.069E-03	1.543E-04

293	2.264E-04	3.858E-03		3.511E-04	3.252E-04	1.235E-05	1.912E-03	2.137E-04
294	1.308E-04	2.219E-03		2.044E-04	1.892E-04	7.331E-06	1.251E-03	1.232E-04
295	1.007E-04	1.863E-03		1.572E-04	1.455E-04	5.619E-06	9.430E-04	9.492E-05
296	7.530E-05	1.450E-03	8.375E-06	1.175E-04	1.088E-04	4.201E-06	7.053E-04	7.097E-05
297	1.443E-05	3.307E-04	1.722E-06	2.335E-05	2.155E-05	8.915E-07	1.992E-04	1.351E-05
298	1.746E-05	4.120E-04	2.086E-06	2.827E-05	2.609E-05	1.081E-06	2.423E-04	1.635E-05
299	2.131E-05	5.579E-04	2.548E-06	3.453E-05	3.187E-05	1.320E-06	2.971E-04	1.995E-05
300	2.603E-05	7.272E-04	3.064E-06	4.188E-05	3.867E-05	1.577E-06	3.368E-04	2.441E-05
301	3.360E-05	9.829E-04	3.894E-06	5.359E-05	4.952E-05	1.991E-06	4.007E-04	3.155E-05
302	4.573E-05	1.316E-03	5.223E-06	7.243E-05	6.697E-05	2.653E-06	5.038E-04	4.300E-05
303	6.604E-05	1.991E-03	7.442E-06	1.038E-04	9.606E-05	3.757E-06	6.721E-04	6.217E-05
304	1.037E-04	3.348E-03	1.152E-05	1.619E-04	1.499E-04	5.777E-06	9.649E-04	9.774E-05
305	1.885E-04	4.486E-03	2.070E-05	2.931E-04	2.714E-04	1.032E-05	1.622E-03	1.778E-04
306	1.315E-04	2.302E-03	1.453E-05	2.047E-04	1.895E-04	7.268E-06	1.181E-03	1.240E-04
307	9.397E-05	1.735E-03	1.039E-05	1.463E-04	1.354E-04	5.19SE-06	8.447E-04	8.861E-05
308	6.961E-05	1.335E-03	7.690E-06	1.083E-04	1.003E-04	3.845E-06	6.237E-04	6.565E-05
309	1.179E-05	3.540E-04	1.455E-06	1.945E-05	1.793E-05	7.639E-07	1.891E-04	1.101E-05
310	1.465E-05	4.071E-04	1.773E-06	2.390E-05	2.205E-05	9.238E-07	2.163E-04	1.370E-05
311	1.851E-05	5.019E-04	2.216E-06	3.001E-05	2.770E-05	1.149E-06	2.597E-04	1.733E-05
312	2.369E-05	6.770E-04	2.812E-06	3.823E-05	3.529E-05	1.453E-06	3.192E-04	2.219E-05
313	3.068E-05	9.415E-04	3.610E-06	4.931E-05	4.554E-05	1.858E-06	3.958E-04	2.877E-05
314 315	4.233E-05 6.246E-05	1.408E-03	4.901E-06	6.747E-05	6.235E-05	2.504E-06	5.022E-04	3.976E-05
		2.171E-03	7.123E-06	9.879E-05	9.135E-05	3.615E-06	6.819E-04	5.874E-05
316 317	1.037E-04 2.248E-04	4.153E-03	1.160E-05	1.624E-04	1.503E-04	5.835E-06	1.008E-03	9.771E-05
318		6.857E-03	2.450E-05	3.479E-04	3.223E-04	1.218E-05	1.834E-03	2.122E-04
319	1.203E-04	2.193E-03	1.327E-05	1.871E-04	1.733E-04	6.631E-06	1.068E-03	1.134E-04
320	8.211E-05	1.647E-03	9.079E~06	1.278E-04	1.184E-04	4.542E-06	7.400E-04	7.743E-05
321	6.136E-05 1.017E-05	1.310E-03	6.790E-06	9.555E-05	8.846E-05	3.397E-06	5.553E-04	5.786E-05
322	1.220E-05	3.391E-04	1.277E-06	1.691E-05	1.558E-05	6.750E-07	1.752E-04	9.475E-06
323	1.468E-05	4.175E-04 4.963E-04	1.544E-06 1.818E-06	2.041E-05	1.879E-05	8.192E-07	2.170E-04	1.136E-05
324	1.858E-05	6.042E-04	2.243E-06	2.429E-05	2.239E-05	9.561E-07	2.392E-04	1.370E-05
325	2.515E-05	8.368E-04		3.029E-05	2.794E-05	1.167E-06	2.709E-04	1.738E-05
326	3.548E-05	1.344E-03	2.989E-06	4.063E-05	3.751E-05	1.545E-06	3.408E-04	2.356E-05
327			4.186E-06	5.708E-05	5.271E-05	2.157E-06	4.636E-04	3.327E-05
328	5.308E-05	2.329E-03	6.137E-06	8.450E-05	7.809E-05	3.134E-06	6.254E-04	4.985E-05 /
	9.197E-05	5.200E-03	1.046E-05	1.452E-04	1.343E-04	5.301E-06	9.874E-04	8.651E-05
329	2.258E-04	1.511E-02	2.480E-05	3.507E-04	3.248E-04	1.237E-05	1.943E-03	2.130E-04
330	1.032E-04	2.034E-03	1.135E-05	1.603E-04	1.484E-04	5.663E-06	8.968E-04	9.735E-05
331	7.513E-05	1.488E-03	8.296E-06	1.169E-04	1.082E-04	4.147E-06	6.710E-04	7.085E-05
332	5.938E-05	1.111E-03	6.572E-06	9.246E-05	8.560E-05	3.289E-06	5.385E-04	5.599E-05
333	9.413E-06	2.304E-04	1.120E-06	1.529E-05	1.412E-05	5.789E-07	1.281E-04	8.818E-06
334	1.091E-05	3.055E-04	1.300E-06	1.764E-05	1.628E-05	6.726E-07	1.497E-04	1.022E-05
335 336	1.296E-05 1.594E-05	4.211E-04 5.794E-04	1.553E-06	2.102E-05	1.940E-05	8.055E-07	1.826E-04	1.213E-05
			1.924E-06	2.597E-05	2.396E-05	1.001E-06	2.321E-04	1.492E-05
337 338	2.041E-05	7.930E-04	2.486E-06	3.343E-05	3.083E-05	1.298E-06	3.095E-04	1.908E-05
339	2.731E-05	1.127E-03	3.294E-06	4.449E-05	4.105E-05	1.713E-06	3.965E-04	2.555E-05
340	4.209E-05 7.534E-05	1.960E-03	4.995E-06	6.793E-05	6.271E-05	2.580E-06	5.662E-04	3.944E-05
		5.280E-03	8.737E-06	1.202E-04	1.110E-04	4.468E-06	9.018E-04	7.074E-05
341	2.793E-04	4.238E-03	3.038E-05	4.325E-04	4.007E-04	1.508E-05	2.242E-03	2.638E-04
342 343	1.359E-04 9.176E-05	2.515E-03	1.493E-05	2.110E-04	1.954E-04	7.444E-06	1.170E-03	1.283E-04
344	6.852E-05	1.688E-03 1.266E-03	1.013E-05	1.427E-04	1.321E-04	5.061E-06	8.161E-04	8.654E-05
345			7.580E-06	1.067E-04	9.875E-05	3.793E-06	6.196E-04	6.461E-05
346	5.335E-05	1.043E-03	5.913E-06	8.312E-05	7.695E-05	2.961E-06	4.882E-04	5.030E-05
	8.545E-06 9.582E-06	2.017E-04	1.087E-06	1.432E-05	1.318E-05	5.778E-07	1.550E-04	7.953E-06
347		2.350E-04	1.176E-06	1.582E-05	1.458E-05	6.164E-07	1.506E-04	8.949E-06
348 349	1.121E-05	2.833E-04	1.352E-06	1.827E-05	1.685E-05	7.030E-07	1.627E-04	1.048E-05
	1.350E-05	3.636E-04	1.601E-06	2.181E-05	2.014E-05	8.263E-07	1.807E-04	1.265E-05
350 351	1.700E-05	5.220E-04	1.993E-06	2.729E-05	2.521E-05	1.024E-06	2.154E-04	1.594E-05
	2.266E-05 3.369E-05	8.521E-04	2.645E-06	3.628E-05	3.352E-05	1.356E-06	2.804E-04	2.127E-05
352 353		1.501E-03	3.938E-06	5.394E-05	4.983E-05	2.021E-06	4.203E-04	3.161E-05
353 364	5.630E-05 1.946E-04	3.544E-03	6.637E-06	9.050E-05	8.357E-05	3.419E-06	7.335E-04	5.278E-05
354 355	1.086E-04	3.317E-03 2.182E-03	2.107E-05 1.190E-05	3.001E-04 1.683E-04	2.781E-04 1.559E-04	1.043E-05 5.930E-06	1.506E-03	1.838E-04 1.025E-04
356	7.454E-05	1.669E-03	8.224E-06	1.159E-04	1.073E-04	4.110E-06	9.228E-04 6.619E-04	7.031E-05
357	5.655E-05	1.328E-03	6.258E-06	8.804E-05	8.151E-05	3.132E-06	5.123E-04	5.332E-05
358	4.578E-05	1.073E-03	5.069E-06	7.129E-05	6.600E-05	2.537E-06	4.164E-04	4.316E-05
359	7.543E-06	2.045E-04	9.610E-07	1.261E-05	1.161E-05	5.110E-07	1.375E-04	7.019E-06
360	8.746E-06	2.415E-04	1.106E-06	1.463E-05	1.347E-05	5.864E-07	1.550E-04	8.145E-06
361	9.970E-06	2.955E-04	1.198E-06	1.623E-05	1.498E-05	6.219E-07	1.422E-04	9.331E-06
362	1.204E-05	3.734E-04	1.418E-06	1.941E-05	1.792E-05	7.305E-07	1.566E-04	1.128E-05
363	1.500E-05	4.929E-04	1.744E-06	2.402E-05	2.219E-05	8.928E-07	1.820E-04	1.408E-05
364	1.949E-05	6.814E-04	2.234E-06	3.095E-05	2.861E-05	1.137E-06	2.191E-04	1.832E-05
365	2.633E-05	1.035E-03	3.005E-06	4.166E-05	3.852E-05	1.525E-06	2.886E-04	2.476E-05
366	4.135E-05	2.137E-03	4.698E-06	6.524E-05	6.034E-05	2.380E-06	4.417E-04	3.890E-05
367	9.251E-05	8.432E-03	1.042E-05	1.454E-04	1.345E-04	5.261E-06	9.406E-04	8.709E-05
368	3.145E-04	1.623E-02	3.557E-05	4.947E-04	4.576E-04	1.798E-05	3.269E-03	2.960E-04
369	2.440E-04	5.093E-03	2.662E-05	3 775E-04	3.497E-04	1.323E-05	2 002E-03	2.303E-04
370	1.431E-04	2.900E-03	1.562E-05	2.215E-04	2.052E-04	7.766E-06	1.179E-03	1.351E-04
371	9.074E-05	1.917E-03	9.950E-06	1.407E-04	1.303E-04	4.958E-06	7.722E-04	8.562E-05
372	6.361E-05	1.394E-03	7.007E-06	9.884E-05	9.152E-05	3.499E-06	5.587E-04	6.000E-05
373	4.805E-05	1.091E-03	5.308E-06	7.476E-05	6.921E-05	2.654E-06	4.304E-04	4.531E-05
374	3.882E-05	8.993E-04	4.300E-06	6.047E-05	5.598E-05	2.152E-06	3.535E-04	3.660E-05
375	7.233E-06	1.720E-04	9.095E-07	1.200E-05	1.106E-05	4.812E-07	1.253E-04	6.740E-06
376	8.409E-06	2.050E-04	1.052E-06	1.393E-05	1.283E-05	5.558E-07	1.430E-04	7.839E-06
377	9.913E-06	2.541E-04	1.225E-06	1.640E-05	1.511E-05	6.439E-07	1.603E-04	9.253E-06
378	1.152E-05	3.244E-04	1.341E-06	1.846E-05	1.705E-05	6.871E-07	1.409E-04	1.081E-05
379	1.447E-05	4.105E-04	1.666E-06	2.303E-05	2.128E-05	8.492E-07	1.665E-04	1.360E-05
380	1.846E-05	5.270E-04	2.126E-06	2.933E-05	2.711E-05	1.084E-06	2.132E-04	1.734E-05
381	2.476E-05	7.710E-04	2.849E-06	3.934E-05	3.637E-05	1.452E-06	2.841E-04	2.326E-05
382	3.582E-05	1.560E-03	4.068E-06	5.653E-05	5.228E-05	2.061E-06	3.819E-04	3.369E-05
383	6.974E-05	3.673E-03	7.848E-06	1.095E-04		3.959E-06	7.035E-04	6.566E-05
384	1.400E-04	9.437E-03	1.599E-05	2.212E-04	2.046E-04	8.124E-06	1.545E-03	1.316E-04
385	1.767E-04	1.918E-02	2.027E-05	2.798E-04	2.587E-04	1.031E-05	1.992E-03	1.661E-04
386	1.948E-04	1.983E-02	2.220E-05	3.075E-04	2.843E-04	1.126E-05	2.115E-03	1.832E-04
387	1.846E-04	8.122E-03	2.074E-05	2.893E-04		1.046E-05		1.738E-04
388	1.531E-04	3.423E-03	1.695E-05	2.384E-04			1.393E-03	1.443E-04
389	1.131E-04			1.758E-04				1.067E-04
							. = *,	

390	8.006E-05	1.492E-03	8.823E-06	1.244E-04	1.152E-04	4.406E-06	7.051E-04	7.552E-05
391								
	5.938E-05	1.125E-03	6.541E-06	9.226E-05	8.543E-05	3.266E-06	5.214E-04	5.601E-05
392	4.540E-05	9.056E-04	5.007E-06	7.058E-05	6.535E-05	2.502E-06	4.022E-04	4.282E-05
393	3.6572-05							
		7.613E-04	4.046E-06	5.693E-05	5.271E-05	2.025E-06	3.308E-04	3.448E-05
394	7.250 <b>2-</b> 06	1.781E-04	8.947E-07	1.193E-05	1.099E-05	4.697E-07	1.163E-04	6.768E-06
395	8.729 <b>Ľ-</b> 06	2.074E-04	1.069E-06	1.430E-05	1.319E-05	5.596E-07	1.356E-04	8.154E-06
396	1.058E-05							
		2.347E-04	1.308E-06	1.745E-05	1.608E-05	6.871 <b>2-</b> 07	1.709E-04	9.879E-06
397	1.223E-05	2.734E-04	1.468E-06	1.989E-05	1.835E-05	7.620E-07	1.737E-04	1.145E-05
398	1.399E-05	3.349E-04	1.653E-06					
399				2.257E-05	2.084E-05	8.520E-07	1.840E-04	1.312E-05
	1.651E-05	4.552E-04	1.924E-06	2.644E-05	2.443E-05	9.860E-07	2.028E-04	1.550E-05
400	2.114E-05	7.840E-04	2.415E-06	3.350E-05	3.098E-05	1.226E-06	2.328E-04	1.988E-05
401	3.143E-05							
		1.334E-03	3.545E-06	4.944E-05	4.573E-05	1.790E-06	3.213E-04	2.958 <b>E-</b> 05
402	5.604 <b>Z-</b> 05	2.346E-03	6.326E-06	8.815E-05	8.154E-05	3.196E-06	5.760E-04	5.275E-05
403	9.098E-05	4.091E-03	1.039E-05	1.438E-04	1.330E-04	5.278E-06	1.002E-03	
404	1.184E-04							8.554E-05
		6.350E-03	1.353E-05	1.872E-04	1.731E-04	6.874E-06	1.308E-03	1.113E-04
405	1.314E-04	6.838E-03	1.506E-05	2.080E-04	1.923E-04	7.660E-06	1.474E-03	1.235E-04
406	1.278E-04	4.912E-03	1.439E-05	2.006E-04	1.856E-04	7.260E-06		
407							1.292E-03	1.203E-04
	1.113E-04	2.937E-03	1.241E-05	1.739E-04	1.609E-04	6.237E-06	1.064E-03	1.048E-04
408	8.923E-05	1.883E-03	9.878E-06	1.390E-04	1.286E-04	4.944E-06	8.106E-04	8.413E-05
409	6.977E-05	1.317E-03	7.731E-06	1.087E-04		3.871E-06		
					1.006E-04		6.375E-04	6.578 <b>E</b> -05
410	5.538E-05	1.036E-03	6.133E-06	8.626E-05	7.986 <b>E-</b> 05	3.070E-06	5.045E-04	5.221E-05
411	4.433E-05	8.580E-04	4.899E-06	6.898E-05	6.387E-05	2.450E-06	3.976Z-04	4.181E-05
412	3.534E-05	7.103E-04						
			3.908E-06	5.500E-05	5.092E-05	1.955E-06	3.184E-04	3.332E-05
413	1.219E-05	3.371E-04	1.460E-06	1.984E-05	1.831E-05	7.574E-07	1_7172-04	1.141E-05
414	1.062E-05	3.233E-04	1.256E-06	1.716E-05	1.584E-05	6.479E-07	1.405E-04	9.956E-06
415	9.922E-06							
		3.230E-04	1.167E-06	1.600E-05	1.478E-05	6.003 <b>Z-</b> 07	1.277E-04	9.305E-06
416	1.443 <b>E-</b> 05	4.880E-04	1.669E-06	2.304E-05	2.130E-05	8.523E-07	1.702E-04	1.355E-05
417	1.323E-05	4.510E-04	1.522E-06	2.109E-05	1.949E-05	7.760E-07	1.522E-04	1.243E-05
418	1.372E-05							
		3.655E-04	1.582E-06	2.184E-05	2.018E-05	8.073E-07	1.596E-04	1.289E-05
419	1.881E-05	6.789E~04	2.132E-06	2.971E-05	2.748E-05	1.079E-06	1.984E-04	1.769E-05
420	1.931E-05	5.478E-04	2.212E-06	3.062E-05	2.831E-05	1.125E-06		
421							2.159E-04	1.815E-05
	1.821E-05	5.135E-04	2.125E-06	2.917E-05	2.694E-05	1.090E-06	2.257E-04	1.708E-05
422	2.907E-05	1.050E-03	3.305E-06	4.590E-05	4.245E-05	1.675E-06	3.114E-04	2.735E-05
423	2.672E-05	9.177E-04	3.055E-06					
				4.237E-05	3.918E-05	1.552E-06	2.959E-04	2.512E-05
424	2.509E-05	8.023E-04	2.886E-06	3.989 <b>2-</b> 05	3.687E-05	1.470E-06	2.873E-04	2.358E-05
- 425	4.696Z-05	1.713E-03	5.331E-06	7.408E-05	6.851E-05	2.700E-06	4.994E-04	4.418E-05
426	4.098E-05	1.369E-03						
			4.675E-06	6.480E-05	5.992E-05	2.373E-06	4.485E-04	3.853E-05
427	3.680Z-05	1.176E-03	4.212E-06	5.830E-05	5.390E-05	2.141E-06	4.096E-04	3.460E-05
428	6.971E-05	2.623E-03	7.956E-06	1.102E-04	1.019E-04	4.039E-06	7.638E-04	6.556E-05
429	5.716E-05							
		1.924E-03	6.521E-06	9.038E-05	8.357E-05	3.310E-06	6.252E-04	5.37 <b>5E-</b> 05
430	4.818E-05	1.471E-03	5.504E-06	7.625E-05	7.050 <b>2-0</b> 5	2.796E-06	5.312E-04	4.530E-05
431	8.707E-05	3.695E-03	9.935E-06	1.376E-04	1.272E-04	5.044E-06		
432	6.727E-05						9.534E-04	8.188E-05
		2.475E-03	7.685E-06	1.064E-04	9.836E-05	3.904 <b>Z-</b> 06	7.418E-04	6.325E-05
433	5.451E-05	1.815E-03	6.230E-06	8.623E-05	7.972E-05	3.165E-06	6.026E-04	5.125E-05
434	9.534E-05	3.865E-03	1.090E-05	1.507E-04	1.393E-04	5.535E-06		
435	7.347E-05						1.053E-03	8.965E-05
		2.632E-03	8.351E-06	1.158E-04	1.071E-04	4.232E-06	7.866E-04	6.911E-05
436	5.870E-05	1.956E-03	6.65ZE-06	9.245E-05	8.550E-05	3.366E-06	6.174E-04	5.523E-05
437	9.571E-05	3.199E-03	1.086E-05	1.509E-04	1.396E-04	5.501E-06	1.016E-03	
438								9.004E-05
	7.425E-05	2.248E-03	8.439E-06	1.171E-04	1.083E-04	4.276 <b>Z-</b> 06	7.941E-04	6.985E-05
439	5.951E-05	1.719E-03	6.737E-06	9.369E-05	8.665E-05	3.408E-06	6.221E-04	5.600E-05
440	8.612E-05	2.341E-03	9.684E-06	1.351E-04	1.250E-04			
441						4.883E-06	8.644E-04	8.109E-05
	6.980E-05	1.858E-03	7.929E-06	1.101E-04	1.018E-04	4.017E-06	7.448E-Q4	6.566E-05
442	5.773E-05	1.500E-03	6.565E-06	9.109E-05	8.424E-05	3.328E-06	6.201E-04	5.430E-05
443	7.280E-05	1.754E-03	8.220E-06					
				1.147E-04	1.061E-04	4.153E-06	7.495E-04	6.853 <b>E-</b> 05
444	6.140E-05	1.488E-03	7.040E-06	9.747E-05	9.011E-05	3.581E-06	6.907E-04	5.772E-05
445	5.180E-05	1.213E-03	5.859E-06	8.154E-05	7.542E-05	2.962E-06	5.387E-04	4.87SE-05
446	6.012E-05							
		1.289E-03	6.700E-06	9.396E-05	8.696E-05	3.364E-06	5.703E-04	5.665E-05
447	5.137 <b>E-</b> 05	1.211E-03	5.713E-06	8.019E-05	7.423E-05	· 2.866E-06	4.810E-04	4.842E-05
448	4.469E-05	1.063E-03	5.000E-06	6.997E-05	6.475E-05	2.515E-06	4.348E-04	
449	4.952E-05							4.210E-05
		9.779E-04	5.501E-06	7.723E-05	7.148E-05	2.758E-06	4.602E-04	4.667E-05
450	4.348E-05	9.565E-04	4.837E-06	6.786E-05	6.281E-05	2.427E-06	4.082E-04	4.097E-05
451	3.861E-05	9.052E-04	4.303E-06	6.033E-05	5.584E-05			
	0.00	,	7.3435-46	0.0005-00	J.J046-V3	2.161E-06	3.569E-04	3.638E-05

RECEPTOR # 87 HAS HIGHEST CHRONIC BAZARD INDEX OF 4.784E-02

LDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET, FM10 \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* put File: g:\beest\GQ\gqpmace.dat Output File: g:\beest\GQ\GQpmaCE.CUT 11/14/96 07:00:20 Fage - 157

# CHRONIC HAZARD INDEX BY POLLUTANT FOR PEAK RECEPTOR # 87 \*\*\*

LLUTANT	ORAL DOSE (mg/kg-d)	BACKER (ug/m3)	AEL (ug/m3)	CA	CXS	IMMUN	KIDN	LIVER	REFRO	RESP	SKIN
ACETA ACROL ACROL ACRO BENZE Be CCC BCC BCCN BCCN BCN BCN BCN BCN BCN B	0.000E+00 0.000E+00 1.000E+03 0.000E+03 5.000E-03 5.000E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 4.300E+04 4.300E+04 4.000E+03 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	9.000E+00 2.000E-02 5.000E-01 7.100E+01 4.800E-03 3.500E+00 2.000E+01 1.500E+00 7.000E+01 1.500E+01 3.000E-01 3.000E-01 1.400E+01 5.000E+01 2.400E+01 2.400E+01 2.000E+02 3.000E+02	0.000E+00 0.000E+00 2.217E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 2.217E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 4.734E-02 1.293E-05 2.548E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.170E-06 3.386E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.386E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 2.217E-04 0.000E+00 1.222E-03 1.170E-06 3.386E-04 3.880E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 2.217E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET. FM10 \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\gqpmace.dat Output File: g:\beest\GQ\GQpmACE.OUT 11/14/96 07:00:20 Page - 158

## \*\*\* CHRONIC HAZARD INDEX BY SOURCE FOR PEAK RECEPTOR # 87 \*\*\*

POLLUTA	NT ACETA	ACCEPTABLE	EXPOSURE LE	VEL (ug/m3)	= 9.000E+00	BACKG. (ug/m	3) = 0.000E+0	O ORAL DOSE	(mg/kg-d) = 0.000E
		CV	CNS	IMMUN	KIDN	LIVER	REPRO	RESP	skin
SCURCE #	1	0.000E+00							
SOURCE #	2	0.000E+00							
SOURCE #	3	0.000E+00							
SOURCE #	Ă.	0.000E+00							
SOURCE #	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00
SOURCE #	6	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	7	0.000E+00	0.000E+00 0.000E+00						
SOURCE #	8	0.000E+00	0.000E+00	0.000E+00	0.000£+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00
SOURCE #	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
SOURCE #	11	0.000E+00							
	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	13	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00
SOURCE #	14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	15	0.000E+00							
SOURCE #	16	0.000E+00							
SOURCE #	17	0.0002+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	18	0.000E+00							
SOURCE #	19	0.000E+00							
SOURCE #	20	0.000E+00							
SOURCE #	21	0.000E+00							
SOURCE #	22	0.000£+00	0.000E+00						
SOURCE #	23	0.000E+00							
SOURCE #	24	0.000E+00							
SOURCE #	25	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	26	0.000E+00							
SOURCE #	27	0.000E+00							
SOURCE #	28	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	29	0.000E+00							
SOURCE #	30 31	0.000E+00 0.000E+00	0.000E+00						
SOURCE #	32	0.000E+00							
SOURCE #	33	0.000E+00							
SOURCE #	34	0.000E+00							
SCURCE #	35	0.000E+00							
SOURCE #	36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00GE+00	0.000E+00
SOURCE #	37	0.000E+00							
SOURCE #	38	0.000E+00							
SOURCE #	39	0.000E+00							
SOURCE #	40	0.000E+00							
SOURCE #	41	0.000E+00	0.000E+00	0.000E+00			0.000E+00	0.000E+00	0.000E+00
SOURCE #	42	0.000E+00	0.000E+00	0.000E+00			0.000E+00	0.000E+00	0.000E+00
SCURCE #	43	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	44	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	45	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	46	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
June 1	SUM =	0.000E+00	0.000E+00	0.000E+00			0.000E+00	0.000E+00	0.000E+00

POLLUTANT ACROL	ACCEPTABLE	EXPOSURE LE	VEL (ug/m3)	= 2.000E-02	BACKG. (ug/m	3) = 0.000E+	00 ORAL DOSE	(mg/kg-d) = 0.000E+00
	cv	C31S	IMMUN	KIDN	LIVER	REFRO	RESP	skin
SOURCE # 1 SOURCE # 2 SOURCE # 3 SOURCE # 4 SOURCE # 5 SOURCE # 6 SOURCE # 6 SOURCE # 7 SOURCE # 3 SOURCE # 10 SOURCE # 11 SOURCE # 11 SOURCE # 12 SOURCE # 14 SOURCE # 15 SOURCE # 15 SOURCE # 15 SOURCE # 16 SOURCE # 17 SOURCE # 18 SOURCE # 19 SOURCE # 20 SOURCE # 20 SOURCE # 21	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SOURCE # 22	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SOURCE #	23 24 25 26 27 28 29 30 31 33 33 34 33 35 36 37 37 38 39 40 41 42 43 44 45 46	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
POLLUT	CANT As	ACCEPTABLE	E EXPOSURE LI	EVEL (ug/m3)	= 5.000E-01	BACKG. (ug/m	m3) = 0.000E4	-00 ORAL DOSE	(mg/kg-d)	= 1.000E-03
		Ç₹	CNS	IMMUN	KIDN	LIVER	REFRO	RESP	SKIN	*******
SOURCE #	12345678901123456789011234567890124567890100000000000000000000000000000000000	1.123E-06 7.473E-07 8.983E-07 1.293E-06 1.820E-07 3.174E-07 3.102E-07 2.991E-07 3.324E-07 9.925E-08 1.042E-07 1.554E-05 1.287E-05 1.287E-06 1.375E-06 1.375E-06 1.375E-06 1.375E-06 1.375E-06 1.375E-06 1.375E-06 1.375E-07 1.382E-07 1.623E-07 1.623E-07 1.5298E-07 7.510E-07 7.510E-07 7.510E-07 7.510E-07 7.510E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.123E-06 7.473E-07 8.983E-07 1.293E-06 1.820E-07 3.174E-07 2.067E-07 3.102E-07 2.991E-07 3.324E-07 3.324E-07 1.554E-05 1.038E-05 1.287E-05 1.287E-05 1.287E-05 1.287E-05 1.287E-05 1.287E-05 1.287E-05 2.586E-06 6.556E-06 6.556E-06 6.556E-06 6.556E-06 6.556E-06 6.556E-06 6.556E-07 1.299E-05 7.528E-07 1.299E-05 7.518E-07 7.510E-07 1.299E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	1.123E-06 7.473E-07 8.983E-07 1.293E-06 1.820E-07 3.174E-07 2.067E-07 3.126E-07 2.991E-07 3.925E-08 1.042E-07 1.554E-05 1.287E-05 1.287E-05 1.287E-05 1.287E-05 1.287E-05 1.287E-05 1.287E-06 4.421E-06 4.421E-06 4.421E-06 4.556E-06 4.556E-06 4.757E-06 1.355E-06 4.748E-05 2.825E-05 2.825E-05 2.825E-05 2.825E-05 2.825E-07 1.588E-07 7.518E-07	1.123E-06 7.473E-07 8.983E-07 1.8293E-07 1.8293E-07 2.93E-07 2.067E-07 3.102E-07 3.102E-07 3.102E-07 1.554E-05 1.287E-08 1.042E-07 1.554E-05 1.287E-05 1.287E-05 1.287E-06 4.421E-06 6.556E-06 6.460E-06 6.460E-06 6.460E-06 6.480E-06 6.565E-07 1.526E-06 4.748E-05 7.526E-06 7.57E-06 1.757E-06 1.757E-06 1.757E-06 1.757E-06 1.759E-07 1.299E-05 7.528E-07 7.510E-07 1.190E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	
	SUM -	2.217E-04	2.217E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.217E-04	2.217E-04	
POLLUT	TANT BENZE	ACCEPTABLE	E EXPOSURE LI	EVEL (ug/m3)	= 7.100E+01	BACKG. (ug/r	m3) = 0.000E-	-00 ORAL DOSE	(mg/kg-d)	= 0.000E+00
		C₹	CNS	IMMIN	KIDN	LIVER	REPRO	RESP	SKIN	
SOURCE #	1 2 3 4 5 6 7 8 9	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	

SOURCE #	10 11 12 13 14 15 16 17 18 19 20 21 22 22 24 25 27 28 29 31 31 33 33 34	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
						0.000E+00	0.000E+00	0.000E+00	0.000E+00
								0.000E+00	0.000E+00
									0.000E+00
								0.000E+00	0.000E+00
						0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #		0.000E+00	0.000E+00	0.000E+00	0.000E+00				
SOURCE #	36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	37	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
SOURCE #	38	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
SOURCE #	39 40	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	41	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	42	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	43	0.000E+00	0.000E+00	0.000E+00	0.000£+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	44	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Source #	45	0.000E+00	G.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00
Source #	46	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	SUM -	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

POLLUTANT Be ACCEPTABLE EXPOSURE LEVEL (ug/m3) = 4.800E-03 BACKG. (ug/m3) = 0.000E+00 ORAL DOSE (mg/kg-d) = 5.000E-03

		CA	CNS	IMMUN	KIDN	LIVER	REPRO	RESP	SKIN
SOURCE #	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.602E-05	0.000E+00
SOURCE #	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.066E-05	0.000E+00
SOURCE #	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.281E-05	0.000E+00
SOURCE #	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.844E-05	0.000E+00
SOURCE #	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.596E-06	0.000E+00
SOURCE #	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.526E-06	0.000E+00
SOURCE #	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.974E-06	0.000E+00
SCURCE #	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	C.000E+00	4.461E-06	0.000E+00
SOURCE #	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.303E-06	0.000E+00
SOURCE #	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.780E-06	0.000E+00
SOURCE #	11 12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.427E-06	0.000E+00
SOURCE #	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.499E-06	0.000E+00
SOURCE #	13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.217E-04	0.000E+00
SOURCE"#	14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.481E-04	0.000E+00
SOURCE #	15	0.000E+00	G.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.836E-04	0.000E+00
SOURCE #	16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.605E-04	0.000E+00
SOURCE #	17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.688E-05	0.000E+00
SOURCE #	18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.305E-05	0.000E+00
SOURCE #	19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.691E-06	0.000E+00
SOURCE #	20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.503E-06	0.000E+00
Source #	21	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.474E-06	0.000E+00
SOURCE #	22	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.847E-06	0.000E+00
SOURCE #	23	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.828E-07	0.000E+00
SOURCE #	24	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.075E-06	0.000E+00
SOURCE #	25	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00000	1.664E-04	0.000E+00
SOURCE #	26	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.813E-05	0.000E+00
SOURCE #	27	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.079E-05	0.000E+00
SOURCE #	28	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.469E-07	0.000E+00
SOURCE #	29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.779E-07	0.000E+00
SOURCE #	30	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.529E-06	0.000E+00
SOURCE #	31	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.146E-06	0.000E+00
SOURCE <b></b> ≢	32	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.709E-07	0.000E+00
SOURCE #	33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.195E-08	0.000E+00
SOURCE #	34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.434E-08	0.000E+00
Source #	35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.014E-07	0.000E+00
Source #	36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.958E-06	0.000E+00
SOURCE #	37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.876E-06	0.000E+00
SOURCE #	38	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.748E-07	0.000E+00
Source 🕏	39	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.867E-07	0.000E+00
SOURCE #	40	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00	4.543E-07	0.000E+00
SOURCE #	41	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	42	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00 0.000E+00
SOURCE #	43	0.000E+00							
SOURCE #	44	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
SOURCE #	45	0.000E+00	0.000E+00						
Source #	46	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	UUTAUU.U	0.0005700
	SUM =	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.222E-03	0.000E+00

POLLUTANT Cd ACCEPTABLE EXPOSURE LEVEL (ug/m3) = 3.500E+00 BACKG. (ug/m3) = 0.000E+00 ORAL DOSE (mg/kg-d) = 1.000E-03

		<del></del>								
		C₹	CNS	IP#AUN	KIDN	LIVER	REFRO	resp	SKIN	
SOURCE #	1	0.0002+00	0.000E+00	0.000E+00	5.768E-09	0.000E+00	0.000E+00	5.768E-09	0 0005100	
SOURCE #	2	0.000E+00	0.000E+00	0.000E+00	3.838E-09	0.000E+00	0.000E+00	3.838E-09	0.000E+00 0.000E+00	
Source #	3	0.000E+00	0.000E+00	0.000E+00	4.612E-09	0.000E+00	0.000E+00	4.612E-09	0.000E+00	
SOURCE #	3	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	6.639E-09	0.000E+00	0.000E+00	6.639E-09	0.000E+00	
SOURCE #	6	0.000E+00	0.000E+00	0.000E+00 0.000E+00	9.349E-10 1.630E-09	0.000E+00 0.000E+00	0.0002+00	9.349E-10	0.000E+00	
SOURCE #	7	0.0002+00	0.000E+00	0.000E+00	1.061E-09	0.000E+00	0.000E+00 0.000E+00	1.630E-09 1.061E-09	0.000E+00 0.000E+00	
SOURCE #	8	0.0002+00	0.000E+00	0.000E+00	1.592E-09	0.000E+00	0.000E+00	1.592E-09	0.000E+00	
SOURCE #	9 10	0.000E+00 0.000E+00	0.000E+00	0.000E+00	1.536E-09	0.000E+00	0.000E+00	1.536E-09	0.000E+00	
SOURCE #	ii	0.000E+00	0.000E+00 0.000E+00	0.000 <b>E+00</b> 0.000 <b>E+00</b>	1.707E-09	0.000E+00	0.000E+00	1.707E-09	0.000E+00	
SOURCE #	11 12	0.000E+00	0.000E+00	0.000E+00	5.096E-10 5.352E-10	0.000E+00 0.000E+00	0.000E+00 0.000E+00	5.096E-10 5.352E-10	0.000E+00 0.000E+00	
SOURCE #	13	0.000E+00	0.000E+00	0.000E+00	7.977E-08	0.000E+00	0.000E+00	7.977E-08	0.000E+00	
SOURCE #	14 15	0.000E+00 0.000E+00	0.000E+00	0.000E+00	5.328E-08	0.000E+00	0.000E+00	5.328E-08	0.000E+00	
SOURCE #	16	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	6.607 <b>E-</b> 08 9.376 <b>E-</b> 08	0.000E+00	0.000E+00	6.607E-08	0.000E+00	
SOURCE #	17	0.000E+00	0.000E+00	0.000E+00	1.3282-08	0.000E+00 0.000E+00	0.000E+00 0.000E+00	9.376E-08 1.328E-08	0.000E+00 0.000E+00	
SOURCE #	18	0.000E+00	0.000E+00	0.000E+00	2.270E-08	0.000E+00	0.000E+00	2.270E-08	0.000E+00	
SOURCE #	19 20	0.000E+00 0.000E+00	0.000E+00	0.000E+00	4.982E-08	0.000E+00	0.000E+00	4.982E-08	0.000E+00	
SOURCE #	21	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.378E-08 3.339E-08	0.000E+00	0.000E+00	3.378E-08	0.000E+00	
SOURCE #	22	0.000E+00	0.000E+00	0.000E+00	5.191E-08	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.339E-08 5.191E-08	0.000E+00	
SOURCE #	22 23 24	0.000E+00	0.000E+00	0.000E+00	7.865E-09	0.000E+00	0.000E+00	7.865E-09	0.000E+00 0.000E+00	
Source #	25	0.000E+00	0.000E+00	0.000E+00	1.451E-08	0.000E+00	0.000E+00	1.451E-08	0.000E+00	
SOURCE #	25 26	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	6.769E-09	0.000E+00	0.000E+00	6.769E-09	0.000E+00	
SOURCE #	27	0.000E+00	0.000E+00	0.000E+00	2.447E-07 1.456E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.447E-07	0.000E+00	
SOURCE #	28	0.000E+00	0.000E+0G	0.000E+00	1.278E-08	0.000E+00	0.000E+00	1.456E-07 1.278E-08	0.000E+00 0.000E+00	
SOURCE #	29 30	0.000E+00	0.000E+00	0.000E+00	1.319E-08	0.000E+00	0.000E+00	1.319E-08	0.000E+00	
SOURCE #	31	0.000E+00 0.000E+00	0.000 <b>E+00</b> 0.000 <b>E+00</b>	0.000E+00 0.000E+00	2.064E-08	0.000E+00	0.000E+00	2.064E-08	0.000E+00	
SOURCE #	32	0.000E+00	0.000E+00	0.000E+00	1.546E-08 9.053E-09	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.546E-08 9.053E-09	0.000E+00	
SOURCE #	33	0.000E+00	0.000E+00	0.000E+00	8.360E-10	0.000E+00	0.000E+00	8.360E-10	0.000E+00 0.000E+00	
SOURCE #	34 35	0.000E+00	0.000E+00	0.000E+00	8.680E-10	0.000E+00	0.000E+00	8.680E-10	0.000E+00	•
SOURCE #	36	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.368E-09	0.000E+00	0.000E+00	1.368E-09	0.000E+00	
SOURCE #	37	0.000E+00	0.000E+00	0.000E+00	6.691E-08 3.881E-08	0.000E+00	0.000E+00 0.000E+00	6.691E-08 3.881E-08	0.000E+00	
SOURCE #	38	0.000E+00	0.000E+00	0.000E+00	3.709E-09	0.000E+00	0.000E+00	3.709E-09	0.000E+00 0.000E+00	
SOURCE #	39 40	0.000E+00	0.000E+00	0.000E+00	3.869E-09	0.000E+00	0.000E+00	3.869E-09	0.000E+00	
SOURCE #	41	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	6.130E-09	0.000E+00	0.000E+00	6.130E-09	0.000E+00	
SOURCE #	42	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	43	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	44	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
	4.6					U. UUUE FUU				
SOURCE #	45 46	0.000E+00	0.000E+00	0.000E+00	2.862E-08	0.000E+00	0.000E+00	2.862E-08	0.000E+00	
	46									
SOURCE #		0.000E+00	0.000E+00	0.000E+00	2.862E-08	0.000E+00	0.000E+00	2.862E-08	0.000E+00	
Source #	46 SUM =	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.862E-08 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.862E-08 0.000E+00	0.000E+00 0.000E+00	
Source #	46	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06	0.000E+00 0.000E+00	<b>-</b> 5 000∇-03
Source #	46 SUM =	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06	0.000E+00 0.000E+00	= 5.000E-03
Source #	46 SUM =	0.000E+00 0.000E+00 0.000E+00 ACCEPTABLE	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03	0.000E+00 0.000E+00 0.000E+00 BACKG. (ug/t	0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06 +00 CRAL DOS	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d)	= 5.000E-03
SOURCE # SOURCE #	SUM =	0.000E+00 0.000E+00 0.000E+00 ACCEPTABL	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06	0.000E+00 0.000E+00	= 5.000E-03
SOURCE #  POLLU  SOURCE #	SUM =	0.000E+00 0.000E+00 0.000E+00 ACCEPTABLI	0.000E+00 0.000E+00 0.000E+00 E EXPOSURE 11 CNS 0.000E+00	0.000E+00 0.000E+00 0.000E+00 EVEL (ug/m3) INMUN 0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03 KIDN 1.826E-06	0.000E+00 0.000E+00 0.000E+00 BACKG. (ug/s LIVER 1.826E-06	0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06 +00 CRAL DOS	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d)	= 5.000E-03
SOURCE # SOURCE # SOURCE # SOURCE #	SUM =	0.000E+00 0.000E+00 0.000E+00 ACCEPTABLI CV 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 E EXPOSURE LI CNS 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 EVEL (ug/m3) TRAUN 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03 KIDN 1.826E-06 1.215E-06	0.000E+00 0.000E+00 0.000E+00 BACKG. (ug/v LIVER 1.826E-06 1.215E-06	0.000E+00 0.000E+00 0.000E+00 ma3) = 0.000E REPRO 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06 +00 CRAL DOSI RESP 1.826E-06 1.215E-06	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d) SKIN 0.000E+00 0.000E+00	= 5.000E-03
SOURCE #  SOURCE #  SOURCE #  SOURCE #  SOURCE #  SOURCE #	SUM =	0.000E+00 0.000E+00 0.000E+00 ACCEPTABL CV 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 E EXPOSURE LI CNS 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 EVEL (ug/m3) PP#UN 0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03 KIDN 1.826E-06 1.215E-06 1.460E-06	0.000E+00 0.000E+00 0.000E+00 BACKG. (ug/s LIVER 1.826E-06 1.215E-06 1.460E-06	0.000E+00 0.000E+00 0.000E+00 m3) = 0.000E REFRC 0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06 H-00 CRAL DOS: RESP 1.826E-06 1.215E-06	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d) SKIN 0.000E+00 0.000E+00 0.000E+00	= 5.000E-03
SOURCE #	1 2 3 4 5	0.000E+00 0.000E+00 0.000E+00 ACCEPTABL CV 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 E EXPOSURE LI CNS 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 EVEL (ug/m3) TRAUN 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03 KIDN 1.826E-06 1.215E-06	0.000E+00 0.000E+00 0.000E+00 BACKG. (ug/s LIVER 1.826E-06 1.215E-06 1.460E-06 2.101E-06	0.000E+00 0.000E+00 0.000E+00 m3) = 0.000E REPRO 0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06 +00 CRAL DOS: RESP 1.826E-06 1.215E-06 1.460E-06 2.101E-06	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d) SKIN 0.000E+00 0.000E+00 0.000E+00	= 5.000E-03
SOURCE #	12 2 3 4 5 6	0.000E+00 0.000E+00 0.000E+00 ACCEPTABLI CV 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 E EXPOSURE L1 CNS 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03 KIDN 1.826E-06 1.215E-06 1.460E-06 2.101E-06 2.958E-07 5.157E-07	0.000E+00 0.000E+00 0.000E+00 BACKG. (ug/s LIVER 1.826E-06 1.215E-06 1.460E-06 2.958E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06 H-00 CRAL DOS: RESP 1.826E-06 1.215E-06	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d) SKIN 0.000E+00 0.000E+00 0.000E+00	≈ 5.000E-03
SOURCE #	1 2 3 4 5	0.000E+00 0.000E+00 0.000E+00 ACCEPTABLI CV 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 E EXPOSURE LI CNS 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 EVEL (ug/m3) EVEL (ug/m3) 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03 KIDN 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 LIVER 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07	0.000E+00 0.000E+00 0.000E+00 ma3) = 0.000E REPRO 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06 +00 CRAL DOS: 	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d) SKIN 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	- 5.000E-03
SOURCE #	12 23 34 56 77 89	0.000E+00 0.000E+00 0.000E+00 ACCEPTABLI CV 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 E EXPOSURE LI CNS 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 EVEL (ug/m3) EVEL (ug/m3) 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03 KIDN 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.045E-07	0.000E+00 0.000E+00 0.000E+00 BACKG. (ug/s LIVER 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.045E-07	0.000E+00	2.862E-08 0.000E+00 1.170E-06 +00 ORAL DOS RESP 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.045E-07	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d) SKIN 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	= 5.000E-03
SOURCE #	11 22 3 4 5 6 6 7 7 8 9 100	0.000E+00 0.000E+00 0.000E+00 ACCEPTABLI CV 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 E EXPOSURE LI CNS 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 EVEL (ug/m3) EVEL (ug/m3) 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03 KIDN 1.826E-06 1.215E-06 1.460E-06 2.958E-07 3.362E-07 3.362E-07 4.864E-07 4.864E-07 5.405E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 LIVER 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07	0.000E+00 0.000E+00 0.000E+00 ma3) = 0.000E REPRO 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06 H-00 CRAL DOS: RESP 1.826E-06 1.215E-06 2.938E-07 5.157E-07 3.362E-07 4.864E-07	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d) SKIN 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	= 5.000E-03
SOURCE #	12 23 3 4 5 6 7 7 8 9 10	0.000E+00 0.000E+00 0.000E+00 CV 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 E EXPOSURE LI  CNS 0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03 KIDN 1.826E-06 1.215E-06 1.460E-06 2.958E-07 3.362E-07 3.362E-07 4.864E-07 4.864E-07	0.000E+00 0.000E+00 0.000E+00 BACKG. (ug/s LIVER 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.045E-07 4.864E-07 5.405E-07	0.000E+00	2.862E-08 0.000E+00 1.170E-06 H-00 CRAL DOS: RESP 1.826E-06 1.215E-06 1.460E-06 2.958E-07 3.362E-07 3.362E-07 3.045E-07 4.864E-07 1.614E-07	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d) SKIN 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	= 5.000E-03
SOURCE #	11 22 3 4 5 6 6 7 7 8 9 100	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 E EXPOSURE LI CNS 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03 KIDN 1.826E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.45E-07 5.405E-07 1.614E-07 1.695E-07	0.000E+00 0.000E+00 0.000E+00 BACKG. (ug/s LIVER 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.045E-07 4.864E-07 5.405E-07	0.000E+00	2.862E-08 0.000E+00 1.170E-06 H-00 CRAL DOS: RESP 1.826E-06 1.215E-06 2.958E-07 5.157E-07 3.362E-07 5.45E-07 1.645E-07 1.695E-07	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d) SKIN 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	≈ 5.000E-03
SOURCE #	12 12 13 14 15 16 17 18 19 10 11 11 12 13 14	0.000E+00 0.000E+00  ACCEPTABL  CV 0.000E+00	0.000E+00 0.000E+00 0.000E+00 E EXPOSURE L1 CNS 0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03 **XIDN 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.045E-07 4.864E-07 5.405E-07 1.614E-07 1.695E-07	0.000E+00 0.000E+00 0.000E+00 BACKG. (ug/s LIVER 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.045E-07 4.864E-07 4.864E-07 1.614E-07 1.614E-07 2.526E-05	0.000E+00	2.862E-08 0.000E+00 1.170E-06 +00 ORAL DOSE RESP 1.82E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.405E-07 4.864E-07 4.864E-07 1.614E-07 1.614E-07 2.526E-05	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d) SKIN 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	- 5.000E-03
SOURCE #	12 12 13 14 15 16 17 18 19 10 11 11 12 13 14	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03 KIDN 1.826E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.157E-07 5.45E-07 1.614E-07 1.695E-07 2.526E-05 1.687E-05 2.091E-05	0.000E+00 0.000E+00 0.000E+00 BACKG. (ug/s LIVER 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.045E-07 4.864E-07 5.405E-07	0.000E+00	2.862E-08 0.000E+00 1.170E-06 H-00 CRAL DOS: RESP 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.045E-07 5.405E-07 1.614E-07 1.695E-07 2.526E-05 1.687E-05	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d) SKIN 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	= 5.000E-03
SOURCE #	11 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16	0.000E+00 0.000E+00  ACCEPTABL  CV 0.000E+00	0.000E+00 0.000E+00 0.000E+00 E EXPOSURE LI  CNS 0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03 KIDN 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.045E-07 4.864E-07 5.405E-07 1.695E-07 1.695E-05 1.687E-05 2.991E-05 2.967E-05	0.000E+00 0.000E+00 0.000E+00 0.000E+00 EACKG. (ug/s LIVER 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.045E-07 4.864E-07 5.045E-07 1.614E-07 1.6195E-07 1.6195E-07 1.6195E-07 1.626E-05 2.991E-05 2.991E-05	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.045E-07 5.045E-07 1.614E-07 1.695E-07 1.695E-07 1.695E-05 1.687E-05 2.9967E-05	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d) SKIN 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	= 5.000E-03
SOURCE #	12 12 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	0.000E+00 0.000E+00  ACCEPTABL  CV 0.000E+00	0.000E+00 0.000E+00 0.000E+00 E EXPOSURE L1  CNS 0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03 KIDN 1.826E-06 1.460E-06 2.101E-06 2.157E-07 3.362E-07 5.945E-07 5.945E-07 1.614E-07 1.614E-07 1.658E-07 2.56E-05 2.991E-05 4.201E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 EACKG. (ug/s LIVER 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.045E-07 4.864E-07 5.045E-07 1.614E-07 1.6195E-07 1.6195E-07 1.6195E-07 1.626E-05 2.991E-05 2.991E-05	0.000E+00	2.862E-08 0.000E+00 1.170E-06 H-00 CRAL DOS: RESP 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.045E-07 5.045E-07 1.614E-07 1.614E-07 1.695E-07 2.526E-05 2.091E-05 4.201E-06	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d)  SKIN 0.000E+00	= 5.000E-03
SOURCE #	12 23 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18	0.000E+00 0.000E+00  ACCEPTABL  CV 0.000E+00	0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06  = 2.000E-03  KIDN 1.826E-06 1.215E-06 1.460E-06 2.157E-07 3.362E-07 5.157E-07 4.864E-07 4.864E-07 1.614E-07 1.695E-07 1.614E-07 1.695E-05 1.687E-05 2.091E-05 4.201E-06 7.183E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 EACKG. (ug/s LIVER 1.826E-06 1.215E-06 1.215E-06 2.101E-06 2.958E-07 5.157E-07 3.362E-07 5.405E-07 4.864E-07 1.695E-07 2.526E-05 1.687E-05 4.201E-06 4.201E-06 4.201E-06 7.1838E-06	0.000E+00	2.862E-08 0.000E+00 1.170E-06 H-00 CRAL DOS: RESP 1.826E-06 1.215E-06 2.958E-07 5.157E-07 3.362E-07 5.405E-07 1.695E-07 2.526E-05 1.697E-05 2.967E-05 4.201E-06 7.183E-06	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d)  SKIN 0.000E+00	≈ 5.000E-03
SOURCE #	1 2 3 3 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	0.000E+00	0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03 **XIDN 1.826E-06 1.460E-06 2.101E-06 2.958E-07 5.157E-07 3.362E-07 5.045E-07 1.614E-07 1.614E-07 1.695E-07 2.526E-05 2.991E-05 2.991E-05 4.201E-06 7.183E-06 1.417E-06 9.611E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 EACKG. (ug/s LIVER 1.826E-06 1.215E-06 1.460E-06 2.101E-06 2.101E-07 3.362E-07 5.045E-07 4.864E-07 5.045E-07 1.614E-07 1.6195E-07 1.6195E-05 2.091E-05 2.967E-05 4.201E-06 7.183E-06 1.417E-05	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.826E-06 1.215E-06 1.460E-06 2.958E-07 3.362E-07 3.362E-07 3.362E-07 3.4864E-07 3.405E-07 1.614E-07 1.614E-07 1.614E-07 1.625E-05 1.687E-05 2.991E-05 2.967E-05 4.201E-06 7.183E-06 1.417E-05	0.000E+00	- 5.000E-03
SOURCE #	1 2 3 4 5 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21	0.000E+00	0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06  = 2.000E-03  KIDN 1.826E-06 1.215E-06 1.460E-06 2.958E-07 3.362E-07 4.864E-07 4.864E-07 4.864E-07 1.695E-07 1.695E-05 1.587E-05 2.9967E-05 4.201E-06 1.417E-05 9.611E-06 9.502E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 EACKG. (ug/s LIVER 1.826E-06 1.215E-06 1.215E-06 2.101E-06 2.958E-07 5.157E-07 3.362E-07 5.045E-07 4.864E-07 1.614E-07 1.637E-05 2.967E-05 4.201E-06 7.183E-06 1.417E-05 9.611E-06	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.82E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.405E-07 1.614E-07 1.695E-07 1.614E-07 1.695E-05 1.687E-05 2.991E-05 4.201E-06 1.417E-05 9.611E-06	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d)  SKIN 0.000E+00	- 5.000E-03
SOURCE #	1 2 3 4 5 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21	0.000E+00	0.000E+00 0.000E+00 0.000E+00 E EXPOSURE LI  CNS 0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.215E-06 1.245E-06 1.460E-06 2.958E-07 3.362E-07 3.362E-07 3.362E-07 3.464E-07 4.864E-07 1.614E-07 1.626E-05 1.627E-05 2.091E-05 2.091E-05 2.091E-06 7.183E-06 7.183E-06 1.417E-05 9.611E-06 9.502E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 ELIVER 1.826E-06 1.215E-06 1.460E-06 2.958E-07 3.362E-07 3.362E-07 3.045E-07 4.864E-07 5.045E-07 1.614E-07 1.614E-07 1.625E-05 2.991E-05 2.991E-05 2.991E-05 4.201E-06 7.183E-06 1.417E-05 9.502E-06	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.826E-06 1.460E-06 2.101E-06 2.958E-07 3.362E-07 3.362E-07 3.362E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-05 2.961E-05 2.961E-05 2.961E-05 1.417E-05 9.611E-06 9.502E-06	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d)  SKIN 0.000E+00	= 5.000E-03
SOURCE # SOURCE # FOLLO FOLLO SOURCE #	1 2 3 4 5 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21	0.000E+00	0.000E+00 0.000E+00 0.000E+00 E EXPOSURE LI  CNS 0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03 ***EDN** 1.826E-06 1.215E-06 2.101E-06 2.958E-07 5.157E-07 3.362E-07 5.157E-07 3.362E-07 1.695E-07 1.695E-07 2.526E-05 1.695E-05 2.967E-05 4.201E-06 7.183E-06 1.417E-05 9.611E-06 9.502E-06 1.477E-05 2.239E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 ELIVER 1.826E-06 1.215E-06 1.460E-06 2.958E-07 3.362E-07 3.362E-07 3.045E-07 4.864E-07 5.045E-07 1.614E-07 1.614E-07 1.625E-05 2.991E-05 2.991E-05 2.991E-05 4.201E-06 7.183E-06 1.417E-05 9.502E-06	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.21SE-06 1.460E-06 1.460E-06 2.958E-07 3.362E-07 3.04SE-07 3.04SE-07 1.614E-07 1.695E-07 2.526E-05 1.687E-05 2.091E-06 1.417E-05 9.611E-06 9.502E-06 1.477E-06 1.477E-06	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d)  SKIN 0.000E+00	= 5.000E-03
SOURCE #	1 2 3 4 5 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21	0.000E+00	0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.215E-06 1.460E-06 2.101E-06 2.958E-07 3.362E-07 3.362E-07 3.405E-07 4.864E-07 5.157E-07 3.642E-07 5.405E-07 1.614E-07 1.638E-08 2.091E-05 2.091E-05 2.967E-05 4.201E-06 7.183E-06 1.417E-05 9.502E-06 1.477E-05 2.239E-06 4.131E-06 9.3884E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.215E-06 1.215E-06 1.2460E-06 2.958E-07 3.362E-07 3.362E-07 3.465E-07 4.864E-07 5.405E-07 1.614E-07 1.614E-07 1.625E-05 2.991E-05 2.991E-05 2.991E-05 2.991E-05 2.991E-05 2.991E-05 2.991E-05 2.991E-05 2.991E-05 2.991E-05 2.991E-05 2.991E-05 2.991E-05 2.991E-05 3.884E-06 9.502E-06 1.417E-05 9.611E-06 9.502E-06 4.131E-06 4.131E-06	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.045E-07 5.045E-07 5.045E-07 1.614E-07 1.695E-07 2.526E-05 1.687E-05 2.967E-05 4.201E-06 7.183E-06 1.417E-05 9.611E-06 1.477E-05 2.239E-06 1.477E-05 2.239E-06 1.477E-05	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d)  SKIN 0.000E+00	= 5.000E-03
SOURCE #	1 2 3 4 5 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21	0.000E+00	0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06  - 2.000E-03  KIDN 1.826E-06 1.215E-06 1.460E-06 2.958E-07 3.362E-07 3.362E-07 4.865E-07 4.865E-07 4.865E-07 4.865E-07 4.865E-07 4.865E-07 4.865E-07 4.865E-07 4.865E-05 1.57E-05 4.201E-06 1.417E-05 9.512E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.215E-06 1.215E-06 1.215E-06 1.215E-07 3.362E-07 5.157E-07 4.864E-07 4.864E-07 4.864E-07 1.614E-07 1.614E-07 1.637E-05 4.201E-06 9.502E-05 1.417E-05 9.502E-06 1.417E-05 9.502E-06 1.417E-06 9.502E-06 1.417E-06 9.502E-06 1.417E-06 9.502E-06 1.417E-06 9.502E-06 1.417E-06 9.502E-06 1.417E-06 9.502E-06 1.417E-06 9.502E-06	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.82E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 3.362E-07 1.614E-07 1.695E-07 1.614E-07 1.695E-05 1.687E-05 4.201E-06 1.417E-05 9.611E-06 1.417E-05 9.502E-06 1.417E-05 9.502E-06 1.417E-06 3.884E-06 3.884E-06 3.884E-06	0.000E+00	≈ 5.000E-03
SOURCE #	12 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	0.000E+00	0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.215E-06 1.215E-06 1.460E-06 2.958E-07 3.362E-07 3.362E-07 3.362E-07 3.4864E-07 4.864E-07 1.695E-07 1.695E-07 1.695E-05 2.091E-05 2.091E-05 2.091E-05 4.201E-06 7.183E-06 9.502E-06 1.477E-05 2.239E-06 4.477E-05 2.239E-06 3.884E-06 6.962E-05 4.143E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 1.215E-06 1.215E-06 1.215E-06 1.215E-06 1.362E-07 3.362E-07 3.362E-07 4.864E-07 1.695E-07 1.695E-07 1.687E-05 2.091E-05 2.967E-05 4.201E-06 7.182E-06 1.417E-05 9.611E-06 9.502E-06 1.417E-05 9.612E-06 1.417E-05 9.612E-06 1.417E-05 9.612E-06 1.417E-05 9.612E-06 1.417E-05 2.239E-06 4.131E-06 3.884E-06 6.962E-06	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.215E-06 1.215E-06 1.460E-06 2.101E-06 2.101E-07 3.362E-07 3.362E-07 3.362E-07 3.362E-07 4.864E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-05 2.967E-05 2.967E-05 4.201E-06 7.183E-06 1.417E-05 9.611E-06 9.502E-06 1.477E-05 2.239E-06 1.477E-05 2.239E-06 3.884E-06 6.962E-06 4.143E-06	0.000E+00	= 5.000E-03
SOURCE #	11 12 13 14 15 16 17 18 19 20 21 223 224 225 27 28 29	0.000E+00 0.000E+00  ACCEPTABL  CV 0.000E+00	0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 = 2.000E-03 **IDN 1.826E-06 1.215E-06 1.460E-06 2.101E-06 2.101E-06 2.157E-07 3.642E-07 5.405E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-07 2.091E-05 2.091E-05 2.091E-06 7.183E-06 1.417E-05 9.502E-06 1.417E-05 9.502E-06 1.417E-05 3.638E-06 4.131E-06 9.502E-06 4.131E-06 9.502E-06 4.131E-06 9.62E-05 4.143E-05 3.638E-06	0.000E+00 0.000E	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.21SE-06 1.21SE-06 1.460E-06 2.101E-06 2.101E-06 2.157E-07 3.362E-07 5.045E-07 5.045E-07 1.618E-07 1.625E-07 2.526E-05 2.967E-05 2.967E-05 2.967E-05 2.967E-05 2.967E-05 4.201E-06 7.183E-06 1.477E-05 9.611E-06 9.502E-06 1.477E-05 9.613E-06	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d)  SKIN 0.000E+00	= 5.000E-03
SOURCE # SOU	12 12 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	0.000E+00	0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.215E-06 1.460E-06 2.101E-06 2.101E-06 2.958E-07 3.362E-07 3.362E-07 3.464E-07 5.405E-07 1.614E-07 1.614E-07 1.63E-06 1.417E-05 2.967E-05 4.201E-06 7.183E-06 1.417E-05 9.502E-06 1.417E-05 1.417E-	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.215E-06 1.215E-06 1.215E-06 1.215E-06 1.362E-07 3.362E-07 3.362E-05 3.362E-06 3.37E-06 3.384E-06 6.384E-06 6.384E-06 6.384E-06 6.384E-06 6.3873E-06	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.215E-06 1.215E-06 1.460E-06 2.101E-06 2.101E-07 3.362E-07 3.362E-07 3.362E-07 3.362E-07 4.864E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-05 2.967E-05 2.967E-05 4.201E-06 7.183E-06 1.417E-05 9.611E-06 9.502E-06 1.477E-05 2.239E-06 1.477E-05 2.239E-06 3.884E-06 6.962E-06 4.143E-06	0.000E+00 0.000E+00 0.000E+00 E (mg/kg-d)  SKIN 0.000E+00	= 5.000E-03
SOURCE #	1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 21 22 22 24 25 26 27 28 29 30 31	0.000E+00	0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.215E-06 1.460E-06 2.101E-06 2.101E-06 2.958E-07 3.362E-07 3.362E-07 3.464E-07 5.405E-07 1.614E-07 1.614E-07 1.63E-06 1.417E-05 2.967E-05 4.201E-06 7.183E-06 1.417E-05 9.502E-06 1.417E-05 1.417E-	0.000E+00 0.000E	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.21SE-06 1.21SE-06 1.460E-06 2.101E-06 2.101E-06 2.157E-07 3.362E-07 5.045E-07 5.045E-07 1.614E-07 1.614E-07 1.62SE-07 2.526E-05 2.967E-05 2.967E-05 2.967E-05 2.967E-05 2.967E-05 2.967E-05 3.638E-06 1.417E-05 9.611E-06 9.502E-06 1.477E-05 9.611E-06 9.502E-06 1.477E-05 9.611E-06 9.512E-06 3.638E-06 3.755E-06 3.755E-06 3.873E-06 3.873E-06 4.400E-06	0.000E+00	= 5.000E-03
SOURCE # SOU	12 12 13 14 15 16 17 18 19 20 12 22 23 245 267 28 29 31 23 33 33 33 33	0.000E+00	0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.215E-06 1.460E-06 1.215E-06 1.460E-06 2.101E-06 2.101E-06 2.102E-07 3.362E-07 3.362E-07 4.864E-07 1.695E-07 1.695E-07 1.695E-05 1.687E-05 2.091E-06 7.183E-06 1.417E-05 9.611E-06 9.502E-06 1.477E-05 2.239E-06 4.131E-06 3.884E-06 4.131E-06 3.884E-06 4.131E-06 3.755E-06 5.873E-06 4.400E-06 4.400E-06 4.576E-06	0.000E+00 0.000E	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.826E-06 1.215E-06 1.460E-06 2.958E-07 5.157E-07 3.362E-07 5.452E-07 5.452E-07 5.405E-07 1.614E-07 1.695E-07 1.614E-07 1.695E-05 2.9967E-05 4.201E-06 7.183E-06 1.417E-05 9.611E-06 9.621E-06 1.477E-05 2.239E-06 1.477E-05 2.396E-05 1.431E-06 3.884E-06 6.962E-05 4.143E-05 3.638E-06 4.143E-05 3.755E-06 3.755E-06 3.755E-06 3.755E-06 3.755E-06 3.873E-06 4.400E-06	0.000E+00	≈ 5.000E-03
SOURCE # SOU	11 12 13 14 15 16 17 18 19 20 21 223 245 226 27 28 29 30 31 32 33 34	0.000E+00	0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.2170E-06 1.215E-06 1.460E-06 2.101E-06 2.101E-06 2.101E-06 2.157E-07 3.364E-07 5.405E-07 1.614E-07 1.614E-07 1.614E-07 1.625E-05 2.091E-05 2.091E-05 2.091E-06 7.183E-06 7.183E-06 1.417E-05 9.501E-06 7.143E-06 9.502E-06 1.417E-05 2.239E-06 4.131E-06 9.502E-06 3.755E-06 4.143E-05 3.538E-06 3.755E-06 2.576E-06 2.576E-06 2.378E-07	0.000E+00 0.000E	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.215E-06 1.215E-06 1.460E-06 2.101E-06 2.101E-06 2.101E-07 3.362E-07 3.362E-06 3.362E-06 3.362E-06 3.362E-06 3.362E-06 3.362E-06 3.373E-06 3.373E-06 3.373E-06 3.373E-06 3.373E-06 3.373E-06	0.000E+00	= 5.000E-03
SOURCE # SOU	12 3 4 5 6 7 7 8 9 10 11 12 11 12 11 15 11 16 11 7 18 120 21 122 23 24 25 26 7 28 29 30 13 22 33 34 35	0.000E+00	0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.215E-06 1.215E-06 1.460E-06 2.101E-06 2.101E-06 2.101E-07 3.362E-07 3.362E-07 3.464E-07 1.695E-05 2.091E-05 4.201E-06 7.183E-06 7.183E-06 1.417E-05 2.239E-06 1.477E-05 2.239E-06 4.471E-06 3.884E-06 6.962E-08 3.143E-06 3.143E-07 3.163E-06 3.143E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.000E+00 1.000E+00 1.10E-06 1.215E-06 1.215E-06 1.460E-06 2.101E-06 2.101E-07 3.662E-07 1.609E-07 1.609E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-05 2.091E-05 2.967E-05 4.201E-06 7.183E-06 1.417E-05 9.611E-06 9.502E-06 1.417E-05 2.39E-06 4.143E-05 3.638E-06 6.962E-05 3.638E-06 6.962E-05 3.638E-06 6.962E-06 3.755E-06 3.873E-06 4.400E-06 2.378E-07 2.470E-07 2.470E-06	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.82E-06 1.215E-06 1.460E-06 2.958E-07 3.362E-07 3.362E-07 3.362E-07 1.614E-07 1.695E-07 1.647E-05 4.201E-06 1.417E-05 9.610E-06 1.417E-05 9.610E-06 1.417E-05 9.610E-06 1.417E-05 9.502E-06 1.431E-06 3.848E-06 3.755E-06 3.755E-06 3.755E-06 3.755E-06 3.755E-06 3.755E-06 3.755E-06 3.755E-06 3.755E-06	0.000E+00	= 5.000E-03
SOURCE # SOU	11 12 13 14 15 16 17 18 19 20 21 223 245 226 27 28 29 30 31 32 33 34	0.000E+00	0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.210E-06 1.210E-06 1.460E-06 2.101E-06 2.101E	0.000E+00 0.000E	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.215E-06 1.246E-06 2.9158E-07 3.362E-07 3.362E-07 3.362E-07 3.362E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-05 2.091E-06 7.183E-06 1.417E-05 2.091E-06 7.183E-06 3.1477E-05 2.239E-06 1.417E-05 2.378E-06 3.84E-06 6.962E-05 1.417E-05 3.638E-06 3.755E-06 3.755E-07 3.75E-06	0.000E+00	= 5.000E-03
SOURCE # SOU	12 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 23 33 34 35 6	0.000E+00	0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.170E-06 1.170E-06 1.215E-06 1.460E-06 1.215E-06 1.460E-06 2.101E-06 2.101E-06 2.157E-07 3.362E-07 5.157E-07 4.864E-07 1.695E-07 1.614E-07 1.695E-05 1.687E-05 2.091E-05 2.091E-05 2.101E-06 3.157E-06 3.11E-06 3.884E-06 6.962E-05 4.131E-06 3.884E-06 6.962E-05 4.143E-05 3.638E-06 6.962E-05 4.143E-05 3.638E-06 6.962E-05 4.143E-05 3.755E-06 5.873E-06 2.378E-07 2.378E-07 2.470E-07 3.893E-07 1.904E-05	0.000E+00 0.000E	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.82E-06 1.215E-06 1.460E-06 2.958E-07 3.362E-07 3.362E-07 3.362E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-05	0.000E+00	= 5.000E-03
SOURCE # SOU	11	0.000E+00	0.000E+00	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.210E-06 1.210E-06 1.460E-06 2.101E-06 2.101E	0.000E+00 0.000E	0.000E+00	2.862E-08 0.000E+00 1.170E-06 1.170E-06 1.170E-06 1.215E-06 1.246E-06 2.958E-07 3.362E-07 3.362E-07 3.362E-07 3.362E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-07 1.614E-05 2.091E-06 7.183E-06 1.417E-05 2.091E-06 7.183E-06 1.417E-05 2.091E-06 7.183E-06 3.755E-06 1.417E-05 2.239E-06 4.131E-06 9.502E-06 1.417E-05 3.638E-06 3.755E-06 4.131E-06 9.502E-06 1.477E-05 2.239E-06 4.131E-06 9.502E-06 2.378E-07 3.838E-06 3.755E-06 3.755E-07 3.75E-06	0.000E+00	= 5.000E-03

SOURCE # 41 SOURCE # 42 SOURCE # 43 SOURCE # 44 SOURCE # 45	2 0	0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 4.744E-07 0.000E+00	0.000E+00 0.000E+00 0.000E+00 4.744E-07 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 4.744E-07 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
	SUM = 0	0.000E+00	0.000E+00	0.000E+00	3.386E-04	3.386E-04	0.0002+00	3.386E-04	0.000E+00

	FULL	TIMIT CO	تسلطاهما عشباباه	EVICORE FE	(cm/gn) mav.	- 2.4002100	uncas. (us/u				
			CV	CNS	IMMUN	KIDN	LIVER	REPRO	RESP	SKIN	
			C.	Cas	TEXTON	ALDIN	14.724C	200	1441	John	
COIT	CE #	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.969E-08	0.000E+00	
	Œ J	ž	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.310E-08	0.000E+00	
SOUR		3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.575E-08	0.000E+00	
SOUT		ž	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.266E-08	0.000E+00	
SOUT		7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.191E-09	0.000E+00	
SOU		5 6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.564E-09	0.000E+00	
SOU		7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.624E-09	0.000E+00	
SOUT		á	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.437E-09	0.000E+00	
SOUT	- I	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.245E-09	0.000E+00	
SOUT	1	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	C_COOE+OC	5.826E-09	C.CCCE+CO	
SOUT		10 11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.7402-09	0.000E+00	
SOU		12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.827E-09	0.000E+00	
SOU		13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.724E-07	0.000E+00	
SOU		14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.820E-07	0.000E+00	
SOU		15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.256E-07	0.000E+00	
SOU		16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.201E-07	0.000E+00	
SCU		17	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.533E-08	0.000E+00	
SOU		18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.750E-08	0.000E+00	
SOU		19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.690E-07	0.000E+00	
SOU		20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.146E-07	0.000E+00	
SOU	7	20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.132E-07	0.000E+00	
SCU	7	22	0.000E+00	0.000E+00	3.000E+00	0.000E+00	0.000E+00	0.000E+00	1.760E-07	0.000E+00	٠,
SOU		21 22 23	0.000E+00	0.000E+00	3.000E+00	0.000E+00	0.000E+00	0.000E+00	2.667E-08	0.000E+00	
SOU		24	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.921E-08	0.000E+00	
SOU		25	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.438E-08	0.000E+00	
SOU		26	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.296E-07	0.000E+00	
SOU		27	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.936E-07	0.000E+00	
	RCE :	28	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.336E-08	0.000E+00	
SOU			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.475E-08	0.000E+00	
	RCE I	29 30	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.998E-08	0.000E+00	
						0.000E+00	0.000E+00	0.000E+00	5.241E-08	0.000E+00	
	RCE !	31	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.070E-08	0.000E+00	
	RCE 1	32	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00	2.835E-09	0.000E+00	
	RCE :	9 33 9 34	0.0002+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.944E-09	0.000E+00	
		35	0.000E+00	0.000E+00			0.000E+00	0.000E+00	4.639E-09	0.000E+00	
	RCZ (		0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	2.270E-07	0.000E+00	
			0.000E+00				0.000E+00	0.000E+00	1.316E-07	0.000E+00	
	RCZ :	37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.258E-08	0.000E+00	
		38	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	1.312E-08	0.000E+00	
	RCE :	39	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00	2.079E-08	0.000E+00	
	RCE :	40	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
		# 41	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	
		42	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00			0.000E+00	
	IRCE :	<b>#</b> 43	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		
		# 44	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.000E+00	
	RCE	45	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SO	RCE	<b>≠</b> 46	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	

	LUTANT								(mg/kg-d) = 0.000E+00	
		CA	C312	IMMUN	KIDN	LIVE	r repro	RESP	SKIN	
OURCE		0.000E+00		.000E+00	0.000E+00	0.000E+0		.000E+00	0.0002+00	

0.000E+00

SOURCE #	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0005+00	0.000£700	J.UUUETUU
SOURCE #	2	0.000E+00	0.300E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	3	0.000E+00							
SOURCE #	4	0.000E+00	G.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	5	0.000E+00							
SOURCE #	- 6	0.000E+00							
SOURCE #	7	0.000E+00							
SOURCE #	Ŕ	0.000E+00							
SOURCE #	ā	0.000E+00							
SOURCE #	10	0.000E+00							
					0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	11	0.000E+00	0.000E+00	0.000E+00					0.000E+00
SCURCE #	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E÷00	0.000E+00	0.000E+00	
Source #	13	0.000E+00							
SOURCE #	14	0.000E+00							
SOURCE #	15	0.000E+00							
SOURCE #	16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00GE+00	0.000E+00
SCURCE #	17	0.000E+00							
SOURCE #	18	0_000E+00	0.000E+00						
SOURCE #	19	0.000E+00							
SOURCE #	20	0.000E+00							
SOURCE #	21	0.000E+00	0_000E+00						
SOURCE #	22	0.000E+00							
						*****	0.000E+00	0.000E+00	0.000E+00
SOURCE #	23	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00			
Source #	24	0.000E+00							
SCURCE #	25	0.000E+00	0.900E+00						

SUM = 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.880E-06

SOURCE SO	26 27 28 29 30 31 32 33 34 35 37 38 39	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	
SOURCE #	40 41	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	
Source # Source # Source #	42 43 44	0.000Z+00 0.000Z+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE +	45 46	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00	
	SUM =	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000Z+00	0.000E+00	0.000E+00	
POLLU	TANT HCN	ACCEPTABLE	EXPOSURE LI	EVEL (ug/m3)	- 7.000E+01	BACKG. (ug/m	m3) = 0.000E4	-00 ORAL DOSE	(mg/kg-d)	- 0.000E+00
		CA	CNS	IM-AUN	KIDN	LIVER	REPRO	RESP	SKIN	
SOURCE #	1 2	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	3 4	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	5	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	7	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000 <b>Z+</b> 00 0.000 <b>Z+</b> 00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	_
SOURCE #	8 9	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	10 11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	12	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000 <del>2+0</del> 0 0.000 <del>2+0</del> 0	0.000Z+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	13 14	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000Z+00	0.000E+00	0.000E+00	
SOURCE #	15 16	0.000E+00	G.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	17	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	
Source #	18 19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	20	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
Source #	21 22	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	23	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	24 25	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	26	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	27 28	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	
SOURCE #	29 30	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	31	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	
SOURCE #	32 33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	
SOURCE #	34	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	35 36	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	37	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	38 39	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000Z+00 0.000Z+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	
SOURCE #	40 41	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	42	0.000E+00	2.447E-03 4.489E-02	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	43 44	0.000E+00 0.000E+00	0.000E+00 4.718E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	45 46	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE F	SUM =	0.000E+00 0.000E+00	0.000E+00 4.734E-02	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.0002+00	0.0002+00	0.000E+00	0.000E+00	
207.7.11						0.000E+00	0.900E+00	0.000E+00	0.000E+00	
	TANT Pb	AUCEPTABL	E EXPOSURE [	EVEL (ug/m3)	- 1.500E+00	BACKG (ug/	m3) = 0.000E-	+00 ORAL DOST	E (mg/kg-d)	= 4.300E-04
SOURCE #	•	C7	CTS	D4:UN	KIDN	LIVER	RETRO	RESP	SKIN	
SOURCE #	1 2	7.966E-08 5.301E-08	7.966E-08 5.301E-08	7.966E-08 5.301E-08	7.966E-08 5.301E-08	0.000E+00 0.000E+00	7.966Z-08 5.301E-08	0.000E+00	0.000E+00	
Source #	3	6.3722-08 9.170E-08	6.37ZE-08	6.37ZE-08	6.372E-08	0.000E+00	6.372E-08	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	5	1.291E-08	9.170E-08 1.291E-08	9.170E-08 1.291E-08	9.170E-08 1.291E-08	0.000E+00 0.000E+00	9.170E-08 1.291E-08	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	6 7	2.251E-08 1.470E-08	2.251E-08 1.470E-08	2.251E-08	2.251E-08	0.000E+00	2.251E-08	0.000E+00	0.000E+00	
SOURCE #	8	2.205E-08	2.205E-08	1.470E-08 2.205E-08	1.470E-08 2.205E-08	0.000E+00 0.000E+00	1.470E-08 2.205E-08	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	9 10	2.126Z-08 2.363E-08	2.126E-08 2.363E-08	2.126E-08 2.363E-08	2.126E-08 2.363E-08	0.000E+00	2.126E-08	0.000E+00	0.000E+00	
SOURCE #	11 12	7.054E-09 7.408E-09	7.054E-09	7.054E-09	7.054E-09	0.000E+00 0.000E+00	2.363E-08 7.054E-09	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
F		7.7005-07	7.408E-09	7.408E-09	7.408E-09	0.000E+00	7.408E-09	0.000E+00	0.000E+00	

SOURCE #	13 14 15 16 17 18 19 20 21 22 24 25 27 28 29 30 31 32 33 33 34 35 36 37 38 39 40 41 42 43 44 44 45 46 46 46 46 46 46 46 46 46 46 46 46 46	1.102E-06 7.361E-07 9.127E-07 1.295E-06 1.834E-07 3.135E-07 4.923E-07 3.338E-07 3.338E-07 3.300E-07 5.132E-07 7.773E-08 1.434E-07 2.418E-06 1.263E-07 1.304E-07 2.418E-06 1.263E-07 1.304E-07 2.528E-07 3.948E-08 8.264E-09 8.582E-09 1.353E-08 6.613E-07 3.663E-07 3.663E-07 3.663E-07 3.663E-07 3.663E-07 3.663E-07 3.663E-09 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.102E-06 7.361E-07 9.127E-07 1.295E-06 1.834E-07 3.135E-07 4.923E-07 3.338E-07 3.338E-07 3.338E-07 3.338E-07 1.434E-07 1.434E-07 1.439E-06 1.439E-06 1.439E-07 2.040E-07 2.040E-07 2.040E-07 3.358E-07 3.528E-07 3.538E-07 3.538E-08 6.613E-07 3.645E-09 1.353E-08 6.613E-07 3.645E-09 1.353E-07 3.645E-09 1.353E-07 3.645E-09 1.353E-07 3.645E-08 6.610E-00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.102E-06 7.361E-07 9.127E-07 1.295E-06 1.834E-07 3.135E-07 4.923E-07 3.338E-07 3.338E-07 3.338E-07 3.080E-07 2.040E-07 1.264E-07 1.264E-07 1.528E-07 1.528E-07 8.264E-09 1.353E-08 8.264E-09 1.353E-08 6.613E-07 3.665E-09 1.353E-08 6.65E-09 1.353E-08 6.00E+00 0.000E+00 0.000E+00 0.000E+00	1.102E-06 7.361E-07 9.127E-07 1.295E-06 1.834E-07 3.135E-07 4.923E-07 3.338E-07 3.338E-07 3.308E-07 5.132E-07 7.773E-08 1.434E-07 2.418E-06 1.439E-06 1.439E-06 1.439E-07 1.304E-07 2.040E-07 1.528E-07 8.264E-09 1.353E-08 8.264E-09 1.353E-07 3.385E-07 3.385E-07 3.385E-07 3.385E-07 3.385E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.102E-06 7.361E-07 9.127E-07 1.275E-06 1.834E-07 3.135E-07 4.923E-07 3.338E-07 3.338E-07 3.308E-07 5.132E-07 7.132E-08 1.434E-07 2.418E-06 1.439E-06 1.439E-06 1.439E-07 2.040E-07 1.528E-07 8.248E-07 8.248E-07 8.248E-09 1.353E-08 6.365E-09 1.353E-08 6.365E-09 1.353E-08 6.365E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.0002+00 0.0002+00	
POLLU	TANT 151	ACCEPTABLE	EXPOSURE LE	VEL (ug/m3)	- 4.000E-01	BACKG. (ug/m	n3) = 0.000E	HOO ORAL DOSE	(mg/kg-d) =	0.000E+00
		C7	CNS	IMMUN	KIDN	LIVER	REFRO	RES?	SKIN	
SCURCE #	1	0.000E+00	1.429E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.429E-06	0.000E+00	
SOURCE #	Ž 3	0.000E+00 0.000E+00	9.509E-07 1.143E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	9.509E-07 1.143E-06	0.000E+00 0.000E+00	
SOURCE #	4	0.000E+00	1.645E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.645E-06	0.000E+00	
SOURCE ≠	5 6	0.000E+00 0.000E+00	2.316E-07 4.038E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.316E-07 4.038E-07	0.000E+00 0.000E+00	
SOURCE #	7	0.000E+00	2.633E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.633E-07	0.000E+00	
SOURCE #	8 9	0.000E+00 0.000E+00	3.950E-07 3.809E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.950E-07 3.809E-07	0.000E+00 0.000E+00	
SOURCE #	10	0.000E+00	4.231E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.231E-07	0.000E+00	
SOURCE #	11	0.000E+00	1.264E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.264E-07	0.000E+00	
SOURCE #	12 13	0.000E+00 0.000E+00	1.327E-07 1.977E-05	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.327E-07 1.977E-05	0.000E+00 0.000E+00	
SOURCE #	14	0.000E+00	1.321E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.321E-05	0.000E+00	
SOURCE #	15 16	0.000E+00 0.000E+00	1.638E-05 2.324E-05	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.638E-05 2.324E-05	0.000E+00 0.000E+00	
SOURCE #	17	0.000E+00	3.290E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.290E-06	0.000E+00	
SOURCE #	18	0.000E+00	5.625E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.625E-06	0.000E+00	
SOURCE #	19 20	0.000E+00 0.000E+00	1.110E-05 7.523E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.110E-05 7.523E-06	0.000E+00 0.000E+00	
SOURCE #	21	0.000E+00	7.440E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.440E-06	0.000E+00	
SOURCE #	22 23	0.000E+00 0.000E+00	1.157E-05 1.753E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.157E-05 1.753E-06	0.000E+00 0.000E+00	
SOURCE #	24	0.000E+00	3.234E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.234E-06	0.000E+00	
SOURCE #		0.000E+00	3.04ZE-06	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.042E-06 5.451E-05	0.000E+00	
Source #	26 27	0.000E+00 0.000E+00	5.451E-05 3.244E-05	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.244E-05	0.000E+00	
SOURCE #	28	0.000E+00	2.848E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.848E-06	0.000E+00	
SOURCE #		0.000E+00 0.000E+00	2.940E-06 4.599E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.940E-06 4.599E-06	0.000E+00 0.000E+00	
SOURCE #	31	0.000E+00	3.444E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.444E-06	0.000E+00	
SOURCE #		0.000E+00 0.000E+00	2.017E-06 1.862E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	2.017E-06 1.862E-07	0.000E+00 0.000E+00	
SOURCE #		0.000E+00	1.934E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.934E-07	0.000E+00	
SOURCE #	35	0.000E+00	3.048E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.048E-07 1.490E-05	0.000E+00 0.000E+00	
SOURCE #	36 37	0.000E+00 0.000E+00	1.490E-05 8.646E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	8.646Z-06	0.000E+00	
SOURCE #	38	0.000E+00	8.264E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.264E-07	0.000E+00	
SOURCE #		0.000E+00	8.623E-07 1.366E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	8.623E-07 1.366E-06	0.000E+00 0.000E+00	
SOURCE #	41	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #		0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #		0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	45	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE 1		0.000E+00	0.000E+00	0.0C0E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
	SUM	- 0.900E+00	2.648E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.648E-04	0.000E+00	

POLLUTANT Hg ACCEPTABLE EXPOSURE LEVEL (ug/m3) = 3.000E-01 BACKS. (ug/m3) = 0.000E+00 ORAL DOSE (mg/kg-d) = 3.000E-04

CV CNS IN-MUN KIDN LIVER REPRO RESP SKIN

Source 🖸	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	3	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SCURCE #	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		
SOURCE #	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	7	0.0002+00	0.000E+00	0.000E+00	0.000E+00			0.000E+00	0.000E+00
SOURCE #	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	ğ	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.0002+00	0.000E+00	0.000E+00
SOURCE #	10	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	ii	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	12	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	13	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE	วัร	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	17		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00 <b>02+</b> 00	0.000E+00	0.000E+00
SOURCE #	18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	21	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	22	0.000E+00	0.000E+00	0.00CE+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	23	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	24	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	25	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	26	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	27	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Source #	28	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Source #	30	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SCURCE #	31	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Source 🛊	32	0.000E+00	0.000E+00	0.000E+00	0.00CE+00	0.000E+00	0.000Z+00	0.000E+00	0.000E+00
SOURCE #	33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Source #	35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SCURCE #	37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SCURCE #	38	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	39	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	40	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	41	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	42	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00			0.000E+00
SOURCE #	43	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	44	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	45	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00
SOURCE #	46	0.000E+00	0.000E+00			0.000E+00	0.000E+00	0.000E+00	0.000E+00
	-	~~~~~~~	*.VVVETUU	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	SUM =	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4 000E+44	0 000F±00	A AAAA.	
		4.400E/00	0.000ETUU	U. UUUETUU	U.UUULTUU	0.000E+00	0.000E+00	0.000E+00	0.000E+00

POLLUTANT Ni	ACCEPTABLE	EXPOSURE	LEVEL	(us/m3)	= 2.400E-01	BACKG.	(ug/m3) =	0.000E+00	ORAL DOSE	(mg/cg-d) =	0.0005+00
***							, -0,,			(mo) =0 ~) -	0.0000

			CNS	IMMIN	KIDN	LIVER	REPRO	RESP	SKIN
	_				all put	Lot VEC	REPRO	RESE	2613
SOURCE #	1	0.000E+00	0.000E+00	7.118E-08	7.118E-08	0.000E+00	0.000E+00	7.118E-08	0.000E+00
SOURCE #	2 3	0.000E+00	0.000E+00	4.737E-08	4.737E-08	0.000E+00	0.900E+00	4.737E-08	0.000E+00
SOURCE #	3	0.000E+00	0.000E+00	5.692E-08	5.692E-08	0.000E+00	0.000E+00	5.692E-08	0.000E+00
SOURCE #	5	0.000E+00 0.000E+00	0.000E+00	8.192E-08	8.192E-08	0.000E+00	0.000E+00	8.192E-08	0.000E+00
SOURCE #	6	0.000E+00	0.000E+00	1.153E-08	1.153E-08	0.000E+00	0.000E+00	1.153E-08	0.000E+00
SOURCE #	7	0.000E+00	0.000E+00	2.011E-08	2.011E-08	0.000E+00	0.000E+00	2.011E-08	0.000E+00
SOURCE #	á	0.000E+00	0.000E+00 0.000E+00	1.311E-08	1.311E-08	0.000E+00	0.000E+00	1.311E-08	0.000E+00
SOURCE	9	0.000E+00	0.000E+00	1.967E-08	1.967E-08	0.000E+00	0.000E+00	1.967E-08	0.000E+00
SOURCE #	10	0.000E+00	0.000E+00	1.898E-08	1.898E-08	0.000E+00	0.000E+00	1.898E-08	0.000E+00
SOURCE #	ii	0.000E+00	0.000E+00	2.109E-08	2.109E-08	0.000E+00	0.000E+00	2.109E-08	0.000E+00
SOURCE #	12	0.000E+00	0.000E+00	6.298E-09	6.298E-09	0.000E+00	0.000E+00	6.298E-09	0.000E+00
SOURCE #	13	0.000E+00	0.000E+00	6.614E-09	6.614E-09	0.000E+00	0.000E+00	6.614E-09	0.000E+00
SOURCE #	14	0.000E+00	0.000E+00	9.848E-07	9.848E-07	0.000E+00	0.000E+00	9.848E-07	0.000E+00
SOURCE #	15	0.000E+00	0.000E+00	6.578E-07	6.578E-07	0.000E+00	0.000E+00	6.578E-07	0.000E+00
SOURCE #	16	0.000E+00	0.000E+00	8.156E-07 1.157E-06	8.156E-07	0.000E+00	0.000E+00	8.156E-07	0.000E+00
SOURCE #	17	0.000E+00	0.000E+00	1.638E-07	1.157E-06	0.000E+00	0.000E+00	1.157E-06	0.000E+00
SOURCE #	18	0.000E+00	0.000E+00		1.638E-07	0.000E+00	0.000E+00	1.638E-07	0.000E+00
SOURCE #	19	0.000E+00	0.000E+00	2.801E-07	2.801E-07	0.000E+00	0.000E+00	2.801E-07	0.000E+00
SOURCE	20	0.000E+00	0.000E+00	5.374E-07 3.644E-07	5.374E-07	0.000E+00	0.000E+00	5.374E-07	0.000E+00
SOURCE #	21	0.000E+00	0.000E+00	3.602E-07	3.6442-07	0.000E+00	0.000E+00	3.644E-07	0.000E+00
SOURCE #	22	0.000E+00	0.000E+00	5.600E-07	3.602E-07	0.000E+00	0.000E+00	3.602E-07	0.000E+00
SOURCE #	23	0.000E+00	0.000E+00	8.486E-08	5.600E-07	0.000E+00	0.000E+00	5.600E-07	0.000E+00
SOURCE #	24	0.000E+00	0.000E+00	1.566E-07	8.486E-08 1.566E-07	0.000E+00	0.000E+00	8.486E-08	0.000E+00
SOURCE #	25	0.000E+00	0.000E+00	1.683E-07	1.683E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.566E-07	0.000E+00
SOURCE #	25	0.000E+00	0.000E+00	2.640E-06	2.640E-06	0.000E+00	0.000E+00	1.683E-07	0.000E+00
SCURCE #	27	0.000E+00	0.000E+00	1.571E-06	1.571E-06	0.000E+00	0.000E+00	2.640E-06	0.000E+00
SOURCE #	28	0.000E+00	0.000E+00	1.379E-07	1.379E-07	0.000E+00	0.000E+00	1.571E-06 1.379E-07	0.000E+00
SOURCE #	29	0.000E+00	0.000E+00	1.424E-07	1.424E-07	0.000E+00	0.000E+00	1.424E-07	0.000E+00 0.000E+00
SOURCE #	30	0.000E+00	0.000E+00	2.227E-07	2.227E-07	0.000E+00	0.000E+00	2.227E-07	0.000E+00
SOURCE #	31	0.000E+00	0.000E+00	1.668E-07	1.668E-07	0.000E+00	0.000E+00	1.668E-07	0.000E+00
SOURCE #	32	0.000E+00	0.000E+00	9.769E-08	9.769E-08	0.000E+00	0.000E+00	9.769E-08	0.000E+00
SOURCE #	33	0.000E+00	0.000E+00	9.020E-09	9.020E-09	0.000E+00	0.000E+00	9.020E-09	0.000E+00
SOURCE #	34	0.000E+00	0.000E+00	9.370E-09	9.370E-09	0.000E+00	0.000E+00	9.370E-09	0.000E+00
SOURCE #	35	0.000E+00	0.000E+00	1.476E-08	1.476E-08	0.000E+00	0.000E+00	1.476E-08	0.000E+00
SOURCE #	36	0.000E+00	0.000E+00	7.218E-07	7.218E-07	0.000E+00	0.000E+00	7.2182-07	0.000E+00
SOURCE #	37	0.000E+00	0.000E+00	4.186Z-07	4.186E-07	0.000E+00	0.000E+00	4.186E-07	0.000E+00
SOURCE #	38	0.000E+00	0.000E+00	4.001E-08	4.001E-08	0.000E+00	0.000E+00	4.001E-08	0.000E+00
SOURCE #	39	0.000E+00	0.000E+00	4.175E-08	4.175E-08	0.000E+00	0.000E+00	4.175E-08	0.000E+00
SOURCE #	40	0.000E+00	0.000E+00	6.615E-08	6.615E-08	0.000E+00	0.000E+00	6.615E-08	0.000E+00
SCURCE #	41	0.000E+00							
SCURCE #	42	0.000E+00							
							U. UUDTUU	V. VUUETUU	U.UUUETUU

SOURCE #	43 44	0.000E+00 0.000E+00	0.000E+00							
SOURCE #	45 46	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00							
	SUM =	0.0002+00	0.000E+00	1.297E-05	1.297E-05	0.0002+00	0.000E+00	1.297E-05	0.000E+00	
POLLUT	ETGAN THA	ACCEPTABLE	EXPOSURE LE	VEL (ug/m3)	- 1.400E+01	BACKG. (ug/t	m3) = 0.000E+	00 ORAL DOSE	(mg/kg-d)	- 4.000E-03
	_	C₹	CNS	INTUN	KIDN	LIVER	REPRO	RESP	SKIN	
Source #	1 2	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
Source #	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SCURCE #	_	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	7 8	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	
SOURCE #	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	
SOURCE #	10 11	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	13 14	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	15	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	16 17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	18	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	19 20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	20 21 22	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	22	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	23 24	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	
SOURCE #	25	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	•
SOURCE #	26 27	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	•
SOURCE #	28	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	
SOURCE #	29 30	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	31	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	32 33	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	35 36	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	37	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	38 39	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	40	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
Source #	41 42	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	43	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	44 45	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	46	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
	SUM -	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
POLLU	IANT Se	ACCEPTABL	E EXPOSURE L	EVEL (ug/m3)	= 5.000E-01	BACKG. (ug/	m3) = 0.000E	+00 ORAL DOS	E (mg/kg-d)	= 0.000E+00
		C7	CNS	II-LUN	KIDN	LIVER	REFRO	RESP	SIKIN	
SOURCE #	1	0.000E+00	0.000E+00	0.00GE+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	2 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	4	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	Ş	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	6 7	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	
SOURCE #	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	
Source #	9 10	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	11 12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	12 13	0.000E+00 0.000E+00	0.000E+00							
SOURCE #	14	0.000E+00	0.000E+00 0.000E+00							
SOURCE #	15 16	0.000E+00 0.000E+00	0.000E+00							
SOURCE #	17	0.000E+00	0.000E+00 0.000E+00							
Source #	18 19	0.000E+00 0.000E+00	0.000E+00							
SOURCE #	20	0.000E+00	0.000E+00 0.000E+00							
SOURCE #	21 22	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	23	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
SOURCE #	24	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SOURCE #	25 26	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	
Source #	27 28	0.000E+00 0.000E+00	0.000E+00							
SOURCE #	29	0.000E+00	0.000E+00 0.000E+00							
			23							

SOURCE # 30 SOURCE # 31 SOURCE # 32 SOURCE # 33 SOURCE # 35 SOURCE # 36 SOURCE # 36 SOURCE # 37 SOURCE # 39 SOURCE # 39 SOURCE # 40 SOURCE # 41 SOURCE # 42 SOURCE # 43 SOURCE # 44 SOURCE # 44 SOURCE # 45 SOURCE # 45 SOURCE # 46	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	
POLLUTANT TOL	ACCEPTABLE	EXPOSURE L	VEL (ug/m3)	- 2.000E+02	BACKG. (ug/i	m3) = 0.000E-	+00 ORAL DOSE	E (mg/kg-d)	= 0.000E+00
SOURCE # 1	C7 0.000E+00	CRS	IMMIN 0.000E+60	KIDN 0.000E+00	LIVER 0.000E+00	REPRO	RESP	SKIN 0 000E+00	

		C7	CINS	IMMIN	KIDN	LIVER	REPRO	RESP	SKIN
SOURCE #	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.007+00	4 4445.44	
SOURCE #	ž	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
SOURCE #	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00			0.000E+00	0.000E+00
SOURCE #	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	Ś	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00
SOURCE #	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00
SCURCE #	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.0002+00	0.000E+00	0.000E+00
SOURCE #	ğ	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00
SOURCE #	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
SOURCE #	13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00
SOURCE #	14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
SOURCE #	15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00
SOURCE #	16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
SCURCE #	17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	19	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	21	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00
SOURCE #	22	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	23	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00
SOURCE #	24	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	25	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	26	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	27	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	G.000E+00	0.000E+00
SOURCE #	28	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
SOURCE #	30	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00
SCURCE #	31	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
SOURCE #	32	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00
SOURCE #	33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00		0.000E+00	0.000E+00
SOURCE #	34	0.000Z+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
SOURCE #	35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	G.000E+00
SOURCE #	38	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	39	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	40	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SOURCE #	41	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
SOURCE #	42	0.000E+00	0.000E+00	0.000E+00	0.00GE+00	0.000E+00	0.000E+00		
SOURCE #	43	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00
SOURCE #	44	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00
SOURCE #	45	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00
SOURCE #	46	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
	-						~	V.UULTUU	U.UUUZTVO
	Sum =	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
								J. 4005.00	0.000ET00

POLLUTANT XYLEN ACCEPTABLE EXPOSURE LEVEL (ug/m3) = 3.000E+02 BACKG. (ug/m3) = 0.000E+00 CRAL DOSE (mg/kg-d) = 0.000E+00

CV CNS IMMUN KIDN LIVER REPRO RESP SKIN

SOURCE #	1234567890112345	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
	15 16	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	

```
SOURCE #
             17
18
19
                                                         0.000E+00
0.000E+00
                                                                                        0.000E+00
0.000E+00
                          0.000E+00
                                          0.000E+00
                                                                         0.000E+00
                                                                                                       0.0007+00
                                                                                                                      0.000E+00
                                                                                                                                      0.000E+00
                                                                                                       0.000E+00
0.000E+00
                                                                                                                      0.000E+00
0.000E+00
                                                                         0.000E+00
                          0.000E+00
                                          0.000E+00
                                          0.000E+00
                                                                                                                                       0.000E+00
SOURCE 4
                            000E+00
                                                         0.000E+00
                                                                         0.000E+00
                                                                                        0 000E+00
SOURCE
                          0.000E+00
                                                         0.000E+00
                                                                                        0.000E+00
                                                                                                       0.000E+00
                                                                                                                       0.000E+00
                                                                                                                                       0.0002+00
             21
22
23
24
25
                                                                                                       0.000E+00
                                                                                                                       0.000E+00
                                                                                                                                       0.000E+00
SOURCE #
                          0 000E+00
                                          0 000E+00
                                                         0 000E+00
                                                                         0.000E+00
                                                                                        0.000E+00
SOURCE #
                          0.000E+00
                                          0.000E+00
                                                                           000E+00
                                                                                        0.000E+00
                                                                                                       0 .000E+00
                                                                                                                       0.000E+00
0.000E+00
                                                                                                                                       0.000E+00
                                                                                                        0.000Z+00
                                                                                                                                       0.000E+00
                                                                         0 000E+00
                                                         0 000E+00
SCURCE #
                          0.000E+00
                                          0.000E+00
                                                         0.000E+00
                                                                         0.000E+00
                                                                                        0.000E+00
                                                                                                       0.0005+00
                                                                                                                       0.0005+00
                                                                                                                                       O OCCE+CO
                                                                                                                                       0.000E+00
SOURCE #
                                                                                        0.000E+00
                                                                         0.000E+00
                                                                                                        0.000E+00
                                                                                                                       0.000E+00
                          0.000E+00
                                                         0 .000E+00
                                          0 000E+00
SOURCE #
             26
27
                                                                                        0.000E+00
0.000E+00
                          0.000E+00
                                          0.000E+00
                                                         0 000E+00
                                                                         0.000E+00
                                                                                                        0.0002+00
                                                                                                                       0 000E+00
                                                                                                                                       0.000E+00
                                                                                                        0.000E+00
                                                                                                                       0.000E+00
                          0.000E+00
                                          0.000E+00
                                                         0.000E+00
                                                                         0.000E+00
                                                                                                                                       0.000E+00
                                                                                                                                       0.000E+00
SOURCE #
             28
                          0 0005+00
                                          0.0002+00
                                                         0.0002+00
                                                                         0.000E+00
                                                                                        0.0002+00
SOURCE #
SOURCE #
SOURCE #
SOURCE #
                                                                                                                       0.000E+00
                                                                                                        0.000E+00
              29
                          0.000E+00
                                          0.000E+00
                                                         0.000E+00
                                                                         0.000E+00
                                                                                        0.000E+00
                                                                                                                                       0.000E+00
                                                                                        0 000E+00
                                                                                                                                       0.000E+00
             30
                          0 000E+00
                                          0 000E+00
                                                         0.000E+00
                                                                         0.000E+00
                                          0.000E+00
                                                                                                        0.000E+00
0.000E+00
                                                                                                                       0 000E+00
                                                                                                                                       0 000E+00
                                                                                                                       0.000E+00
                                                                                                                                       0.000E+00
              32
                          0.000E+00
                                          0 000E+00
                                                         0.000E+00
                                                                         0.000E+00
                                                                                         0 000E+00
GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET
                                                                                                        * OUTFUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 * II 11/14/96 07:00:20 Fags * 177
Input File: g:\beest\GQ\gqpmace.dat
                                                           Output File: g:\beest\GQ\GQpmACE.OUT
                                                                                         0.000E+00
                                                                                                        0.000E+00
                                                                                                                       0.000E+00
                                                          0.000E+00
                                                                         0.000E+00
                                                                                                                                       0.000E+00
SOURCE 4
                           0.000E+00
                                          0.000E+00
                                                                                        0.000E+00
0.000E+00
SOURCE #
              34
                           0.000E+00
                                          0.000E+00
                                                          0.000E+00
                                                                         0.000E+00
                                                                                                        0.000E+00
0.000E+00
                                                                                                                       0.000E+00
                                                                                                                                       0.000E+00
                                                                                                                       0.000E+00
SCURCE 4
              36
                           0.0002+00
                                          0 000E+00
                                                          0 000E+00
                                                                         0 000E+00
                                                                                                        0.000E+00
                                                                                                                       0.000E+00
                                                                                                                                       0.000E+00
SOURCE #
SOURCE #
SOURCE #
                           0.000E+00
                                          0.000E+00
                                                          0.000E+00
                                                                          0.000E+00
                                                                                         0.000E+00
                                                                                                        0.000E+00
                                                                                                                       0.000E+00
0.000E+00
                                                                                                                                       0.000E+00
              38
                           0.00000
                                           0 000E+00
                                                          0 000E+00
                                                                         0.000E+00
              39
                           0.000E+00
0.000E+00
                                          0.000E+00
                                                                         0.000E+00
0.000E+00
                                                                                         0.000E+00
0.000E+00
                                                            .000E+00
                                                                                                        0 0002+00
                                                                                                                       0 000E+00
                                                                                                                                       0.000E+00
                                                                                                        0.000E+00
                                                                                                                       0.000E+00
                                                                                                                                       0.000E+00
                                                          0.000E+00
              41
42
43
SOURCE #
                           0.000E+00
0.000E+00
                                          0.000E+00
0.000E+00
                                                          0.000E+00
0.000E+00
                                                                          0.000E+00
                                                                                         0 000E+00
                                                                                                        0 0002+00
                                                                                                                        0 0005+00
                                                                                                                                       0 0002+00
                                                                                                                                       0.000E+00
                                                                                                        0.000E+00
                                                                                                                        0.000E+00
                                                                          0.000E+00
                                                                                         0.000E+00
SOURCE #
                                                                                                                       0 .000E+00
                           0.000E+00
                                           0.000E+00
                                                          0.000E+00
                                                                          0.0000
                                                                                         0 000E+00
                                                                                                        0.0002+00
                                                                                                                                       0.000E+00
                                           0.000E+00
                                                          0.000E+00
                                                                                                        0.000E+00
                                                                                                                        0.000E+00
                                                                                                                                       0.000E+00
                           0.000E+00
                                                                          0.000E+00
                                                                                         0.000E+00
SOURCE #
               45
                           0.0002+00
                                           0.00000
                                                          0.0000+00
                                                                          0 000E+00
                                                                                         0 000E+00
                                                                                                                        0.000E+00
                                                                                                                                       0.000E+00
                                                                                         0.000E+00
                                                                                                                        0.000E+00
                                                                                                                                       0.000E+00
                           0.000E+00
                                           0.000E+00
                                                          0.000E+00
                                                                          0.000E+00
                                                                          0.000E+00
                                                                                         0.000E+00
                                                                                                        0.0002+00
                                                                                                                        0.0002+00
                                                                                                                                       0.0002+00
                 SUM =
                           0.000E+00
                                           0.000E+00
                                                          0.000E+00
                            ACCEPTABLE EXPOSURE LEVEL (ug/m3) = 3.500E+01 BACKG. (ug/m3) = 0.000E+00 GRAL DOSE (mg/kg-d) = 0.000E+00
      POLLUTANT Zn
                                                                                                             REPRO
                                                                                                                              RESP
                                                                                                                                              SKIN
                                    ~
                                                   CNS
                                                               THATIN
                                                                                YTON
                                                                                              LIVER
SOURCE #
SOURCE #
SOURCE #
SOURCE #
                                                                                         0.000E+00
                                                                                                         0.000E+00
                                                                                                                        2.062E-09
                                                                                                                                        0.000E+00
                           2.062E-09
                                           0.0002+00
                                                          g.000E+00
                                                                          0.000E+00
                           1.372E-09
1.649E-09
2.373E-09
                                                                                                                        1.372E-09
1.649E-09
2.373E-09
                                           0.000E+00
                                                          0.000E+00
                                                                          0.000E+00
0.000E+00
                                                                                         0.000E+00
                                                                                                        0.000E+00
0.000E+00
                                                                                                                                        0.000E+00
                2345
                                           0.000E+00
0.000E+00
                                                                                                                                        0 .000E+00
                                                           0.000E+00
                                                                          0 000F+00
                                                                                         0.000E+00
                                                                                                         0 000E+00
                                                           0.000E+00
                                                                          0.000E+00
                            3.342E-10
                                                                                          0.000E+00
                                                                                                         0.000E+00
                                                                                                                        3.34ZE-10
                                                                                                                                          000E+00
 SOURCE #
SOURCE #
SOURCE #
SOURCE #
SOURCE #
SOURCE #
                           5.826E-10
3.796E-10
5.695E-10
                                                                                                         0.000E+00
                                                                                                                        5.826E-10
                                                                                                                                        0.000E+00
                                           0.000E+00
                                                           0.000E+00
                                                                          0.000E+00
                                                                                         0.000E+00
                                                                                                                        3.796E-10
5.695E-10
5.493E-10
6.102E-10
                                                                                                         0.000E+00
0.000E+00
                                                                                                                                        0.000E+00
                                                           0.000E+00
                                                                          0.000E+00
                                                                                          0.000E+00
                8
                                           0 000E+00
                                                                          0 000E+00
                                                           0 000F+00
                                                                                          0 000E+00
                                                           0.000E+00
0.000E+00
                                                                                         0.000E+00
                            5.493E-10
                                           0.000E+00
                                                                          0.000E+00
                                                                                                         0.000E+00
                                                                                                                                        0 000E+00
                           6.102E-10
1.822E-10
1.914E-10
2.853E-08
                                                                                                         0.000E+00
                                                                                                                                        0.000E+00
               10
                                           0.000E+00
                                                                          0.000E+00
               1112
                                                           0.000E+00
0.000E+00
                                                                          0.000E+00
0.000E+00
                                                                                                                           822E-10
                                           0.000E+00
                                                                                          0 000E+00
                                                                                                         0.000E+00
                                                                                                                                        0 0005+00
                                                                                                                        1.914E-10
2.853E-08
 SOURCE #
                                           0.000E+00
                                                                                          0.000E+00
                                                                                                         0.000E+00
 SOURCE #
                                           0.000E+00
0.000E+00
               13
14
15
16
17
18
19
20
                                                           0.000E+00
                                                                          0.000E+00
                                                                                          0.000E+00
                                                                                                         0 000E+00
                                                                                                                                        0.000E+00
                            1.906E-08
2.362E-08
3.353E-08
                                                                                                                        1.906E-08
2.362E-08
                                                                                                                                        0.000E+00
                                                           0.000E+00
                                                                          0.000E+00
                                                                                          0.000E+00
                                                                                                         0.000E+00
 SOURCE #
                                           0.000E+00
                                                           0.000E+00
                                                                          0 000E+00
                                                                                          0.000E+00
                                                                                                         0.000E+00
                                                                                                                        2.362E-08
3.353E-08
4.747E-09
8.116E-09
1.770E-08
1.200E-08
1.186E-08
                                           0.000E+00
                                                           0.000E+00
                                                                          0.000E+00
                                                                                                           000E+00
                                                                                                                                        0.000E+00
 SOURCE #
SOURCE #
SOURCE #
                                                                                                                                        0.000E+00
                                                                                                         0.000E+00
                                                                          0 000E+00
                                                                                          0 000E+00
                            4 747F-09
                                           0.0005+00
                                                           0 000E+00
                            8.116E-09
1.770E-08
                                                                                          0.000E+00
                                                                                                         0.000E+00
0.000E+00
                                           0.000E+00
                                                           0.000E+00
                                                                                                                                        0.000E+00
                                                                                                                                        0.000E+00
                            1.770E-08
1.200E-08
1.186E-08
                                                           0.000E+00
                                                                          0.000E+00
                                                           0.000E+00
                                                                          0.000E+00
0.000E+00
                                                                                          0.000E+00
                                            0.000E+00
                                                                                                         0.000E+00
                                                                                                                                        0 0005+00
                                                                                                         0.000E+00
  SOURCE #
               21
                                            0.000E+00
                                                                                                                         1.844E-08
2.795E-09
5.157E-09
  SOURCE #
               22
23
                            1.844E-08
2.795E-09
                                            0.000E+00
                                                           0.000E+00
                                                                                          0.000E+00
                                                                           0.000E+00
                                                                                                         0 000E+00
                                                                                                                                        0.000E+00
                                                                           0.000E+00
                                                                                                         0.000E+00
               24
25
26
27
28
  SOURCE #
                            5.157E-09
2.545E-09
                                            0.000E+00
                                                           0.000E+00
0.000E+00
                                                                           0.000E+00
                                                                                          0.000E+00
                                                                                                         0.000E+00
                                                                                                                                        0.000E+00
                                                                           0.000E+00
                                                                                                         0.000E+00
                                                                                                                           545E-09
                                                                                                                                        0.000E+00
 SOURCE #
SOURCE #
SOURCE #
SOURCE #
SOURCE #
SOURCE #
SOURCE #
SOURCE #
SOURCE #
SOURCE #
                            8.692E-08
5.172E-08
4.541E-09
                                                                                                                         8.692E-08
5.172E-08
4.541E-09
                                                                                                                                        0.000E+00
                                            0.000E+00
                                                                                                         0.000E+00
                                                           0.000E+00
                                                                           0.000E+00
                                                                                          0.0005+00
                                                                                          0.000E+00
                                                                                                         0.000E+00
0.000E+00
                                                           0.000E+00
                                                                                                                                        O COOF+CO
                                                                                                                                        0.000E+00
                                            0 000E±00
                                                           0 000E+00
                                                                           0.000E+00
                                                                                                                         4.689E-09
                                                           0.000E+00
                                                                                                                                        0 000E+00
                             4.689E-09
                                            0.000E+00
                                                                           0.000E+00
                                                                                          0.000E+00
                                                                                                          0.000E+00
                                                                                          0.000E+00
                                                                                                          0.000E+00
                                                                                                                         7.331E-09
                             7.331E-09
                                                                           0.000E+00
                30
                                            0.000E+00
                             5.492E-09
3.216E-09
                                            0.000E+00
                                                           0.000E+00
                                                                           0.000E+00
0.000E+00
                                                                                          0.000E+00
                                                                                                          0.000E+00
                                                                                                                         5 A92E-09
                                                                                                                                        0.000E+00
                                                                                                                         3.216E-09
2.970E-10
                                                                                                          0.000E+00
                                                                                                                                         0.000E+00
                32
                                                                                                                                        0.000E+00
                33
                             2.970E-10
3.085E-10
                                              .000E+00
                                                           0.000E+00
0.000E+00
                                                                           0 000E+00
                                                                                          0 000E+00
                                                                                                          0.000E+00
                                            0.000E+00
                                                                           0.000E+00
                                                                                           0.000E+00
                                                                                                          0.000E+00
0.000E+00
                                                                                                                         3.085E-10
4.861E-10
                                                                                                                                        0.000E+00
  SOURCZ #
                35
                             4.861E-10
2.377E-08
                                              000E+00
                                                            0 000E+00
                                                                           0.0000
                                                                                           0 000E+00
  SOURCE #
                                                                                                          0.000E+00
0.000E+00
                                                                                                                         2.377E-08
1.378E-08
                                                                                                                                         0.000E+00
0.000E+00
                                            0.000E+00
                                                            0.000E+00
                                                                           0.000E+00
                                                                                           0.000E+00
                36
37
                                                                                           0.000E+00
                             1.378E-08
                                            0 000E+00
                                                            0 000E+00
                                                                           0 000E+00
                             1.318E-09
                                                            0.000E+00
                                                                           0.000E+00
                                                                                           0.000E+00
                                                                                                          0.000E+00
                                                                                                                         1.318E-09
1.375E-09
                                                                                                                                         0.0005+00
  SOURCE #
                                            0.000E+00
                                                                                                          0.000E+00
                                                                                                                                         0.000E+00
  SOURCE #
                                                                                           0.000E+00
                39
                             1 375E-09
                                            0 000E+00
                                                            0.000E+00
                                                                           0.000E+00
                                                                                                          0.000E+00
0.000E+00
                             2.178E-09
                                                            0.000E+00
                                                                            0.000E+00
                                                                                           0.000E+00
                                                                                                                           178E-09
                                                                                                                                         0.0002+00
                40
                                            0.000E+00
                                                                                                                          0.000E+00
                                                                                                                                         0.000E+00
                41
                                                            0 000E+00
                                                                           0 000E+00
                                                                                           0 000E+00
  SOURCE #
                                            0 000E+00
  SOURCE #
SOURCE #
SOURCE #
                                                              000E+00
                                                                           0.000E+00
                                                                                           0.000E+00
                                                                                                          0.000E+00
0.000E+00
                                                                                                                          0.005+00
                                                                                                                                         0.000E+00
                             0.000E+00
                                             0.000E+00
                                                                                                                          0.000E+00
                                                            0 .000E+00
                43
                             0.000E+00
                                             0.000E+00
                             0.000E+00
0.000E+00
                                                            0.000E+00
                                                                            0.000E+00
                                                                                           0.000E+00
                                                                                                          0.000E+00
                                                                                                                          0.000E+00
                                                                                                                                         0.000E+00
                                                                                           0.000E+00
                                                                                                          0.000E+00
                                                                                                                          0.000E+00
                                                                                                                                         0.000E+00
                                                                            0.000E+00
                45
                                             0.000E+00
                                                            0.000E+00
                                                                            0.000E+00
                                                                                           0.005+00
                                                                                                          0.000E+00
                                                                                                                          0.000E+00
                                                                                                                                         0.000E+00
   SOURCE
                             0.000E+00
                                                                                                                         4.064E-07
                                                                                                                                         0.000E+00
```

0.000E+00

0.000E+00

SUM =

4.064E-07

0.000E+00

0.000E+00

0.000E+00

### SUMMARY OF MAXIMUM PREDICTED RISKS

# CANCER RISK ASSESSMENT

SIGNIFICANT RISK LEVEL = 1.000E-06
IMPACT ZONE RISK LEVEL = 1.000E-07
MAXIMUM FEAK RISK = 2.418E-06
FREDICTED AT RECEPTOR # 69
TOTAL EXCESS BURDEN = 0.000E+00

59 RECEPTORS WITH RISK EXCEEDING SIGNIFICANT RISK LEVEL OF 1.000E-06

42	43	44	45	48	49	50	62	63	64
65	66	67	68	69	70	71	72	91	92
93	103	104	105	106	107	115	116	117	118
119	120	127	128	129	130	131	132	133	139
140	141	142	143	144	145	146	151	152	153
178	188	189	190	191	198	199	200	201	

# ACUTE EXPOSURE TO NON-CANCER POLLUTANTS

SIGNIFICANT BAZARD INDEX = 0.5000
MAXIMUM HAZARD INDEX FOR AN ENDPOINT = 0.0137
PREDICTED AT RECEPTOR # 34

O RECEPTORS WITH HAZARD INDEX .GE. 0.5000 FOR ONE OR MORE TOXICOLOGICAL ENDPOINTS

## CHRONIC EXPOSURE TO NON-CANCER POLLUTANTS

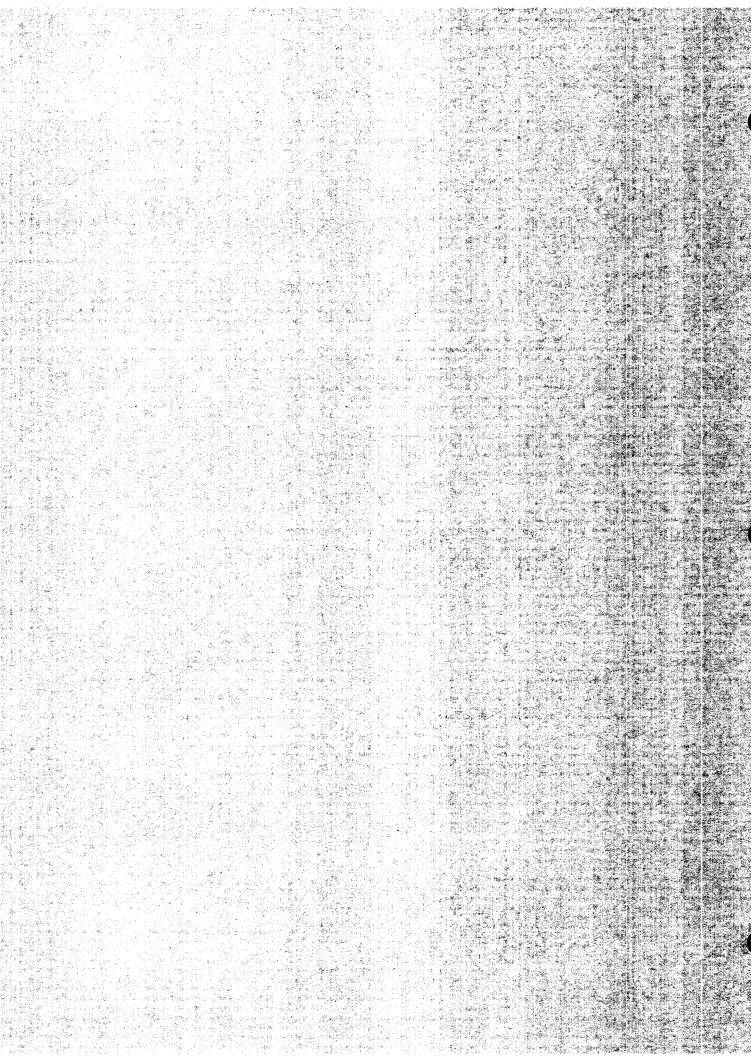
SIGNIFICANT HAZARD INDEX = 0.5000
MAXIMUM HAZARD INDEX FOR AN ENDPOINT = 0.0478
FREDICTED AT RECEPTOR # 87

O RECEPTORS WITH BAZARD INDEX .GE. 0.5000 FOR ONE OR MORE TOXICOLOGICAL ENDPOINTS

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET, PM10 \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\GQpmace.dat Output File: g:\beest\GQ\GQpmacE.OUT 11/14/96 07:00:20 Fage - 181

\*\*\* END OF ACE2588 SIMULATION \*\*\*

APPENDIX J



A C E 2 5 8 8 --- ASSESSMENT OF CHEMICAL EXPOSURE FOR AE 2588 --- VERSION 93288 ----

A MULTI-SOURCE, MULTI-POLLUTANT, MULTI-PATHWAY RISK ASSESSMENT MODEL
DEVELOPED BY APPLIED MODELING INC. AND SANTA BARBARA COUNTY APCD

Distributed and Maintained by CAPCOA

#### \*\*\* INPUT MODELING PARAMETERS \*\*\*

IDODIS = 1 --> ISCST DISPERSION MODELING WITE SEQUENTIAL METEOROLOGY ANNUAL CONCENTRATIONS COMPUTED AS AVERAGES OF 1-BOUR CONC.

IDORISK = 0 -> FULL MODEL RUN FOR RISK ASSESSMENT FROM ALL SOURCES AT ALL RECEPTORS

IDOACU - 1 -> HONCANCER ACUTE EXPOSURE PERFORMED

IDOPRI - 0 -> DIAGNOSTIC FRINT OUTPUT NOT CREATED

IDENTIFICATION NUMBERS OF MODELED POLLUTANTS:

1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET. TSP \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\gqtspace.dat Output File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 3

### POLLUTANT-SPECIFIC DATA

NAME	SYMBOL	NUM	UNIT RISK (ug/m3)-1	POTENCY (mg/kg-d)		CHRONIC AE	L ORAL DOSE (mg/kg-d)						END: RP			CV	ACU		TOX	EN LI		INI:	
Acetaldehyde	ACETA		2.70E-06		-				_	_		_	_	_	_	_	-		_		•••		
Acrolein	ACROL			0.00E+00	0.00E+00	9.00E+00	0.00E+00	0	0.	Q	ū	Q	Q	1	Q	a	q	g	0	3	G	0	0
Arsenic		- 3	0.00E+00	0.00E+00		2.00E-02	0.00E+00	0	a	0	q	0	0	1	Ç	C	0	3	0	0	C	1	0
Benzene	A3	10	3.30E-03	1.70E+00		5.00E-01	1.00E-03	Ţ	Ţ	a	0	O	G	1	1	Q	0	0	a	0	0	0	0
	BENZE	13	2.90E-05	0.00E+00		7.10E+01	0.00E+00	Q.	1	0	0	Q	0	0	0	0	C	0	0	0	Q	0	0
Beryllium	Be	17	2.40E-03	4.30E+00		4.80E-03	5.00E-03	0	0	0	G	0	0	1	0	0	0	0	3	3	0	0	0
Cadmium	Čq	22	4.20E-03	0.00E+00		3.50E+00	1.00E-03	0	0	0	1	0	Q	1	0	0	Q	0	0	٥	0	0	à
Chromium (hex.)	Çr	36	1.40E-01	4.20E-01		2.00E-03	5.00 <b>E-</b> 03	0	0	G	1	1	G	1	0	0	0	G	0	a	0	ā	ã
Copper	Cu	38	0.00E+00	0.00E+00	1.00E+01	2.4QE+00	0.00E+00	0	0	0	0	0	0	1	0	0	0	ā	0	à	à	i	Ğ
Formaldehyde	ECHO	70	6.00E-06	0.00E+00	3.70E+02	3.60E+00	0.00E+00	0	0	a	0	G	٥	1	Ó	a	O.	ā	ō	ā	ā	-	ă
Hydrogen cyanide	BCX	79	0.00E+00	0.00E+00	3.30E+03	7.00E+01	0.00E+00	0	1	ā	ā	ā	ō	ō	ō	ŏ	1	ā	ñ	ñ	ñ	ñ	ŏ
Lead	Pb	83	8.00E-05	0.00E+00	0.00E+00	1.50E+00	4.30E-04	1	ī	1	1	Ď	1	ā	ă	ă	ō	ō	ŏ	ň	ň	ň	ň
Manganese	Man	85	0.00E+00	0.00E+00		4.00E-01	0.00E+00	ā	ī	õ	ō	ñ	ñ	•	ň	ă	ñ	ă	ŏ	ň	ň	ň	č
Mercury	Hg	87	0.00E+00	0.00E+00		3.00E-01	3.00E-04	7	ī	ň	ĭ	- <del>,</del> .	ň	•	ň	ň	7	ň	•		ž	,	2
Nickel	Nĭ	111	2.60E-04			2.40E-01	0.00E+00	ā	ñ	7	ī	ň	ă	Ť	ŏ	ŏ	ā	7	à	ò	7		2
Naphthalene	NAPTH	110	0.00E+00	0.00E+00		1.40E+01	4.00E-03	7	č	ñ	ñ	ň	×	ā	ň	ă	×	Ť	×	×	~		
Polycyclic arom. H		130	1.70E-03	1.15E+01		0.00E+00	0.00E+00	<b>^</b>	×	ž	×	ž	×	ž	×	×	ž	•		ŭ	ň	v	ŭ
Propylene	PROPL	134	0.00E+00			0.00E+00		ž	ŭ	ž	9	v		ž	v	9		٠	ŭ	ų.	ų	ŭ	ŭ
Selenium	Se	137	1.40E-04				0.00E+00	ŭ	Ü	ų	9	Ų	ų	Ų	9	9	ŭ	ų	Ų	ŭ	ū	0	ā
Toluene	TOL.	145				5.00E-01	0.00E+00	Ų	Ü	ū	Ü	ū	0	Ī	Q	ū	ū	ū	0	ā	0	Ī	0
Xylene	XXIEN		0.00E+00	0.00E+00		2.00E+02	0.00E+00	ū	1	Q	0	0	1	0	0	0	Q	0	0	0	0	0	a
		151	0.00E+00	0.00E+00		3.00E+02	0.00E+00	0	Q	0	0	G	1	1,	0	0	0	٥	0	0	0	1	0
Zinc	Zn	152				3.50E+01	0.00E+00	1	0	0	3	0	0	1	0	0	0	G	0	0	0	0	G
NonToxic PM10	NIXPM	998	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	G	0	0	0	0	0	0	0	0	0	0	a	0	0	0	0

TOTAL NUMBER OF MODELED POLLUTANTS = 22

NUMBER OF CARCINOGENIC POLLUTANTS = 11

1 10 13 17 22 36 70 83 111 130

NUMBER OF MULTIPATEWAY POLLUTANTS - 8

10 17 22 36 83 87 110 130

NUMBER OF POLLUTANTS WITH ACUTE NON-CANCER RISK =

3 38 70 79 87 111 137 151

MAXIMUM NUMBER OF ACUTE TOXICOLOGICAL ENDPOINTS = 3

HUMBER OF POLLUTANTS WITH CHRONIC HON-CANCER RISK = 19

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, TSP \* CUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 4

1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 137 145 151 152

MAXIMUM NUMBER OF CHRONIC TOXICOLOGICAL ENDPOINTS = 5

REQUIRED TOTAL ARRAY SIZE = 947848 WORDS

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET. TSP • OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 • Input File: g:\beest\GQ\gqtspace.dat Output File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 5

#### \*\*\* INPUT SOURCE EMISSION RATES \*\*\*\*

FOR SOURCE # 1 OPERATING HOURS =	DRILLING PITI 8760 00 SURF	ACE AREA (m2) =	1.000E+05	DEPOSITION ADJUST.	FACTOR = 2.50000
011101110 10010					
POLLUTANT NAME PO	TITTANT NITHING	1-HOUR	DATE	ANNUAL	RATE
PULLUIANI NAME PU	LLUIANI NUMBER	(g/s)	(lb/hr)		(lb/yr)
		· <del>-</del> ·			0.000E+00
ACETA	1 3	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACROL As	10	5.401E-07	4.287E-06	0.000E+00 4.096E-07 0.000E+00 5.608E-08 1.472E-08	2.848E-02
BENZE	13	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Be	10 13 17	3.258E-07	2.586E-06	5.608E-08	3.899E-03
Cd	22	1.948E-08	4.287E-06 0.000E+00 2.586E-06 1.546E-07 2.514E-08 3.595E-07 0.000E+00	1.4/2E-08 2.662F-09	1.023E-03 1.851E-04
Cr Cu	36 38	3.168E-09 4.530E-08	3 595E-07	2.662E-09 3.447E-08 0.000E+00	2 396E-03
ECEO	70	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ECN	79		4.0002.00	0.000E+00	0.000E+00
Fb	83	1.884E-07	1.495E-06	0.000E+00 0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00	6.058E-03 2.898E-02
Mn Hg	85 87	4.961E-07 0.000E+00	3.937E-06 0.000E+00 1.307E-07	0 000E+00	0.000E+00
Ni Ni	111	1.647E-08	1.307E-07	1.246E-08	8.563E-04
NAPTH	110	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PAH	130	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
PROPL Se	134 137	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
TOL	145	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XYLEN	151	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Zn .	152	6.922E-08	0.000E+00 5.494E-07 5.029E-02	5.264E-08 5.325E-03	3.660E-03 3.702E+02
NIXPM	998	6.336E-03	5.029E-02	5.3258-03	3.7022702
FOR SOURCE # 2	DRILLING PIT2				FACTOR = 2.50000
OPERATING HOURS =	8760.00 SURF	ACE AREA (m2) =	1.000E+05	DEPOSITION ADJUST.	FACTOR = 2.50000
POLLUTANT NAME PO	LLUTANT NUMBER	1-HOUR	RATE	ANNUAL (g/s)	RATE
		(g/s)	(lb/hr)	(g/s)	(lb/yr)
ACETA	1	0.000E+00	0.0002+00	0.000E+00	0.000E+00
ACROL	3	0.000E+00	0.000E+00		0.000E+00
As	10	5.401E-07 0.000E+00	4.287E-06	4.096E-07	2.848E-02
BENZE	12	0.000E+00	0.000E+00		0.000E+00 3.899E-03
Be	17	3.258E-07	2.5865-06	3.5055-06	
Cq	22		1 5462-07	1 472F-08	1.023E-03
	22 36	1.948E-08	1.546E-07 2.514E-08	1.472E-08 2.662E-09	1.023E-03
Cr Cu	22 36 38	1.948E-08 3.168E-09 4.530E-08	1.546E-07 2.514E-08 3.595E-07	1.472E-08 2.662E-09 3.447E-08	1.023E-03 1.851E-04 2.396E-03
Cr Cu HCHO	22 36 38 70	1.948E-08 3.168E-09 4.530E-08 0.000E+00	0.000E+00 2.586E-06 1.546E-07 2.514E-08 3.595E-07 0.000E+00	1.472E-08 2.662E-09 3.447E-08 0.000E+00	1.023E-03 1.851E-04 2.396E-03 0.000E+00
Cu HCHO HCN	22 36 38 70 79	1.948E-08 3.168E-09 4.530E-08 0.000E+00 0.000E+00	0.000E+00	0.000E+00	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+00
Cu HCHO HCN Pb	17 22 36 38 70 79	1.948E-08 3.168E-09 4.530E-08 0.000E+00 0.000E+00	0.000E+00	0.000E+00	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+00 6.058E-03
Cu HCHO HCN Pb Mn	83 85	1.948E-08 3.168E-09 4.530E-08 0.000E+00 0.000E+00 1.884E-07 4.961E-07	0.000E+00	0.000E+00	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+00
Cu HCHO HCN Pb Mn Hg	83 85 87	1.948E-08 3.168E-09 4.530E-08 0.000E+00 0.000E+00	0.000E+00 0.000E+00 1.495E-06 3.937E-06 0.000E+00	0.00E+00 8.714E-08 4.169E-07 0.000E+00	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+00 6.058E-03 2.898E-02 0.000E+00 8.663E-04
Cu HCHO HCN Pb Mn	83 85 87 111 110	1.948E-08 3.168E-09 4.530E-08 0.000E+00 0.000E+00 1.884E-07 4.961E-07 0.000E+00 1.647E-08 0.000E+00	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+00 6.058E-03 2.898E-02 0.000E+00 8.663E-04 0.000E+00
Cu HCHO HCN Pb Mm Hg N1 NAPTH FAH	83 85 87 111 110	1.948E-08 3.168E-09 4.530E-08 0.000E+00 1.884E-07 4.961E-07 0.000E+00 1.647E-08 0.000E+00	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+00 6.058E-03 2.898E-02 0.000E+00 8.663E-04 0.000E+00 0.000E+00
Cu HCEO HCN Pb Mm Hg Ni NAPTH PAH PROFL	83 85 87 111 110	1.948E-08 3.168E-09 4.530E-08 0.000E+00 0.000E+00 1.884E-07 4.961E-07 0.000E+00 0.000E+00 0.000E+00	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00 0.000E+00	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+00 6.058E-03 2.898E-02 0.000E+00 8.663E-04 0.000E+00
Cu HCEO HCN Pb Mm Hg Ni NAPTH PAH PROPL Se	83 85 87 111 110	1.948E-08 3.168E-09 4.530E-08 0.000E+00 0.000E+00 1.884E-07 4.961E-07 0.000E+00 1.647E-08 0.000E+00 0.000E+00 0.000E+00	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+00 6.058E-03 2.898E-02 0.000E+00 8.663E-04 0.000E+00 0.000E+00 0.000E+00
Cu HCEO HCN Pb Mm Hg Ni NAPTH PAH PROFL	85 85 87 111 110 130 134 137	1.948E-08 3.168E-09 4.530E-08 0.000E+00 0.000E+07 4.961E-07 0.000E+08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+03 2.898E-03 2.898E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
Cu HCEO HCN Pb Mn Hg Ni NAPTH PAH FROFL Se TOL XYLEN Zn	85 85 87 111 110 130 134 137 145 151	1.948E-08 3.168E-09 4.530E-08 0.000E+00 1.884E-07 4.961E-07 0.000E+00 1.647E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+03 2.898E-03 2.898E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
Cu HCHO HCN Pb Mm Hg Ni NAPTH PAH FROPL Se TOL XYLEN	85 85 87 111 110 130 134 137	1.948E-08 3.168E-09 4.530E-08 0.000E+00 0.000E+07 4.961E-07 0.000E+08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+00 6.058E-03 2.898E-02 0.000E+00 8.663E-04 0.000E+00 0.000E+00 0.000E+00
Cu HCHO HCHO Pb Mm Hg N1 NAPTH FAH FROPL Se TOL XYLEN Zu NTXPM	85 85 87 111 110 130 134 137 145 151 152 998	1.948E-08 3.168E-09 4.530E-08 0.000E+00 1.884E-07 4.961E-07 0.000E+00 1.647E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 6.922E-08 6.336Z-03	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.264E-08 5.325E-03	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+00 0.000E+00 8.663E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.660E-03 3.702E+02
Cu HCHO HCHO Pb Mm Hg N1 NAPTH FAH FROPL Se TOL XYLEN Zu NTXPM	85 85 87 111 110 130 134 137 145 151 152 998	1.948E-08 3.168E-09 4.530E-08 0.000E+00 1.884E-07 4.961E-07 0.000E+00 1.647E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 6.922E-08 6.336Z-03	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.264E-08 5.325E-03	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+00 0.000E+00 8.663E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.660E-03 3.702E+02
Cu HCHO HCHO Pb Mm Hg N1 NAPTH FAH FROPL Se TOL XYLEN Zu NTXPM	85 85 87 111 110 130 134 137 145 151 152 998	1.948E-08 3.168E-09 4.530E-08 0.000E+00 1.884E-07 4.961E-07 0.000E+00 1.647E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 6.922E-08 6.336Z-03	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.264E-08 5.325E-03	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+03 2.898E-03 2.898E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
Cu HCHO HCHO Pb Mm Hg N1 NAPTH FAH FROPL Se TOL XYLEN Zu NTXPM	85 85 87 111 110 130 134 137 145 151 152 998	1.948E-08 3.168E-09 4.530E-08 0.000E+00 1.884E-07 4.961E-07 0.000E+00 1.647E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.494E-07 5.029E-02	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.264E-08 5.325E-03	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+00 6.058E-03 2.898E-02 0.000E+00 8.663E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.660E-03 3.702E+02
Cu HCHO HCHO Pb Mm Hg N1 NAPTH FAH FROPL Se TOL XYLEN Zu NTXPM	85 85 87 111 110 130 134 137 145 151 152 998 DRILLING PIT3 8760.00 SURF	1.948E-08 3.168E-09 4.530E-08 0.000E+00 1.884E-07 4.961E-07 4.961E-07 0.000E+00 1.647E-08 0.000E+00	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.850E+05	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.264E-08 5.325E-03	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+00 6.058E-03 2.898E-02 2.898E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.660E-03 3.702E+02
Cu HCEO HCN Fb Mn Hg Ni Hg NAPTH FAH FROFL Se TOL XYLEN Zn NTXPM  FOR SOURCE # 3 OPERATING HOURS =	85 85 87 111 110 130 134 137 145 151 152 998 DRILLING PIT3 8760.00 SURF	1.948E-08 3.168E-09 4.530E-08 0.000E+00 0.000E+00 1.884E-07 4.961E-07 4.961E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 6.922E-08 6.336E-03  ACE AREA (m2) =	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.494E-07 5.029E-02	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.264E-08 5.325E-03  DEPOSITION ADJUST	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+00 6.058E-03 2.898E-02 0.000E+00 8.663E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.660E-03 3.702E+02
Cu HCEO HCN Fb Mn Hg Ni Hg Ni NAPTH PAH FROPL Se TOL XYLEN Zn NTXPM  FOR SOURCE   3 OFERATING HOURS =	85 85 87 111 110 130 134 137 145 151 152 998 DRILLING PIT3 8760.00 SURF	1.948E-08 3.168E-09 4.530E-08 0.000E+00 0.000E+00 1.884E-07 4.961E-07 4.961E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 6.922E-08 6.336E-03  ACE AREA (m2) =	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.494E-07 5.029E-02	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.264E-08 5.325E-03  DEPOSITION ADJUST  ANNUAL (8/5)	1.023E-03 1.851E-04 2.396E-03 0.000E+00 6.058E-03 2.898E-02 0.000E+00 8.663E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.660E-03 3.702E+02   RATE (lb/yr)
Cu HCEO HCHO HCHO HCHO HCH HCHO HCH HCH HCH HC	85 85 87 111 110 130 134 137 145 151 152 998 DRILLING PIT3 8760.00 SURF	1.948E-08 3.168E-09 4.530E-08 0.000E+00 0.000E+00 1.884E-07 4.961E-07 4.961E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 6.922E-08 6.336E-03  ACE AREA (m2) =	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.494E-07 5.029E-02	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.264E-08 5.325E-03  DEPOSITION ADJUST  ANNUAL (8/5)	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+00 6.058E-03 2.898E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.660E-03 3.702E+02  FACTOR = 2.50000  RATE (lb/yr) 0.000E+00 0.000E+00
Cu HCEO HCN Fb Mn Hg Ni Hg Ni NAPTH PAH FROPL Se TOL XYLEN Zn NTXPM  FOR SOURCE   3 OFERATING HOURS =	85 85 87 111 110 130 134 137 145 151 152 998 DRILLING PIT3 8760.00 SURF	1.948E-08 3.168E-09 4.530E-08 0.000E+00 1.884E-07 4.961E-07 0.000E+00 1.647E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 ACE AREA (m2) =  1-HOUR (8/s) 0.000E+00 0.000E+00	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.494E-07 5.029E-02	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.264E-08 5.325E-03  DEPOSITION ADJUST  ANNUAL (8/5)	1.023E-03 1.851E-04 2.396E-03 0.000E+00 6.058E-03 2.898E-02 0.000E+00 8.663E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.660E-03 3.702E+02   RATE (lb/yr) 0.000E+00 0.000E+00 0.000E+00 0.100E+00 0.100E+00 0.100E+00 0.100E+00 0.100E+00 0.100E+00
Cu HCEO HCEO HCEO HCEO HCEO HCEO HCEO HCEO	85 85 87 111 110 130 134 137 145 151 152 998 DRILLING PIT3 8760.00 SURF	1.948E-08 3.168E-09 4.530E-08 0.000E+00 0.000E+00 1.884E-07 4.961E-07 4.961E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 6.922E-08 6.336E-03  ACE AREA (m2) =  1-HOUR (8/s) 0.000E+00 0.000E+00 0.000E+00	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.494E-07 5.029E-02	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.264E-08 5.325E-03  DEPOSITION ADJUST  ANNUAL (8/5)	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+00 6.058E-03 2.898E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.660E-03 3.702E+02   RATE (lb/yr) 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.1096E-01 0.000E+00
Cu HCEO HCN Fb Mn Hg Ni Hg NAPTH FAH FROFL Se TOL XYLEN Zn NTXPM  FOR SOURCE # 3 OPERATING HOURS =  POLLUTANT NAME PO  ACETA ACROL AS BENZE Be	85 85 87 111 110 130 134 137 145 151 152 998 DRILLING PIT3 8760.00 SURF	1.948E-08 3.168E-09 4.530E-08 0.000E+00 1.884E-07 4.961E-07 0.000E+00 1.647E-08 0.000E+00	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.494E-07 5.029E-02	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.264E-08 5.325E-03  DEPOSITION ADJUST  ANNUAL (8/5)	1.023E-03 1.851E-04 2.396E-03 0.000E+00 6.058E-03 2.898E-02 0.000E+00 8.663E-04 0.000E+00 0.160E-03
Cu HCEO HCEO HCEO HCEO HCEO HCEO HCEO HCEO	85 85 87 111 110 130 134 137 145 151 152 998 DRILLING PIT3 8760.00 SURF	1.948E-08 3.168E-09 4.530E-08 0.000E+00 0.000E+00 1.884E-07 4.961E-07 0.000E+00	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.494E-07 5.029E-02	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.264E-08 5.325E-03  DEPOSITION ADJUST  ANNUAL (8/5)	1.023E-03 1.851E-04 2.396E-03 0.000E+00 0.000E+00 6.058E-03 2.898E-02 2.898E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.660E-03 3.702E+02   RATE ((1b/yr)  0.000E+00 0.000E+00 1.096E-01 0.000E+00 1.501E-02 3.941E-03
Cu HCEO HCN Fb Mn Hg Ni Hg NAPTH FAH FROFL Se TOL XYLEN Zn NTXPM  FOR SOURCE # 3 OPERATING HOURS =  POLLUTANT NAME PO  ACETA ACROL AS BENZE Be	85 85 87 111 110 130 134 137 145 151 152 998 DRILLING PIT3 8760.00 SURF	1.948E-08 3.168E-09 4.530E-08 0.000E+00 1.884E-07 4.961E-07 0.000E+00 1.647E-08 0.000E+00	0.000E+00 1.495E-06 3.937E-06 0.000E+00 1.307E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.494E-07 5.029E-02	0.000E+00 8.714E-08 4.169E-07 0.000E+00 1.246E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.264E-08 5.325E-03  DEPOSITION ADJUST  ANNUAL (8/5)	1.023E-03 1.851E-04 2.396E-03 0.000E+00 6.058E-03 2.898E-02 0.000E+00 8.663E-04 0.000E+00 0.160E-03

		0.000E+00 0.000E+00 7.253E-07 1.910E-06 0.000E+00 6.342E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.665E-07 2.439E-02	0.000E+00 0.000E+00 5.756E-06 1.516E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.100E+00 0.100E+00 0.100E+00	0.000E+00 0.000E+00 3.355E-07 1.605E-06 0.000E+00 4.797E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.027E-07 2.050E-02	0.000E+00 0.000E+00 2.333E-02 1.116E-01 0.00E+00 3.335E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.409E-02 1.425E+03
FOR SOURCE # 4 OPERATING HOURS =	8760.00 SURI	FACE AREA (m2) =	4.725E+05	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUTANT NAME PO		1-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 2.552E-06 0.000E+00 1.539E-06 9.205E-08 1.49FE-08 2.140E-07 0.000E+00	0.000E+00 0.000E+00 2.025E-05 0.000E+00 1.221E-05 7.306E-07 1.188E-07 1.698E-06 0.000E+00 0.000E+00 1.860E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.595E-06 2.376E-01	0.000E+00 0.000E+00 1.935E-06 0.000E+00 2.650E-07 6.956E-08 1.258E-08 1.629E-07 0.000E+00 4.118E-07 1.970E-06 0.000E+00 5.887E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 1.345E-01 0.000E+00 1.842E-02 4.836E-03 8.746E-04 1.133E-02 0.000E+00 0.000E+00 0.000E+00 4.093E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.729E-02 1.749E+03
FOR SOURCE # 5 OPERATING HOURS =	DRILLING_PIT5 8760.00 SURI	FACE AREA (m2) =	1.520E+05	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUTANT NAME PO		1-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (1b/yr)
HCN Pb Mn Hg Ni NAPTH PAH PROPL Se TOL XYLEN Zn NTXPM	79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 8.210E-07 0.000E+00 4.952E-07 2.961E-08 4.815E-09 6.886E-08 0.000E+00 0.000E+00 2.863E-07 7.540E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 6.516E-06 0.000E+00 3.930E-06 2.350E-07 3.821E-08 5.465E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 6.226E-07 0.000E+00 8.525E-08 2.238E-08 4.047E-09 5.239E-08 0.000E+00 0.000E+00 1.325E-07 6.337E-07 0.000E+00 1.894E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 4.329E-02 0.000E+00 5.927E-03 1.556E-03 2.814E-04 3.642E-03 0.000E+00 0.000E+00 0.000E+00 1.317E-03 0.000E+00
FÓR SOURCE # 6 OPERATING HOURS =	DRILLING_PIT6 8760.00 SURF	FACE AREA (m2) =	1.520E+05	DEPOSITION ADJUST	FACTOR = 2.50000
POLLUTANT NAME PO	LLUTANT NUMBER	1-EOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCHO HCHO HCHO Mb	1 3 10 13 17 22 36 38 70 79	0.000E+00 0.000E+00 8.210E-07 0.000E+00 4.952E-07 2.961E-08 4.815E-09 6.886E-08 0.000E+00 0.000E+00	0.000E+00 0.000E+00 6.516E-06 0.000E+00 3.930E-06 2.350E-07 3.821E-08 5.465E-07 0.000E+00 0.000E+00	0.000E+00 0.000E+00 6.226E-07 0.000E+00 8.525E-08 2.238E-08 4.047E-09 5.239E-08 0.000E+00 0.000E+00	0.000E+00 0.000E+00 4.329E-02 0.000E+00 5.927E-03 1.556E-03 2.814E-04 3.642E-03 0.000E+00 0.000E+00

Zn NTXPM	110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.052E-07 9.630E-03	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 8.349E-07 7.643E-02	0.000E+00 1.894E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 8.002E-08 8.093E-03	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.563E-03 5.627E+02
FOR SOURCE # OPERATING HOURS	BLASTING PIT1 8760.00 SUR	FACE AREA (m2) =	1.000E+00	DEPOSITION ADJUST	FACTOR = 2.50000
POLLUTANT NAME		1-HOUR (g/s)	(lb/hr)	ANNUAL (g/s)	(lb/yr)
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCN Fb Mn Hg Ni NAPTH PAH PROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 8.630E-04 0.000E+00 1.017E-03 3.017E-05 9.891E-06 7.451E-05 0.000E+00 0.000E+00 5.882E-04 1.549E-03 0.000E+00 5.143E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.134E-04 1.978E+01	0.000E+00 0.000E+00 6.849E-03 0.000E+00 8.071E-03 2.394E-04 7.850E-05 5.913E-04 0.000E+00 4.668E-03 1.229E-02 0.000E+00 4.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 3.348E-06 0.000E+00 4.623E-07 1.203E-07 2.178E-08 2.817E-07 0.000E+00 7.140E-07 3.411E-06 0.000E+00 1.019E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+01 0.328E-01 0.000E+00 3.214E-02 8.364E-03 1.514E-03 1.958E-02 0.000E+00 4.964E-02 2.371E-01 0.000E+00 7.084E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
FOR SOURCE # OPERATING HOURS	8 BLASTING_PIT2 = 8760.00 SUF	RFACE AREA (m2) =	1.000E+00	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUTANT NAME	POLLUTANT NUMBER	1-HOUR	RATE (lb/hr)	ANNUAL (8/s)	RATE (1b/yr)
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCN Pb Mn Hg Ni NAPTH PAH PROPL Se TOL XYLEN Zn NTXPM	83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 8.630E-04 0.000E+00 1.017E-03 3.017E-05 9.891E-06 7.451E-05 0.000E+00 0.000E+00 5.882E-04 1.549E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 6.849E-03 0.000E+00 8.071E-03 2.394E-04 7.850E-05 5.913E-04 0.000E+00 0.000E+00 4.668E-03 1.229E-02 0.000E+00 4.082E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 3.348E-06 0.000E+00 4.623E-07 1.203E-07 2.178E-08 2.817E-07 0.000E+00 0.000E+00 7.140E-07 3.411E-06 0.000E+00 1.019E-07 0.000E+00 0.336E-02	0.000E+00 0.000E+00 2.328E-01 0.000E+00 3.214E-02 8.364E-03 1.514E-03 1.958E-02 0.000E+00 0.000E+00 4.964E-02 2.371E-01 0.000E+00 7.084E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
FOR SOURCE # OPERATING HOURS	9 BLASTING_PIT3 = 8760.00 SU	RFACE AREA (m2) =	1.000E+00	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUTANT NAME	POLLUTANT NUMBER	1-HOUR	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCHO HCHO HCH Mn Hg Ni NAPTH PAH	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110	0.000E+00 0.000E+00 8.630E-04 0.000E+00 1.017E-03 3.017E-05 9.891E-06 7.451E-05 0.000E+00 5.882E-04 1.549E-03 0.000E+00 5.143E-05 0.000E+00	0.000E+00 0.000E+00 6.849E-03 0.000E+00 8.071E-03 2.394E-04 7.850E-05 5.913E-04 0.000E+00 4.668E-03 1.229E-02 0.000E+00 4.082E-04 0.000E+00	0.000E+00 0.000E+00 1.289E-05 0.000E+00 1.780E-06 4.633E-07 8.385E-08 1.085E-06 0.000E+00 0.000E+00 2.749E-06 1.313E-05 0.000E+00 3.925E-07 0.000E+00	0.000E+00 0.000E+00 8.962E-01 0.000E+00 1.238E-01 3.221E-02 5.830E-03 7.543E-02 0.000E+00 0.000E+00 1.911E-01 9.128E-01 0.000E+00 2.729E-02 0.000E+00

PROPL Se TOL XYLEN Zn NTXPM	134 137 145 151 152 998	0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.134E-04 1.978E+01	0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.000E-04 1.570E+02	0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.657E-06 1.677E-01	0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.152E-01 1.166E+04
FOR SOURCE # 10 OPERATING HOURS =	BLASTING_PIT4 8760.00 SUR	FACE AREA (m2) =	1.000E+00	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUTANT NAME PO	LLUTANT NUMBER	1-HOUR	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCN Fb Mn Hg Ni Hg NAPTH PAH FROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 8.630E-04 0.000E+00 1.017E-03 3.017E-05 9.891E-06 7.451E-05 0.000E+00 0.000E+00 5.882E-04 1.549E-03 0.000E+00 5.143E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.134E-04 1.978E+01	0.000E+00 0.000E+00 6.849E-03 0.000E+00 8.071E-03 2.394E-04 7.850E-05 5.913E-04 0.000E+00 0.000E+00 4.668E-03 1.229E-02 0.000E+00 4.082E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.570E+02	0.000E+00 0.000E+00 1.582E-05 0.000E+00 2.184E-06 5.686E-07 1.029E-07 1.331E-06 0.000E+00 0.000E+00 0.000E+00 4.817E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.033E-06 2.058E-01	0.000E+00 0.000E+00 1.100E+00 0.000E+00 1.518E-01 3.953E-02 7.154E-03 9.254E-02 0.000E+00 0.000E+00 2.346E-01 1.120E+00 0.000E+00 3.349E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
FOR SOURCE # 11 OPERATING HOURS =	BLASTING_PIT5 8760.00 SURI	FACE AREA (m2) =	1.000E+00	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUTANT NAME POL	LUTANT NUMBER	1-HOUR	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
Ni NAPTH PAH PROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 87 111 110 130 134 137 1451 152 998	0.000E+00 0.000E+00 8.630E-04 0.000E+00 1.017E-03 3.017E-05 9.891E-06 7.451E-05 0.000E+00 0.000E+00 5.882E-04 1.549E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 6.849E-03 0.000E+00 8.071E-03 2.394E-04 0.000E+00 0.000E+00 4.668E-03 1.229E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 5.089E-06 0.000E+00 7.026E-07 1.829E-07 3.310E-08 4.282E-07 0.000E+00 1.085E-06 5.184E-06 0.000E+00 1.550E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 3.538E-01 0.000E+00 4.885E-02 1.272E-03 2.301E-03 2.977E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
FOR SOURCE # 12 OPERATING HOURS =	BLASTING_PIT6 8760.00 SURI	FACE AREA (m2) =	1.000E+00	DEPOSITION ADJUST	FACTOR = 2.50000
POLLUTANT NAME POI	LLUTANT NUMBER	1-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCN Fb Mn Hg Ni NAPTH FAH PROPL Se TOL XYLEN	1 3 10 13 17 22 36 38 70 79 83 85 111 110 130 134 137 145	0.000E+00 0.000E+00 8.630E-04 0.000E+00 1.017E-03 3.017E-05 9.891E-06 7.451E-05 0.000E+00 0.000E+00 5.882E-04 1.549E-03 0.000E+00 5.143E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 6.849E-03 0.000E+00 8.071E-03 2.394E-04 0.000E+00 0.000E+00 0.000E+00 0.00E+00 0.00E+00 0.00E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 5.089E-06 0.000E+00 7.026E-07 1.829E-07 3.310E-08 4.282E-07 0.000E+00 1.085E-06 5.184E-06 0.000E+00 1.550E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 3.538E-01 0.000E+00 4.885E-02 1.272E-02 2.301E-03 2.977E-02 0.000E+00 0.000E+00 0.000E+00 1.078E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

	Zn NTXPM	152 998	1.134E-04 1.978E+01	9.000E-04 1.570E+02	6.540E-07 6.621E-02	4.547E-02 4.603E+03	
)	FOR SOURCE # 1 OPERATING HOURS	3 TRKLOAD PIT1 = 8760.00	SURFACE AREA (m2) =	1.000E+05	DEPOSITION ADJUST.	FACTOR = 2.	50000
	POLLUTANT NAME	POLLUTANT NUMBER	1-HOUR 1	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)	
	ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCN Pb Mn Hg NAPTH PAH PAH PROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	(g/s)  0.000E+00 0.000E+00 4.530E-06 0.000E+00 5.339E-06 1.583E-07 5.192E-08 3.911E-07 0.000E+00 0.000E+00 0.000E+00 2.700E-07 0.000E+00	0.000E+00 0.000E+00 3.595E-05 0.000E+00 4.237E-05 1.256E-06 4.121E-07 3.104E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 6.078E-06 0.000E+00 8.323E-07 2.185E-07 3.951E-08 5.115E-07 0.000E+00 1.293E-06 6.187E-06 0.000E+00 1.849E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 7.812E-07 7.901E-02	0.000E+00 0.000E+00 4.226E-01 0.000E+00 5.786E-02 1.519E-02 2.747E-03 3.556E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	
			SURFACE AREA (m2) =				50000
	POLLUTANT NAME	POLLUTANT NUMBER	1-HOUR	RATE	ANNUAL	RATE	
	ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCHO HCN Fb Mn NAPTH PAH FROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 81 110 130 134 137 145 151 152 998	(g/s)  0.000E+00 0.000E+00 4.530E-06 0.000E+00 5.339E-06 1.583E-07 5.192E-08 3.911E-07 0.000E+00 0.000E+00 0.00E+00 2.700E-07 0.000E+00	0.000E+00 0.000E+00 3.595E-05 0.000E+00 4.237E-05 1.256E-06 4.121E-07 3.104E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 6.078E-06 0.000E+00 8.323E-07 2.185E-07 3.951E-08 5.115E-07 0.000E+00 1.293E-06 6.187E-06 0.000E+00 1.849E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 4.226E-01 0.000E+00 5.786E-02 1.519E-02 3.556E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	
	FOR SOURCE # OPERATING HOURS	15 TRKLOAD PIT3 = 8760.00	SURFACE AREA (m2) =	3.850E+05	DEPOSITION ADJUST	. FACTOR = 2	.50000
	POLLUTANT NAME	POLLUTANT NUMBER	1-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)	
	ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCN Fb Mn Hg Ni NAPTH PAH PROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 1.189E-05 3.130E-05 0.000E+00 1.039E-06 0.000E+00 0.000E+00	0.000E+00 9.437E-05 2.484E-04 0.000E+00 8.246E-06 0.000E+00 0.000E+00	(8/s)  0.000E+00 0.000E+00 2.340E-05 0.000E+00 3.204E-06 8.411E-07 1.521E-07 1.969E-06 0.000E+00 4.979E-06 2.382E-05 0.000E+00 7.118E-07 0.000E+00	0.000E+00 3.462E-01 1.656E+00 0.000E+00 4.949E-02 0.000E+00 0.000E+00	

FOR SOURCE # 16 TRKLOA OPERATING HOURS = 8760.	D_PIT4 00 SURFACE AREA (m2) =	4.725E+05	DEPOSITION ADJUST. FACTOR = 2.50000
POLLUTANT NAME POLLUTANT	NUMBER 1-HOUR	RATE	ANNUAL RATE
	(g/s)		(g/s) (lb/yr)
ACETA 1 ACROL 3 AS 10 BENZE 13 Be 17 Cd 222 Cr 36 Cu 38 HCHO 70 HCN 79 Fb 83 Mn 85 Hg 87 Ni 111 NAPTH 110 PAH 130 FROPL 134 Se 137 TOL 151	0.000E+00	0.000E+00	0.000E+00 0.000E+00
ACROL 3 As 10	0.000E+00 2.140E-05	0.000E+00 1.698E-04	0.000E+00 0.000E+00 2.872E-05 1.997E+00
BENZE 13	0.000E+00	0.000E+00	0.000E+00 0.000E+00
Be 17 Cd 22	2.523E-05 7.482E-07	2.002E-04 5.938E-06	3.932E-06 2.734E-01 1.032E-06 7.175E-02
Cr 36	2.453E-07	1.947E-06	1.867E-07 1.298E-02
Cu 38 HCHO 70	1.848E-06 0.000E+00	1.467E-05 0.000E+00	2.417E-06 1.680E-01 0.000E+00 0.000E+00
HCN 79 Pb 83	0.000E+00	0.000E+00	0.000E+00 0.000E+00
Mn 85	1.459E-05 3.842E-05	1.158E-04 3.049E-04	6.110E-06
Hg 87 Ni 111	0.000E+00	0.000E+00	0.000E+00 0.000E+00
NAPTH 110	1.276E-06 0.000E+00	1.013E-05 0.000E+00	8.736E-07 6.074E-02 0.000E+00 0.000E+00
PAH 130 PROPL 134	0.000E+00	0.000E+00	0.000E+00 0.000E+00
Se 137	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
TOL 145 XYLEN 151	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
Zn 152	2.813E-06	2.233E-05 3.894E+00	3.691E-06 2.566E-01
NTXFM 998	4.906E-01	3.894E+00	3.733E-01 2.595E+04
FOR SOURCE # 17 TRKLOA OPERATING BOURS = 8760.	D PITS 00 SURFACE AREA (m2) =	1.520E+05	DEPOSITION ADJUST. FACTOR = 2.50000
POLLUTANT NAME POLLUTANT	(g/s)	RATE (lb/hr)	ANNUAL RATE (g/s) (lb/yr)
ACETA 1 ACROL 3 AS 10 BENZE 13 Be 17 Cd 22 Cr 36 Cu 38 HCHO 70 HCN 79 Fb 83 Mn 85 Hg 87 Ni 111 NAPTH 110 PAH 130 PROFL 134 Se 137	0.000E+00 0.000E+00 6.885E-06	0.000E+00 0.000E+00	0.000E+00
As 10	6.885E-06	5.464E-05	0.000E+00
BENZE 13 Be 17	0.000E+00 8.115E-06	0.000E+00 6.440E-05	0.000E+00 0.000E+00 1.265E-06 8.795E-02
Cd 22	2.407E-07	1.910E-06	1.265E-06 8.795E-02 3.321E-07 2.309E-02
Cr 36 Cu 38	7.891E-08 5.945E-07	6.263E-07 4.718E-06	6.005E-08 4.175E-03 7.774E-07 5.405E-02
ECHO 70	0.000E+00	0.000E+00	0.000E+00 0.000E+00
HCN 79 Fb 83	0.000E+00 4.693E-06	0.000E+00 3.725E-05	0.000E+00
Mn 85 Hg 87	1.236E-05	9.810E-05	9.404E-06 6.538E-01
Ni 111	0.000E+00 4.104E-07	0.000E+00 3.257E-06	0.000E+00 0.000E+00 2.810E-07 1.954E-02
NAPTH 110 PAH 130	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
PROPL 134	0.000E+00	0.000E+00	0.000E+00 0.000E+00
TDI. 145	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
XYLEN 151	0.000E+00 0.000E+00 0.000E+00 9.049E-07	0.000E+00	0.000E+00 0.000E+00
Zn 152 NTXPM 998	9.049E-07 1.578E-01	7.182E-06 1.252E+00	1.187E-06 8.252E-02 1.201E-01 8.350E+03
FOR SOURCE # 18 TRKLOAI	D PIT6		
OPERATING HOURS = 8760.		1.520E+05	DEPOSITION ADJUST. FACTOR = 2.50000
POLLUTANT NAME POLLUTANT 1	NUMBER 1-HOUR (g/s)	RATE (lb/hr)	ANNUAL RATE (g/s) (lb/yr)
ACETA 1	0.000E+00	0.000E+00	0.000E+00 0.000E+00
ACROL 3 As 10	0.000E+00 6.885E-06	0.000E+00 5.464E-05	0.000E+00
BENZE 13	0.000E+00	0.000E+00	0.000E+00 0.000E+00
Be 17 Cd 22	8.115E-06 2.407E-07	6.440E-05 1.910E-06	1.265E-06 8.795E-02 3.321E-07 2.309E-02
Cr 36 Cu 38	7.891E-08	6.263E-07	6.005E-08 4.175E-03
ECHO 70	5.945E-07 0.000E+00	4.718E-06 0.000E+00	7.774E-07 5.405E-02 0.000E+00 0.000E+00
HCN 79 Fb 83	0.000E+00 4.693E-06	0.000E+00 3.725E-05	0.000E+00
Mn 85	1.236E-05	9.810E-05	9.404E-06 6.538E-01
Hg 87 Ni 111	0.000E+00 4.104E-07	0.000E+00 3.257E-06	0.000E+00
NAPTH 110	0.000E+00	0.000E+00	0.000E+00 0.000E+00
PROPL 134	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
Se 137 TOL 145	0.000E+00	0.000E+00	0.000E+00 0.000E+00
XYLEN 151	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
Zn 152 NTXPM 998	9.049E-07 1.578E-01	7.182E-06 1.252E+00	1.187E-06 8.252E-02 1.201E-01 8.350E+03
		2.222.00	
FOR SOURCE # 19 HAUL 1 OPERATING HOURS = 8760.0	O SURFACE AREA (m2) =	2.500E+04	DEPOSITION ADJUST. FACTOR = 2.50000

				ANTRITAT	DATE
POLLUTANT NAME	POLLUTANT NUMBER	1-HOUR 1	RATE (lb/hr)	(g/s)	(lb/yr)
ACETA	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACROL	3 10	0.000E+00 5.531E-06	4.390E-05	3.197E-06	2.223E-01
As BENZE	13	0.000E+00	0.000E+00	0.000E+00	0.000E+00 8 148F-04
Be Cd	17 22	2.02/E-08 1.995E-07	1.583E-06	1.153E-07	8.016E-03
Cr	36	3.244E-08	2.575E-07	1.875E-08 2.681E-07	1.304E-03 1.864E-02
Cu HCHO	38 70	4.639E-07 0.000E+00	0.000E+00	0.000E+00	0.000E+00
HCN	79	0.000E+00	0.000E+00	0.000E+00 4 885E-07	0.000E+00 3.396E-02
Pb Min	83 85	5.080E-06	4.032E-05	2.936E-06	2.041E-01
Hg	87	0.000E+00	0.000E+00 1 171E-06	8.532E-08	5.932E-03
Ni NAPTH	110	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PAH PROPL	130	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
Se	137	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
TOL XYLEN	145 151	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
Zn	152	7.088E-07	5.625E-06	4.097E-07	2.848E-02 2.607E+03
NTXPM	998	(8/s)  0.000E+00 0.000E+00 5.531E-06 0.000E+00 2.027E-08 1.995E-07 3.244E-08 4.639E-07 0.000E+00 0.000E+00 1.476E-07 0.000E+00	J.147E-01	3.730£ GE	
FOR SOURCE # OPERATING HOURS	20 HAUL 2 5 = 8760.00	SURFACE AREA (m2) =	2.500E+04	DEPOSITION ADJUST	. FACTOR = 2.50000
		1-HOLE	DATE	ANNUAL.	RATE
POLLUIANI NAME	TOTAL TOTAL	(g/s)  0.000E+00 0.000E+00 5.531E-06 0.000E+00 2.027E-08 1.995E-07 3.244E-08 4.639E-07 0.000E+00 0.000E+00 0.000E+00 1.476E-07 0.000E+00	(lb/hr)	ANNUAL (g/s)	(1b/yr)
ACETA	1	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
ACRUL As	10	5.531E-06	4.390E-05	3.197E-06	2.223E-01
BENZE	13 17	0.000E+00 2.027E-08	1.609E+00	1.172E-08	8.148E-04
Cq	22	1.995E-07	1.583E~06	1.153E-07	8.016E-03 1.304E-03
Cr C:	36 38	3.244E-08 4.639E-07	3.682E-06	2.681E-07	1.864E-02
ECHO	70	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
ECN Ph	79 83	8.450E-07	6.706E-06	4.885E-07	3.396E-02
Mn	85	5.080E-06	4.032E-05	2.936E-06 0.000E+00	0.000E+00
Hg Ni	111	1.476E-07	1.171E-06	8.532E-08	5.932E-03
NAPTH	110	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
PROPL	134	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
Se TOI	137 145	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XYLEN	151	0.000E+00	0.000E+00 5.625E-06	0.000E+00 4.097E-07	2.848E-02
Zn NTXPM	998	6.488E-02	5.149E-01	3.750E-02	2.607E+03
FOR SOURCE #	21 HAUL 3			DEDOCTATON AD TICS	TACTOR = 2 50000
OPERATING HOUR	$S = 876\overline{0}.00$	SURFACE AREA (m2) =	9.625E+04	DEPOSITION ADJUST	. FACTOR - 2.30000
POLLUTANT NAME	POLLUTANT NUMBE	R 1-HOUR	RATE	ANNUAL	
		(g/s)	(lb/hr)		0.000E+00
ACETA ACROL	1 3 10	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00
As	10	2.129E-05	1.690E-04 0.000E+00	1.231E-05 0.000E+00	8.558E-01 0.000E+00
BENZE Be	13 17	0.000E+00 7.806E-08	6.195E-07	4.512E-08	3.137E-03 3.087E-02
Cd	22 36	7.681E-07 1.249E-07	6.096E-06 9.913E-07	4.440E-07 7.219E-08	5.019E-03
Cr Cu	38	1.786E-06	1.417E-05	1.032E-06 0.000E+00	7.175E-02 0.000E+00
echo ecn	70 79	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
Pb	83	3.253E-06	2.582E-05 1.552E-04	1.881E-06 1.131E-05	1.308E-01 7.863E-01
Mn Hg	85 87	1.956E-05 0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ni NAPTH	111 110 130 134 137 145 151	5.682E-07 0.000E+00	4.510E-06 0.000E+00	3.285E-07 0.000E+00	2.284E-02 0.000E+00
PAH	130	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
PROPL Se	134 137	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
TOL	145	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
XYLEN Zn	151 152	2.729E-06	0.000E+00 2.166E-05 1.983E+00	1.577E-06 1.444E-01	1.096E-01 1.004E+04
NTXPM	998	0.000E+00 0.000E+00 0.000E+00 2.729E-06 2.498E-01	1.983£+00	1.4445-01	7.0075.07
FOR SOURCE #	22 HAUL 4				TACTOR - 2 50000
OPERATING HOU	RS = 8760.00	SURFACE AREA (m2) =	1.181E+05	DEPOSITION ADJUS	T. FACTOR = 2.50000
POLLUTANT NAM	E POLLUTANT NUMB	ER 1-HOUR		ANNUA	L RATE (1b/yr)
		(g/s)		0.000E+00	
ACETA	1	0.000E+00	0.0001	0.000	J. J

ACROL AS BENZE Be Cd Cr Cu HCHO HCN Pb Mn Hg Ni NAPTH PAH PROPL Se TOL XYLEN Zn NTXPM	3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 3.993E-06 2.400E-05 0.000E+00 6.974E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00	2.074E-04	0.000E+00 1.511E-05 0.000E+00 5.538E-08 5.449E-07 8.860E-08 1.267E-06 0.000E+00 0.308E-06 1.387E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.387E-05	0.000E+00 1.051E+00 0.000E+00 3.850E-03 3.788E-02 6.160E-03 8.809E-02 0.000E+00 0.000E+00 1.605E-01 9.643E-01 0.000E+00 2.803E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.346E-01 1.232E+04
FOR SOURCE # 23 OPERATING HOURS =	HAUL 5 8760.00	SURFACE AREA (m2) =	3.800E+04	DEPOSITION ADJUST	FACTOR = 2.50000
POLLUTANT NAME PO	LLUTANT NUMBER		RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
PROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 134 137 145 151 152 998	0.000E+00 8.407E-06 0.000E+00 3.082E-08 3.032E-07 4.931E-08 7.051E-07 0.000E+00 0.000E+00 1.284E-06 7.721E-06 0.000E+00 2.243E-07 0.000E+00 0.000E+00	0.000E+00 0.000E+00 6.672E-05 0.000E+00 2.446E-07 2.406E-06 3.913E-07 5.596E-06 0.000E+00 0.00E+00 1.019E-05 6.128E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 4.860E-06 0.000E+00 1.781E-08 1.753E-07 2.850E-08 4.076E-07 0.000E+00 0.000E+00 7.425E-07 4.463E-06 0.000E+00 1.297E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 3.379E-01 0.000E+00 1.238E-03 1.219E-02 1.981E-03 2.834E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.017E-03 0.000E+00
	HAUL 6 8760.00	SURFACE AREA (m2) =	3.800E+04	DEPOSITION ADJUST	FACTOR = 2.50000
POLLUTANT NAME PO	LLUTANT NUMBER	l-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
ACETA ACROL AS BENZE Be Cd Cr	1 3 10 13 17 22	0.000E+00 0.000E+00 8.407E-06 0.000E+00 3.082E-08 3.032E-07	0.000E+00 0.000E+00 6.672E-05 0.000E+00 2.446E-07	0.000E+00 0.000E+00 4.860E-06 0.000E+00 1.781E-08	0.000E+00 0.000E+00 3.379E-01 0.000E+00
Cu HCHO HCN Pb Mn Hg Ni NAPTH PAH PROPL Se TOL XYLEN Zn NTXPM	36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	4.931E-08 7.051E-07 0.000E+00 0.000E+00 1.284E-06 7.721E-06 0.000E+00 2.243E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 9.861E-02	2.406E-06 3.913E-07 5.596E-06 0.000E+00 1.019E-05 6.128E-05 0.000E+00 1.780E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.753E-07 2.850E-08 4.076E-07 0.000E+00 0.000E+00 7.425E-07 4.463E-06 0.000E+00 1.297E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.228E-07 5.700E-02	1.238E-03 1.219E-02 1.981E-03 2.834E-02 0.000E+00 0.000E+00 5.162E-02 3.103E-01 0.000E+00 9.017E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
HCHO HCN Fb Mn Hg Ni NAPTH FAH PROPL Se TOL XYLEN Zn	36 38 70 79 83 85 87 111 110 130 134 137 145 151	4.931E-08 7.051E-07 0.000E+00 0.000E+00 1.284E-06 7.721E-06 0.000E+00 2.243E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	2.406E-06 3.913E-07 5.596E-06 0.000E+00 1.019E-05 6.128E-05 0.000E+00 1.780E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.753E-07 2.850E-08 4.076E-07 0.000E+00 0.000E+00 7.425E-07 4.463E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.219E-02 1.981E-03 2.834E-02 0.000E+00 0.000E+00 5.162E-02 3.103E-01 0.000E+00 9.017E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 4.330E-02 3.963E+03
HCHO HCN Fb Mn Hg Ni NAPTH PAH PROPL Se TOL XYLEN Zn NTXPM  FOR SOURCE # 25	36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998 BAGHOUSE_1 8760.00	4 931E-08 7 051E-07 0 000E+00 0 000E+00 1 284E-06 7 721E-06 0 000E+00 2 243E-07 0 000E+00 0 000E+00 0 000E+00 0 000E+00 1 077E-06 9 861E-02	2.406E-06 3:913E-07 5.596E-06 0.000E+00 0.000E+00 1.019E-05 6.128E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.780E-06 0.000E+00	1.753E-07 2.850E-08 4.076E-07 0.000E+00 0.000E+00 7.425E-07 4.463E-06 0.000E+00 1.297E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.219E-02 1.981E-03 2.834E-02 0.000E+00 0.000E+00 5.162E-02 3.103E-01 0.000E+00 9.017E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 4.330E-02 3.963E+03

NI NAPTH PAH PROPL Se TOL XYLEN Zn NTXPM	22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	2.877E-07 9.433E-08 1.421E-06 0.000E+00 0.000E+00 5.609E-06 1.477E-05 0.000E+00 9.810E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.082E-06 3.773E-01	2.283E-06 7.487E-07 1.128E-05 0.000E+00 0.000E+00 4.452E-05 1.172E-04 0.000E+00 7.786E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	4.379E-07 3.044E-02 1.436E-07 9.984E-03 1.082E-06 7.522E-02 0.000E+00 0.000E+00 0.000E+00 5.936E-01 2.249E-05 1.564E+00 0.000E+00 0.000E+00 7.466E-07 5.191E-02 0.000E+00 1.646E-06 1.144E-01 2.872E-01 1.997E+04
FOR SOURCE # 26 OPERATING HOURS =	TRU-WST 1 8760.00	SURFACE AREA (m2) =	2.156E+05	DEPOSITION ADJUST. FACTOR = 2.50000
POLLUTANT NAME PO	LLUTANT NUMBER	1-HOUR (g/s)	RATE (lb/hr)	ANNUAL RATE (g/s) (lb/yr)
ACETA ACROL AS BENZE Be Cd Cd Cu ECHO HCN Pb Mn Hg Ni NAPTH PAH FROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 8.597E-06 0.000E+00 1.013E-05 3.005E-07 9.854E-08 7.423E-07 0.000E+00 0.000E+00 5.860E-06 1.543E-05 0.000E+00 5.124E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.130E-06	0.000E+00 0.000E+00 6.823E-05 0.000E+00 8.040E-05 2.385E-06 7.821E-07 5.891E-06 0.000E+00 4.651E-05 1.225E-04 0.000E+00 4.067E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 8.968E-06 8.683E-01	0.000E+00
FOR SOURCE # 27 OPERATING HOURS =	TRU-WST 2	SURFACE AREA (m2) =	4.331E+05	DEPOSITION ADJUST. FACTOR = 2.50000
POLLUTANT NAME PO		,	RATE	ANNUAL RATE (g/s) (lb/yr)
POLLUTANT NAME PO		1-HOUR	RATE	ANNUAL RATE
ACETA ACROL AS BENZE Be Cd Cr Cu ECHO HCN Fb Mn Hg Ni NAPTH FAH PROPL Se TOL XYLEN Zn	DLUTANT NUMBER  1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152	1-HOUR (g/s)  0.000E+00 0.000E+00 1.727E-05 0.000E+00 2.035E-05 6.037E-07 1.979E-07 1.491E-06 0.000E+00 0.000E+00 0.1177E-05 3.100E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	RATE (lb/hr) 0.000E+00 0.000E+00 1.371E-04 0.000E+00 1.615E-04 4.791E-06 1.571E-06 1.183E-05 0.000E+00	ANNUAL RATE (g/s) (lb/yr)  0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.054E-05 1.428E+00 0.000E+00 0.000E+00 7.531E-08 5.236E-03 7.410E-07 5.152E-02 1.205E-07 8.378E-03 1.723E-06 1.198E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.887E-05 1.312E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.482E-07 3.811E-02 0.000E+00
ACETA ACROL As BENZE Be Cd Cr Cu HCHO HCN Fb Mn Hg Ni NAPTH FAE PROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998 TRU-WST 3 8760.00	1-HOUR (g/s)  0.000E+00 0.000E+00 1.727E-05 0.000E+00 2.035E-05 6.037E-07 1.979E-07 1.491E-06 0.000E+00	RATE (lb/hr) 0.000E+00 0.000E+00 1.371E-04 0.000E+00 1.615E-04 4.791E-06 1.571E-06 1.183E-05 0.000E+00 1.802E-05 1.744E+00	ANNUAL RATE (g/s) (lb/yr)  0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.054E-05 1.428E+00 0.000E+00 0.000E+00 7.531E-08 5.236E-03 7.410E-07 5.152E-02 1.205E-07 8.378E-03 1.723E-06 1.198E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.139E-06 2.182E-01 1.887E-05 1.312E+00 0.000E+00 0.000E+00 5.482E-07 3.811E-02 0.000E+00 2.633E-06 1.831E-01 2.410E-01 1.676E+04

HCN Pb Mn Hg Ni NAPTH PAH FROPL Se TOL XYLEN Zn NTXPM  FOR SOURCE # 29 OPERATING HOURS =	79 83 85 87 111 110 130 134 137 145 151 152 998  TRU-WST 4 8760.00	0.000E+00 3.726E-06 9.811E-06 0.000E+00 3.258E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 7.184E-07 6.958E-02	0.000E+00 2.957E-05 7.787E-05 0.000E+00 2.586E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.702E-06 5.522E-01		
POLLUTANT NAME PO	LLUTANT NUMBER		RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCN Fb Mn Hg Ni Hg Ni NAPTH PAH FROPL Se TOL XYLEN Zn	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.00E+00 0.000E+00 1.024E-05 0.000E+00 1.207E-05 3.580E-07 1.174E-07 8.842E-07 0.000E+00 6.980E-06 1.838E-05 0.000E+00 6.103E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 8.127E-05 0.000E+00 9.579E-05 2.841E-06 9.317E-07 7.017E-06 0.000E+00 5.540E-05 1.459E-04 0.000E+00 4.844E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.068E-05 1.034E+00	0.000E+00 0.000E+00 1.218E-05 0.000E+00 4.466E-08 4.394E-07 7.145E-08 1.022E-06 0.000E+00 0.000E+00 1.861E-06 1.119E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 8.468E-01 0.000E+00 3.105E-03 3.055E-02 4.967E-03 7.105E-02 0.000E+00 0.000E+00 1.294E-01 7.780E-01 0.000E+00 2.260E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
FOR SOURCE # 30 OPERATING HOURS =	TRU-WST 5 8760.00	SURFACE AREA (m2) =	5.041E+05	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUTANT NAME POI	LLUTANT NUMBER	1-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
POLLUTANT NAME POL ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCHO HCN Pb Mn Hg Ni NAPTH PAH PROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998				
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCHO HCN Pb Mn Hg Ni NAPTH PAH PROPL Se TOL XYLEN Zn	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151	(g/s)  0.000E+00 0.000E+00 2.010E-05 0.000E+00 2.369E-05 7.026E-07 2.304E-07 1.735E-06 0.000E+00 0.000E+00 1.370E-05 3.608E-05 0.000E+00	(lb/hr)  0.000E+00 0.000E+00 1.595E-04 0.000E+00 1.880E-04 5.576E-06 1.829E-06 1.377E-05 0.000E+00	(g/s)  0.000E+00 0.000E+00 2.391E-05 0.000E+00 8.765E-08 8.625E-07 1.402E-07 2.005E-06 0.000E+00 0.000E+00 3.653E-06 2.196E-05 0.000E+00 0.300E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	(lb/yr)  0.000E+00 0.000E+00 1.662E+00 0.000E+00 6.094E-03 5.996E-02 9.747E-03 1.394E-01 0.000E+00 0.000E+00 2.540E-01 1.527E+00 0.000E+00 4.436E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.30E-01 1.950E+04
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCHO HCN Pb Mn Hg Ni NAPTH PAH PROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998 DOZING WASTE 8760.00	(g/s)  0.000E+00 0.000E+00 2.010E-05 0.000E+00 2.369E-05 7.026E-07 2.304E-07 1.735E-06 0.000E+00 0.000E+00 1.370E-05 3.608E-05 0.000E+00	(lb/hr)  0.000E+00 0.000E+00 1.595E-04 0.000E+00 1.880E-04 5.576E-06 1.829E-06 1.377E-05 0.000E+00 0.00E+00	(g/s)  0.000E+00 0.000E+00 2.391E-05 0.000E+00 8.765E-08 8.625E-07 1.402E-07 2.005E-06 0.000E+00 3.653E-06 2.196E-05 0.000E+00 6.381E-07 0.000E+00	(lb/yr)  0.000E+00 0.000E+00 1.662E+00 0.000E+00 6.094E-03 5.996E-02 9.747E-03 1.394E-01 0.000E+00 0.000E+00 0.5540E-01 1.527E+00 0.000E+00 4.436E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.950E+04

				5.129E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.463E-07 2.254E-02	
POLLUTANT NAME POL	LUTANT NUMBER	1-HOUR	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCN Pb Mn Hg Ni NAPTH PAH PROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 3.382E-05 0.000E+00 1.240E-07 1.220E-06 1.983E-07 2.836E-06 0.000E+00 0.000E+00 5.167E-06 3.106E-05 0.000E+00 9.025E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 2.684E-04 0.000E+00 9.841E-07 9.683E-06 1.574E-06 2.251E-05 0.000E+00 4.101E-05 2.465E-04 0.000E+00 7.163E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	(g/s)  0.000E+00 0.000E+00 3.860E-06 0.000E+00 1.415E-08 1.392E-07 2.264E-08 3.238E-07 0.000E+00 0.000E+00 1.3546E-06 0.000E+00 1.030E-07 0.000E+00	0.000E+00 0.000E+00 2.684E-01 0.000E+00 9.838E-04 9.678E-03 1.574E-03 2.251E-02 0.000E+00 4.101E-02 2.465E-01 0.000E+00 7.161E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
FOR SOURCE # 33 OPERATING HOURS =	DOZING WASTE_3 8760.00 SUF	RFACE AREA (m2) =	1.371E+05	DEPOSITION ADJUST	FACTOR = 2.50000
POLLUTANT NAME PO		1-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
NAPTH PAH PROPL SSO TOL XYLEN ZD NTXFM	110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.372E-06 1.256E-01	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.089E-05 9.968E-01	0.000E+00 0.000E+00 1.222E-06 0.000E+00 4.479E-09 4.408E-08 7.167E-09 1.025E-07 0.000E+00 0.000E+00 1.867E-07 1.122E-06 0.000E+00 3.261E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.566E-07 1.433E-02	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.089E-02 9.963E+02
FOR SOURCE # 34 OPERATING HOURS =	DOZING WASTE 4 8760.00 SU	RFACE AREA (m2) =	2.569E+05	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUTANT NAME PO	DLLUTANT NUMBER	1-HOUR	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCHO HCH Pb Mn Hg Ni NAPTH PAH FROPL	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130	0.000E+00 0.000E+00 2.005E-05 0.000E+00 7.351E-08 7.234E-07 1.176E-07 1.682E-06 0.000E+00 3.064E-06 1.842E-05 0.000E+00 5.352E-07 0.000E+00 0.000E+00	0.000E+00 0.000E+00 1.591E-04 0.000E+00 5.834E-07 5.741E-06 9.333E-05 0.000E+00 0.000E+00 0.000E+00 0.432E-05 1.462E-04 0.000E+00 4.248E-06 0.000E+00 0.000E+00	2.289E-06 0.000E+00 8.392E-09 8.258E-08 1.343E-08 1.920E-07 0.000E+00 0.000E+00 3.498E-07 2.103E-06 0.000E+00 6.109E-08	0.000E+00 0.000E+00 1.591E-01 0.000E+00 5.834E-04 5.741E-03 9.337E-04 1.335E-02 0.000E+00 0.000E+00 2.432E-01 0.000E+00 4.247E-03 0.000E+00 0.000E+00

e.	107				
Se TOL	137 145 151 152 998	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 2.934E-07 2.685E-02	0.000E+00 0.000E+00
XYLEN Zn	151 152	0.000E+00 2.570E-06	0.000E+00 2.040E-05	0.000E+00 2.934E-07	0.000E+00 2.040E-02
NTXPM	998	2.352E-01	1.867E+00	2.685E-02	1.867E+03
FOR SOURCE # 35 OPERATING HOURS =	DOZING_WASTE_5 8760.00 SUR	FACE AREA (m2) =	5.041E+05	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUTANT NAME PO		1-HOUR	(31 /3 )	ANNUAL (g/s)	
ACETA ACROL	1 2	0.000E+00	0.000E+00	0.000E+00 0.000E+00 4.493E-06 0.000E+00 1.647E-08 1.621E-07 2.635E-08 3.769E-07 0.000E+00 6.865E-07 4.127E-06 0.000E+00 1.199E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00
As	10	3.936E-05	3.124E-04	4.493E-06	3.124E-01
BENZE Be	13 17	0.000E+00 1.443F-07	0.000E+00	0.000E+00	0.000E+00
Čď	22	1.420E-06	1.127E-05	1.621E-07	1.127E-02
Cr Cu	36 38	2.309E-07 3.301E-06	1.833E-06 2.620E-05	2.635E-08 3.769E-07	1.832E-03 2.620E-02
ECHO ECN	70 79	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pb	83	6.014E-06	4.773E-05	6.865E-07	4.773E-02
Min Hg	85 87	3.615E-05 0.000E+00	2.869E-04	4.127E-06	2.869E-01
Ni NAPTH	111	1.050E-06	8.333E-06	1.199E-07	8.336E-03
PAH	130	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
PROPL Se	134 137	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOL.	145	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XYLEN Zn	151 152	0.000E+00 5.044E-06	0.000E+00 4.003E-05	0.000E+00 5.758E-07	0.000E+00 4.003E-02
NTXPM	998	4.617E-01	3.664E+00	5.271E-02	3.665E+03
FOR SOURCE # 36 OPERATING HOURS =	WIND EROSION1 8760.00 SUR				. FACTOR = 2.50000
POLLUTANT NAME PO		1-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
ACETA	1	0.000E+00	0.000E+00	0.000E+00 0.000E+00 2.906E-06 0.000E+00 1.065E-08 1.048E-07 1.704E-08 2.437E-07 0.000E+00 4.440E-07 2.669E-06 0.000E+00 7.755E-08 0.000E+00 0.000E+00 0.000E+00	0.000E+00
ACROL As	3 10	0.000E+00 2.830E-06	0.000E+00 2.246E-05	0.000E+00 2.906E-06	0.000E+00 2.020E-01
BENZE Be	13 17	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Çã	22	1.03/E-08 1.021E-07	8.103E-07	1.065E-08 1.048E-07	7.286E-03
Cr Cu	36 38	1.660E-08	1.317E-07	1.704E-08	1.185E-03
ECHO	70	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ecn Pd	79 83	0.000E+00 4.324E-07	0.000E+00 3.432E-06	0.000E+00 4.440E-07	0.000E+00 3.087E-02
Mn Eg	85 87	2.599E-06	2.063E-05	2.669E-06	1.856E-01
Ni	111	7.552E-08	5.994E-07	7.755E-08	5.392E-03
NAPTH PAH	110 130	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
PROPL	134	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Se TOL	137	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
XYLEN Zn	151 152	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NTXPM	998	3.627E-07 3.320E-02	2.879E-06 2.635E-01	3.724E-07 3.409E-02	2.589E-02 2.370E+03
FOR SOURCE # 37 OPERATING HOURS =	WIND EROSION2 8760.00 SURI	FACE AREA (m2) =	4.331E+05	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUTANT NAME PO	LLUTANT NUMBER	1-HOUR	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
ACETA	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACROL As	3 10	0.000E+00 5.685E-06	0.000E+00 4.512E-05	0.000E+00 5.837E-06	0.000E+00 4.058E-01
BENZE	13	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Be Cd	17 22	2.084E-08 2.050E-07	1.654E-07 1.627E-06	2.140E-08 2.105E-07	1.488E-03 1.463E-02
Cr Cu	36 38	3.334E-08	2.646E-07	3.423E-08	2.380E-03
HCHO	70	4.768E-07 0.000E+00	3.784E-06 0.000E+00	4.895E-07 0.000E+00	3.403E-02 0.000E+00
HCN Pb	79 83	0.000E+00 8.685E-07	0.000E+00 6.893E-06	0.000E+00 8.918E-07	0.000E+00 6.200E-02
Mn	85	5.221E-06	4.144E-05	5.361E-06	3.727E-01
Hg Ni	87 111	0.000E+00 1.517E-07	0.000E+00 1.204E-06	0.000E+00 1.558E-07	0.000E+00 1.083E+02
NAPTH PAH	110 130	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PROPL	134	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
Se TOL	137 145	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
XYLEN	151	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Zn	152	7.285E-07	5.782E-06	7.480E-07	5.200E-02

FOR SOURCE # 38	WIND EROSION3 8760.00 SUR	FACE AREA (m2) =	1.371E+05	DEPOSITION ADJUST.	FACTOR = 2.50000
POLLUTANT NAME	POLLUTANT NUMBER	1-HOUR 1	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
ACETA ACROL AS BENZE Be Cd C1	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 1.799E-06 0.000E+00 6.596E-09 6.490E-08 1.055E-08	0.000E+00 0.000E+00 1.428E-05 0.000E+00 5.235E-08 5.151E-07 8.373E-08	0.000E+00 0.000E+00 1.848E-06 0.000E+00 6.773E-09 6.664E-08 1.084E-08 1.550E-07	0.000E+00 0.000E+00 1.285E-01 0.000E+00 4.709E-04 4.633E-03 7.536E-04 1.078E-02
Cu HCHO HCN Pb Mn Hg Ni NAPTH	70 79 83 85 87 111	0.000E+00 0.000E+00 2.749E-07 1.653E-06 0.000E+00 4.802E-08 0.000E+00	0.000E+00 0.000E+00 2.182E-06 1.312E-05 0.000E+00 3.811E-07 0.000E+00	0.000E+00 0.000E+00 2.823E-07 1.697E-06 0.000E+00 4.931E-08 0.000E+00 0.000E+00	0.000E+00 0.000E+00 1.963E-02 1.180E-01 0.000E+00 3.428E-03 0.000E+00 0.000E+00
PAH PROPL Se TOL XYLEN Zn NTXPM	134 137 145 151 152 998	0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.306E-07 2.111E-02	0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.830E-06 1.675E-01	0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.368E-07 2.167E-02	0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.646E-02 1.507E+03
FOR SOURCE # 3 OPERATING HOURS	9 WIND EROSION4 = 8760.00 SUR	RFACE AREA (m2) =	2.569E+05	DEPOSITION ADJUST	. FACTOR = 2.50000
POLLUTANT NAME	POLLUTANT NUMBER	1-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
ACETA ACROL AS BENZE Be Cd Cr Cu BCHO HCHO HCN Fb Mn Hg Ni NAPTH FAH FROPL Se TOL XYLEN Zn NTXPM FOR SOURCE #	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 3.371E-06 0.000E+00 1.236E-08 1.216E-07 1.977E-08 2.827E-07 0.000E+00 5.150E-07 3.096E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 2.675E-05 0.000E+00 9.810E-08 9.651E-07 1.569E-07 2.244E-06 0.000E+00 0.000E+00 4.087E-06 2.457E-05 0.000E+00 7.140E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 3.461E-06 0.000E+00 1.269E-08 1.249E-07 2.030E-08 2.903E-07 0.000E+00 5.288E-07 3.179E-06 0.000E+00 9.237E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 2.406E-01 0.000E+00 8.823E-04 8.684E-03 1.411E-03 2.018E-02 0.000E+00 0.000E+00 3.676E-02 2.210E-01 0.000E+00 6.422E-03 0.000E+00 3.084E-02 2.823E+03
OPERATING HOURS	= 8760.00 SU	RFACE AREA (m2) =	5.041E+05		RATE
POLLUTANT NAME	POLLUTANT NUMBER	1-HOUR (g/s) 0.000E+00	(lb/hr) 0.000E+00	(g/s) 0.000E+00	(lb/yr) 0.000E+00
ACETA ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCHO HCHO HCHO HCH Pb Mn Hg Ni NAPTH PAH PROPL Se TOL XYLEN Zn NTXPM	3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 6.616E-06 0.000E+00 2.425E-08 2.387E-07 3.881E-08 5.549E-07 0.000E+00 1.011E-06 6.077E-06 0.000E+00 1.766E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 5.251E-05 0.000E+00 1.925E-07 1.894E-06 3.080E-07 4.404E-06 0.000E+00 8.024E-06 4.823E-05 0.000E+00 1.402E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 6.794E-06 0.000E+00 2.490E-08 2.451E-07 3.985E-08 5.698E-07 0.000E+00 1.033E-06 6.240E-06 0.000E+00 1.813E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 7.969E-02	0.000E+00 4.723E-01 0.000E+00 1.731E-03 1.704E-02 2.771E-03 3.961E-02 0.000E+00 0.000E+00 7.217E-02 4.338E-01 0.000E+00 1.260E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

OPERATING HOURS =	8760.00	SURFACE AREA (m2) =	5.993E+05	DEPOSITION ADJUST. FACTOR = 2.50000
POLLUTANT NAME PO		1-HOUR (g/s)	RATE (lb/hr)	ANNUAL RATE (g/s) (lb/yr)
ACETA ACROL AS	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 145 152 998	0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BENZE Be	17	0.000E+00	0.000E+00	0.000E+00 0.000E+00
Cd Cr	36 36	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.619E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00
Cu ECEO	38 70	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
HCN Pb	79 83	2.040E-01 0.000E+00	0.000E+00	2.040E-01 1.418E+04 0.000E+00 0.000E+00
Mm Hg	85 87	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
Ni NAPTH	111 110	0 0005400	0.000E+00	0.000E+00
PAH PROPL	130 134		0.000E+00 0.000E+00 0.000E+00	0.000E+00
Se TOL	137	0.000E+00	0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00
XYLEN	151	0.000E+00	0.000E+00	0.000E+00
Zn NTXPM	998	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00
FOR SOURCE # 42	ORE PAD2			
	8760.00	SURFACE AREA (m2) =	3.188E+05	DEPOSITION ADJUST. FACTOR = 2.50000
POLLUTANT NAME PO		1-HOUR (g/s)	RATE (lb/hr)	ANNUAL RATE (g/s) (lb/yr)
ACETA	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 152	0.000E+00 0.000E+00		0.000E+00 0.000E+00
ACROL As	3 10	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
BENZE Be	13 17	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
Cd Cr	22 36	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00
Cu	38	0.000E+00	0.000E+00	0.000E+00 0.000E+00
ECHO ECN	70 79	0.000E+00 1.085E-01	0.000E+00 8.611E-01	0.000E+00 0.000E+00 1.085E-01 7.543E+03
Pb Mm	83 85	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
Hg Ni	87 111		0.000E+00 0.000E+00	0.000E+00
NAPTH PAH	110	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00
PROPL Se	134	0.000E+00	0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00
TOL	145	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
<i>0</i> 11	132	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00
NTXPM	998	0.000E+00	0.000E+00	0.000E+00 0.000E+00
FOR SOURCE # 43 OPERATING HOURS =	MERCURY RETO	RT SURFACE AREA (m2) =	1.000E+00	DEPOSITION ADJUST. FACTOR = 1.00000
POLLUTANT NAME PO	LLUTANT NUMBER	1-HOUR (g/s)	RATE (lb/hr)	ANNUAL RATE (g/s) (lb/yr)
ACETA	1	0.000E+00	0.000E+00	0.000E+00 0.000E+00
ACROL As	3 10	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00
BENZE Be	13 17	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00
Cd	22	0.000E+00	0.000E+00	0.000E+00 0.000E+00
Cr Cu	36 38	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00
ECHO ECN	70 7 <del>9</del>	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
Pb Mn	83 85	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00
Hg Ni	87 111	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00
NAPTH	110	0.000E+00	0.000E+00	0.000E+00 0.000E+00
PAH PROPL	130 134	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
Se TOL	137 145	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
XYLEN Zn	151 152	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00
NTXPM	998	0.000E+00	0.000E+00	0.000E+00 0.000E+00
FOR SOURCE # 44 OPERATING HOURS =	ADSORPTION 8760.00	SURFACE AREA (m2) =	1.000E+00	DEPOSITION ADJUST. FACTOR = 1.00000

		(g/s)	(lb/hr)	(g/s)	(lb/yr)
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCN Pb Mn Hg Ni NAPTH PAH FROPL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.284E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
FOR SOURCE # 45 OPERATING HOURS =	FURNACE 8760.00	SURFACE AREA (m2) =	1.000E+00	DEPOSITION ADJUST.	FACTOR - 1.00000
POLLUTANT NAME PO	LLUTANT NUMBER	1-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
ACETA ACROL AS BENZE Be Cd Cr Cu BCHO HCN Pb Mn Hg N1 HS N1 NAPTH FAH FROPL Se TOL XYLEN ZD NTXPM  FOR SOURCE # 46 OPERATING HOURS =	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.467E-05 1.389E-07 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.164E-04 1.102E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.225E-07 4.948E-09 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.633E-02 3.440E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
POLLUTANT NAME PO	OLLUTANT NUMBER	l 1-HOUR (g/s)	RATE (lb/hr)	ANNUAL (g/s)	RATE (lb/yr)
ACETA ACROL AS BENZE Be Cd Cr Cu HCHO HCHO HCHO HCHO HCHO HCS Mh Hg Ni NAPTH PAH PROPIL Se TOL XYLEN Zn NTXPM	1 3 10 13 17 22 36 38 70 79 83 85 87 111 110 130 134 137 145 151 152 998	0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00
POLLUTANT NAME I	COLLUTANT NUMBE	R 1-HOUR	R RATE (lb/hr)	ANNUA (g/s)	L RATE (lb/yr)
ACETA ACROL As	1 3 10	0.000E+00 0.000E+00 5.533E-03	0.000E+00 0.000E+00 4.392E-02	0.000E+00 0.000E+00 2.980E-04	0.000E+00 0.000E+00 2.072E+01

Page 17

BENZE	13	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Be	17	6.262E-03	4.970E-02	3.371E-05	2.344E+00
Cd	22	2.084E-04	1.654E-03	1.124E-05	7.814E-01
Cr	36	6.231E-05	4.945E-04	1.908E-06	1.326E-01
Cu	38	4.779E-04	3.793E-03	2.506E-05	1.742E+00
ECEO	70	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HCN	79	3.136E-01	2.489E+00	3.143E-01	2.185E+04
Pb	83	3.655E-03	2.900E-02	6.020E-05	4.186E+00
Min	85	9.736E-03	7.727E-02	2.980E-04	2.072E+01
Hg	87	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ni	111	3.229E-04	2.563E-03	8.865E-06	6.163E-01
NAPTE	110	0.300E+00	0.000E+00	0.000E+00	0.000E+00
PAH	130	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PROPL	134	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Se	137	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOL	145	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XYLEN	151	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Zn	152	7.264E-04	5.765E-03	3.828E-05	2.661E+00
NTXPM	998	1.239E+02	9.832E+02	3.806E+00	2.646E+05

### \*\*\* INPUT POLLUTANT BACKGROUND CONCENTRATIONS (ug/m3) \*\*\*\*

POLLUTANT NAME	POLLUTANT NUMBER	1-HOUR BACKG.	ANNUAL BACKG
ACETA	1 3	0.000E+00	0.000E+00
ACROL	3	0.000E+00	0.000E+00
As	10	0.000E+00	0.000E+00
BENZE	13	0.000E+00	0.000E+00
Be	17	0.000E+00	0.000E+00
Cd	22	0.000E+00	0.000E+00
Cr	36	0.000E+00	0.000E+00
Cu	38	0.000E+00	0.00 <b>0E+</b> 00
ECEO	70	0.000E+00	0.00 <b>0E+</b> 00
ECN	79	0.000E+00	0.000E+00
Pb	83	0.000E+00	0.000E+00
Mn	85	0.000E+00	0.000E+00
Eg	87	0.000E+00	0.000E+00
Nī	111	0.000E+00	0.000E+00
NAPTH	110	0.000E+00	0.000E+00
PAH	130	0.000E+00	0.000E+00
PROPL	134	0.000 <b>E+0</b> 0	0.000E+00
Se	137	0.000E+00	0.000E+00
TOL	145	0. <b>000E+00</b>	0.000E+00
XYLEN	151	0.0 <b>00E+</b> 00	0.000E+00
Zn	152	0.000E+00	0.000E+00
NIXPM	998	0.000E+00	0.000E+00

LDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, TSP \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* put File: g:\beest\GQ\GQ\tspace.QUT 11/14/96 07:44:58 Fage - 35

### \*\*\* INPUT RECEPTOR DATA \*\*\*

RECEPTOR #	RECEPTOR NAME	X-COORD	Y-COORD	ELEVATION	POPULATION	GARDEN FRAC	SCREEN X/Q
1	RES 24-1	389400.00	3868050.00	2760.00	0	0.00000	0.000E+00
2	RES-20-1	392550.00	3868000.00	2650.00	à	0.00000	0.000E+00
3	RES 20-2	392600.00	3868000.00	2650.00	Ō	0.00000	0.000E+00
4	RES 13-1	390250.00	3868800.00	2760.00	0	0.00000	0.000E+00
5	RES 13-1 RES 13-2 RES 13-3	390300.00	3868750.00	2760.00	0	0.00000	0.000E+00
6	RES 13-3	390300.00	3868500.00	2760.00	ā	0.00000	0.000E+00
7	RES 16-1	393500.00	3868200.00	2610.00	0	0.00000	0.000E+00
8	RES-16-2	393750.00	3868300.00	2600.00	0	0.00000	0.000E+00
9	RES 16-3	393800.00	3868450.00	2590.00	٥	0.00000	0.000E+00
10	RES 12-1	389750.00	3870450.00	2820.00	0	0.00000	0.000E+00
11	RES 9-1	395050.00	3870600.00	2590.00	0	0.00000	0.000E+00
12	RES-5-1	392200.00	3872600.00	2840.00	0	0.00000	0.000E+00
13	RES 31-1	390800.00	3873450.00	2810.00	0	0.00000	0.000E+00
14	RES 31-2	390750.00	3873400.00	2810.00	Ó	0.00000	0.000E+00
15	RES 31-3	390700.00	3873400.00	2820.00	0	0.00000	0.000E+00
16	RES 31-4	390650.00	3873200.00	2820.00	0	0.00000	0.000E+00
17	RES 32-1	393500.00	3873700.00	2710.00	Ō	0.00000	0.000E+00
18	RES 32-2	392450.00	3873750.00	2740.00	ā	0.00000	0.000E+00
19	RES 32-3	391950.00	3873950.00	2760.00	ō	0.00000	0.000E+00
19 20	RES 32-4	391900.00	3873400.00	2780.00	Ġ	0.00000	0.000E+00
21	PROF. 001	389750.00 389759.00 389778.00	3871670.00	2840,00	ā	0.00000	0.000E+00
22	PROP 002	389759.00	3871788.00	2850.00	ŏ	0.00000	0.000E+00
22 23	PROP.003	389778.00	3871908.00	2850.00	Ō	0.00000	0.000E+00
24	PROP.004	389803.00	3872019.00	2850.00	ō	0.00000	0.000E+00
25	PROP.005	389826.00	3872073.00	2850.00	Ō	0.00000	0.000E+00
25 26 27	PROP.006	389928.00	3872271.00	2850.00	õ	0.00000	0.000E+00
27	PROP.007	390027.00	3872472.00	2850.00	ā	0.00000	0.000E+00
28	PROP.008	390083.00	3872582.00	2835.00	ă	0.00000	0.000E+00
29	FROP.009	390203.00	3872720.00	2830.00	Ō	0.00000	0.000E+00
30	PROP.010	390252.00	3872758.00	2830.00	ŏ	0.00000	0.000E+00
31	PROP.011	390252.00 390352.00	3872832.00	2820.00	ŏ	0.00000	0.000E+00
32	PROP 012	390434.00	3872889.00	2820.00	Č	0.00000	0.000E+00
33	PROP. 013	390669.00	3872895.00	2820.00	ŏ	0.00000	0.000E+00
34	PROP.014	390904.00	3872902.00	2820.00	ŏ	0.00000	0.000E+00
35	PROP.015	391139.00	3872908.00	2820.00	ă	0.00000	0.000E+00
36	PROP. 016	391374.00		2820.00	ď	0.00000	0.000E+00
35 36 37	PROP_017	391609.00		2810.00	ă	0.00000	0.000E+00
••	*******				•		

38	PROP.018	391844.00 3872928.00	2790.00	0	0.00000	0.000E+00
39	PROP. 019	391844.00 3872735.00	2850.00	Ò	0.00000	0.000E+00
40 41	PROP. 020	391845.00 3872543.00	2900.00	0	0.00000	0.000E+00
42	PROP. 021	391845.00 3872351.00	3000.00		0.00000	0.000E+00
43	FROP. 022 FROP. 023 FROP. 024 FROP. 025 FROP. 026 FROP. 027 FROP. 028 FROP. 031 FROP. 031 FROP. 032 FROP. 033 FROP. 035 FROP. 036 FROP. 036 FROP. 041 FROP. 041 FROP. 042 FROP. 044 FROP. 044 FROP. 045 FROP. 046 FROP. 047 FROP. 048 FROP. 050 FROP. 051 FROP. 051 FROP. 055 FROP. 055 FROP. 055 FROP. 055 FROP. 056 FROP. 057 FROP. 056 FROP. 057 FROP. 056 FROP. 057 FROP. 056 FROP. 057 FROP. 056 FROP. 056 FROP. 066 FROP. 066 FROP. 067 FROP. 066 FROP. 067 FROP. 069 FROP. 069	391846.00 3872159.00 392046.00 3872165.00	3175.00	0	0.00000 0.00000	0.000E+00
44	PROP.024	392246.00 3872172.00	3100.00 2975.00	Ŏ	0.00000	0.000E+00 0.000E+00
45	PROP.025	392446.00 3872178.00	2825.00	ŏ	0.00000	0.000E+00
46	PROP.026	392647.00 3872185.00	2860.00	ŏ	0.00000	0.000E+00
47	PROP.027	392658.00 3871975.00	3090.00	ă	0.00000	0.000E+00
48	PROP.028	392670.00 3871765.00	2900.00	Ġ	0.00000	0.000E+00
49	PROP.029	392682.00 3871555.00	2925.00	0	0.00000	0.000E+00
50	PROP.030	392694.00 3871346.00	2950.00	0	0.00000	0.000E+00
51	PROP.031	392887.00 3871350.00	3000.00	0	0.00000	0.000E+00
52	PROP. 032	393080.00 3871355.00	2950.00	0	0.00000	0.000E+00
53	PROP.033	393273.00 3871360.00	2875.00	0	0.00000	0.000E+00
54 55	PROP. 034	393467.00 3871365.00	3025.00	0	0.00000	0.000E+00
56	PROP.035 PROP.036	393467.00 3871139.00	3000.00	U	0.00000	0.000E+00
57	PROP.037	393467.00 3870914.00 393467.00 3870689.00	3000.00 2760.00	ŭ	0.00000 0.00000	0.000E+00
58	PROP.038	393252.00 3870689.00	2830.00	ŏ	0.00000	0.000E+00 0.000E+00
59	PROP.039	393037.00 3870689.00	3020.00	ŏ	0.00000	0.000E+00
60	PROP.040	392822,00 3870689,00	3110.00	ă	0.00000	0.000E+00
61	PROP.041	392607.00 3870689.00	3440.00	ā	0.0000	0.000E+00
62	PROP.042	392392.00 3870689.00	3500.00	0	0.00000	0.000E+00
63	PROP.043	392178.00 3870689.00	3120.00	Q	0.00000	0.000E+00
64	PROP.044	392178.00 3870521.00	3020.00	Q	0.00000	0.000E+00
65	PROP. 045	392010.00 3870521.00	3180.00	Q	0.00000	0.000E+00
66 67	PROP.046 PROP.047	391842.00 3870521.00	3120.00	0	0.00000	0.000E+00
68	FROP.048	391643.00 3870520.00 391445.00 3870519.00	3060.00 3030.00	Ü	0.00000 0.00000	0.000E+00
69	PROP. 049	391445.00 3870519.00 391247.00 3870518.00	3180.00	ů	0.00000	0.000E+00 0.000E+00
70	PROP.050	391049.00 3870518.00	3120.00	Õ	0.00000	0.000E+00
71	PROP.051	391044.00 3870310.00	3300.00	ŏ	0.00000	0.000E+00
72	PROP. 052	391040.00 3870103.00	3140.00	ŏ	0.00000	0.000E+00
73	PROP.053	391036.00 3869895.00	2980.00	0	0.00000	0.000E+00
74	PROP.054	391032.00 3869688.00	3120.00	0	0.00000	0.000E+00
75	PROP.055	390827.00 3869681.00	3000.00	C	0.00000	0.000E+00
76	PROP.056	390623.00 3869674.00	2920.00	0	0.00000	0.000E+00
77	PROP. 057	390419.00 3869667.00	2910.00	Q	0.00000	0.000E+00
78	PROP. 058	390215.00 3869661.00	3000.00	0	0.00000	0.000E+00
79 80	PROP. 059	390214.00 3869865.00	3020.00	0	0.00000	0.000E+00
81	PROP.060 PROP.061	390213.00 3870070.00	2930.00	ŭ	0.00000	0.000E+00
82	PROP.062	390212.00 3870275.00 390212.00 3870480.00	2920.00 2880.00	Ů,	0.00000	0.000E+00
83	PROP.063	390211.00 3870677.00	2870.00	Ŏ	0.00000 0.00000	0.000E+00
84	PROP.064	390210.00 3870875.00	2860.00	ň	0.00000	0.000E+00 0.000E+00
85	PROP.065	390209.00 3871072.00	2860.00	ŏ	0.00000	0.000E+00
86	PROP.066	390209.00 3871270.00	2870.00	ō	0.00000	0.000E+00
87	PROP.067	390039.00 3871272.00	2840.00	Ö	0.00000	0.000E+00
88	PROP.068	389869.00 3871274.00	2840.00	0	0.00000	0.000E+00
89	PROP.069	389700.00 3871276.00	2840.00	0	0.00000	0.000E+00
90	PROP.070	389725.00 3871473.00	2840.00	0	0.00000	0.000E+00
91 92	100.0001	391600.00 3870100.00	2840.00	0	0.00000	0.000E+00
93	100.0002 100.0003	391700.00 3870100.00 391800.00 3870100.00	2840.00 2850.00	Ü	0.00000 0.00000	0.000E+00
94	100.0004	391800.00 3870100.00 391900.00 3870100.00	2900.00	0	0.00000	0.000E+00 0.000E+00
95	100.0005	392000.00 3870100.00	2900.00	ă	0.00000	0.000E+00
96	100.0006	392100.00 3870100.00	2870.00	ŏ	0.00000	0.000E+00
97	100.0007	392200.00 3870100.00	2900.00	Ó	0.00000	0.000E+00
98	100.0008	392300.00 3870100.00	2790.00	0	0.00000	0.000E+00
99	100.0009	392400.00 3870100.00	2900.00	0	0.00000	0.000E+00
100	100.0010	392500.00 3870100.00	2880.00	o o	0.00000	0.000E+00
101	100.0011	392600.00 3870100.00	2960.00	0	0.00000	0.000E+00
102 103	100.0012	392700.00 3870100.00	3070.00	0	0.00000	0.000E+00
104	100.0013 100.0014	391600.00 3870200.00 391700.00 3870200.00	2860.00 2880.00	0	0.00000	0.000E+00
105	100.0015	391700.00 3870200.00 391800.00 3870200.00	2890.00	ŏ	0.00000 0.00000	0.000E+00 0.000E+00
106	100.0016	391900.00 3870200.00	2930.00	ŏ	0.00000	0.000E+00
107	100.0017	392000_00 3870200_00	2920.00	ŏ	0.00000	0.000E+00
108	100.0018	392100.00 3870200.00	2910.00	Ó	0.00000	0.000E+00
109	100.0019	392200.00 3870200.00	2920.00	o o	0.00000	0.000E+00
110	100.0020	392300.00 3870200.00	2940.00	0	0.00000	0.000E+00
111 112	100.0021	392400.00 3870200.00	2930.00	0	0.00000	0.000E+00
113	100.0022 100.0023	392500.00 3870200.00 392600.00 3870200.00	2950.00	0	0.00000	0.000E+00
114	100.0023	392600.00 3870200.00 392700.00 3870200.00	2970.00 3120.00	0	0.00000 0.00000	0.000E+00 0.000E+00
115	100.0024	392700.00 3870200.00	2900.00	0	0.00000	0.000E+00
115 116	100.0025	391700.00 3870300.00	2920.00	ŏ	0.00000	0.000E+00
117	100.0027	391800.00 3870300.00	2930.00	ŏ	0.00000	0.000E+00
118	100.0028	391900.00 3870300.00	2960.00	Õ	0.00000	0.000E+00
119	100.0029	392000.00 3870300.00	3000.00	0	0.00000	0.000E+00 0.000E+00
120	100.0030	392100.00 3870300.00	2960.00	0	0.00000	0.000E+00
121 122 123	100.0031	392200.00 3870300.00	2940.00	0	0.00000	0.000E+00
122	100.0032	392300.00 3870300.00	2980.00	0	0.00000	0.000E+00
123	100.0033	392400.00 3870300.00	2980.00	0	0.00000	0.000E+00
125	100.0034 100.0035	392500.00 3870300.00 392600.00 3870300.00	3020.00 3140.00	ŭ	0.00000	0.000E+00 0.000E+00
126	100.0035	392600.00 3870300.00 392700.00 3870300.00	3170.00	0	0.00000	0.000E+00
127	100.0037	391600.00 3870400.00	2940.00	ŭ	0.00000	0.000E+00
128	100.0038	391700.00 3870400.00	2950.00	ă	0.00000	0.000E+00
129	100.0039	391800.00 3870400.00	2980.00	ŏ	0.00000	0.000E+00
130	100.0040	391900.00 3870400.00	3060.00	Ō	0.00000	0.000E+00
131	100.0041	392000.00 3870400.00	3140.00	Q	0.00000	0.000E+00
132	100.0042	392100.00 3870400.00	3020.00	0	0.00000	0.000E+00
133	100.0043	392200.00 3870400.00	2980.00	0	0.00000	0.000E+00
134	100.0044	392300.00 3870400.00	3040.00	. 0	0.00000	0.000E+00

135	100.0045	392400.00 3870400.00	3110 00	•		
136	100.0046	392500.00 3870400.00	3110.00 3280.00	0	0.00000	0.000E+00
137	100.0047	392600.00 3870400.00	3250.00	ŏ	0.00000 0.00000	0.000E+00 0.000E+00
138	100.0048	392700.00 3870400.00	3260.00	ŏ	0.00000	0.000E+00
139 140	100.0049	391600.00 3870500.00	3020.00	ō	0.00000	0.000E+00
141	100.0050 100.0051	391700.00 3870500.00	3040.00	0	0.00000	0.000E+00
142	100.0052	391800.00 3870500.00 391900.00 3870500.00	3060.00	0	0.00000	0.000E+00
143	100.0053	391900.00 3870500.00 392000.00 3870500.00	3200.00	0	0.00000	0.000E+00
144	100.0054	392100.00 3870500.00	3200.00 3060.00	0	0.00000 0.00000	0.000E+00
145	100.0055	392200.00 3870500.00	3040.00	ŏ	0.00000	0.000E+00 0.000E+00
146	100.0056	392300.00 3870500.00	3140.00	ŏ	0.00000	0.000E+00
147	100.0057	392400.00 3870500.00	3240.00	ă	0.00000	0.000E+00
148 149	100.0058	392500.00 3870500.00	3320.00	0	0.00000	0.000E+00
150	100.0059 100.0060	392600.00 3870500.00	3400.00	0	0.00000	0.000E+00
151	100.0061	392700.00 3870500.00 392200.00 3870600.00	3400.00	0	0.00000	0.000E+00
152	100.0062	392200.00 3870600.00 392300.00 3870600.00	3110.00 3280.00	0	0.00000	0.000E+00
153	100.0063	392400,00 3870600,00	3430.00	Ö	0.00000 0.00000	0.000E+00
154	100.0064	392500.00 3870600.00	3130.00	ă	0.00000	0.000E+00 0.000E+00
155 156	100.0065	392600.00 3870600.00	3520.00	ā	0.00000	0.000E+00
157	100.0066 250.0001	392700.00 3870600.00	3390.00	0	0.00000	0.000E+00
158	250.0002	391000.00 3869500.00 391250.00 3869500.00	3070.00	o o	0.00000	0.000E+00
159	250.0003	391250.00 3869500.00 391500.00 3869500.00	3140.00	0	0.00000	0.000E+00
160	250.0004	391750.00 3869500.00	2880.00 2730.00	0	0.00000 0.00000	0.000E+00
161	250.0005	392000.00 3869500.00	2710.00	ŏ	0.00000	0.000E+00 0.000E+00
162	250.0006	392250.00 3869500.00	2700.00	ŏ	0.00000	0.000E+00
163 164	250.0007 250.0008	392500.00 3869500.00	2690.00	Ö	0.00000	0.000E+00
165	250.0008	392750.00 3869500.00	2660.00	0	0.00000	0.000E+00
166	250.0010	393000.00 3869500.00 393250.00 3869500.00	2670.00	0	0.00000	0.000E+00
167	250.0011	393500.00 3869500.00	2650.00 2610.00	0	0.00000	0.000E+00
168	250.0012	391250.00 3869750.00	2890.00	ŏ	0.00000 0.00000	0.000E+00 0.000E+00
169	250.0013	391500.00 3869750.00	2790.00	ă	0.00000	0.000E+00
170	250.0014	391750.00 3869750.00	2760.00	Ö	0.00000	0.000E+00
171 172	250.0015 250.0016	392000.00 3869750.00	2770.00	0	0.00000	0.000E+00
173	250.0017	392250.00 3869750.00	2760.00	0	0.00000	0.000E+00
174	250.0018	392500.00 3869750.00 392750.00 3869750.00	2760.00	0	0.00000	0.000E+00
175	250.0019	392750.00 3869750.00 393000.00 3869750.00	2800.00 2840.00	0	0.00000	0.000E+00
176	250.0020	393250.00 3869750.00	2720.00	0	0.00000	0.000E+00
177	250.0021	393500.00 3869750.00	2700.00	ŏ	0.00000 0.00000	0.000E+00 0.000E+00
178	250.0022	391250.00 3870000.00	3010.00	ŏ	0.00000	0.000E+00
179 180	250.0023	391500.00 3870000.00	2880.00	0	0.00000	0.000E+00
181	250.0024 250.0025	391750.00 3870000.00	2810.00	0	0.00000	0.000E+00
182	250.0025	392000.00 3870000.00 392250.00 3870000.00	2860.00	0	0.00000	0.000E+00
183	250.0027	392250.00 3870000.00 392500.00 3870000.00	2940.00 2850.00	0	0.00000	0.000E+00
184	250.0028	392750.00 3870000.00	3040.00	0	0.00000	0.000E+00
185	250.0029	393000.00 3870000.00	2980.00	ŏ	0.00000 0.00000	0.000E+00 0.000E+00
186	250.0030	393250.00 3870000.00	2860.00	ŏ	0.00000	0.000E+00
187 188	250.0031	393500.00 3870000.00	2760.00	Ō	0.00000	0.000E+00
189	250.0032 250.0033	391250.00 3870250.00	3140.00	0	0.00000	0.000E+00
190	250.0034	391500.00 3870250.00 391750.00 3870250.00	2910.00	0	0.00000	0.000E+00
191	250.0035	392000.00 3870250.00	2910.00 2960.00	0	0.00000	0.000E+00
192	250.0036	392250.00 3870250.00	2940.00	ŏ	0.00000 0.00000	0.000E+00 0.000E+00
193	250.0037	392500.00 3870250.00	2990.00	ŏ	0.00000	0.000E+00
194 195	250.0038	392750.00 3870250.00	3180.00	Ŏ	0.00000	0.000E+00
196	250.0039 250.0040	393000.00 3870250.00	2980.00	0	0.00000	0.000E+00
197	250.0041	393250.00 3870250.00 393500.00 3870250.00	3000.00	0	0.00000	0.000E+00
198	250.0042	393500.00 3870250.00 391250.00 3870500.00	2840.00 3160.00	0	0.00000	0.000E+00
199	250.0043	391500.00 3870500.00	3000.00	ő	0.00000 0.00000	0.000E+00 0.000E+00
200	250.0044	391750.00 3870500.00	3040.00	ŏ	0.00000	0.000E+00
201	250.0045	392250.00 3870500.00	3100.00	0	0.00000	0.000E+00
202 203	250.0046 250.0047	392750.00 3870500.00	3380.00	ġ.	0.00000	0.000E+00
204	250.0047	393000.00 3870500.00 393250.00 3870500.00	3100.00	0	0.00000	0.000E+00
205	250.0049	393250.00 3870500.00 393500.00 3870500.00	2880.00 2820.00	0	0.00000 0.00000	0.000E+00
206	250.0050	393500.00 3870750.00	2840.00	ŭ	0.00000	0.000E+00 0.000E+00
207	250.0051	393500.00 3871000.00	3050.00	ŏ	0.00000	0.000E+00
208 209	500.0001	386000.00 3867500.00	2840 00	0	0.00000	0.000E+00
210	500.0002 500.0003	386500.00 3867500.00	2840.00	0	0.00000	0.000E+00
210 211	500.0004	387000.00 3867500.00 387500.00 3867500.00	2830.00	0	0.00000	0.000E+00
212	500.0005	387500.00 3867500.00 388000.00 3867500.00	2810.00 2800.00	0	0.00000	0.000E+00
213	500.0006	388500.00 3867500.00	2790.00	0	0.00000 0.00000	0.000E+00 0.000E+00
214	500.0007	389000.00 3867500.00	2770.00	ŏ	0.00000	0.000E+00
215	500.0008	389500.00 3867500.00	2750.00	Ō	0.00000	0.000E+00
216 217	500.0009 500.0010	390000.00 3867500.00	2740.00	Ö	0.00000	0.000E+00
217 218	500.0011	390500.00 3867500.00 391000.00 3867500.00	2730.00	0	0.00000	0.000E+00
219	500.0012	391000.00 3867500.00 391500.00 3867500.00	2710.00	G	0.00000	0.000E+00
220	500.0013	392000.00 3867500.00	2690.00 2670.00	0	0.00000 0.00000	0.000E+00
220 221 222	500.0014	392500.00 3867500.00	2650.00	ŏ	0.00000	0.000E+00 0.000E+00
222	500.0015	393000.00 3867500.00	2630.00	ŏ	0.00000	0.000E+00
223 224	500.0016 500.0017	393500.00 3867500.00	2600.00	0	0.00000	0.000E+00
225	500.0017 500.0018	394000.00 3867500.00	2590.00	0	0.00000	0.000E+00
225 226	500.0019	394500.00 3867500.00 395000.00 3867500.00	2580.00	0	0.00000	0.000E+00
227	500.0020	395000.00 3867500.00 386000.00 3868000.00	2560.00	0	0.00000	0.000E+00
228	500.0021	386500.00 3868000.00	2860.00 2860.00	0	0.00000 0.00000	0.000E+00
229	500.0022	387000.00 3868000.00	2860.00	ŏ	0.00000	0.000E+00 0.000E+00
230 231	500.0023	387500.00 3868000.00	2840.00	ŏ	0.00000	0.000E+00
431	500.0024	388000.00 3868000.00	2820.00	ŏ	0.00000	0.000E+00

232 233 235 235 236 237 239 240 241 242 242 244 245 246 247 248 249 251	500.0025 500.0026 500.0027 500.0028 500.0039 500.0031 500.0032 500.0033 500.0034 500.0035 500.0036 500.0037 500.0038 500.0038 500.0039 500.0040 500.0041 500.0042 500.0043 500.0043	388500.00 3868000.00 389000.00 3868000.00 389500.00 3868000.00 390500.00 3868000.00 391500.00 3868000.00 391500.00 3868000.00 391500.00 3868000.00 392500.00 3868000.00 393500.00 3868000.00 393500.00 3868000.00 393500.00 3868000.00 394500.00 3868000.00 394500.00 3868000.00 39500.00 3868000.00 39500.00 3868000.00 38500.00 3868500.00 387500.00 3868500.00 387500.00 3868500.00 387500.00 3868500.00 388500.00 3868500.00	2800.00 2780.00 2770.00 2770.00 2740.00 2720.00 2680.00 2680.00 2610.00 2590.00 2580.00 2580.00 2580.00 2580.00 2880.00 2880.00 2880.00 2880.00 2880.00	0 0.00000 0 0.00000	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
252 253	500.0045 500.0046	389000.00 3868500.00 389500.00 3868500.00	2800.00 2780.00	0 0.00000 0 0.00000	0.000E+00 0.000E+00
254 255	500.0047 500.0048	390000.00 3868500.00 390500.00 3868500.00	2770.00 2740.00	0 0.00000 0 0.00000 0 0.00000	0.000E+00 0.000E+00 0.000E+00
256 257 258	500.0049 500.0050	391000.00 3868500.00 391500.00 3868500.00 392000.00 3868500.00	2730.00 2710.00 2680.00	0 0.00000	0.000E+00 0.000E+00
259 260	500.0051 500.0052 500.0053	392000.00 3868500.00 392500.00 3868500.00 393000.00 3868500.00	2660.00 2620.00	0 0.00000	0.000E+00 0.000E+00
261 262	500.0054 500.0055	393500.00 3868500.00 394000.00 3868500.00	2600.00 2590.00	0 0.00000	0.000E+00 0.000E+00
263 264	500.0056 500.0057	394500.00 3868500.00 395000.00 3868500.00	2580.00 2565.00	0 0.00000	0.000E+00 0.000E+00
265 266	500.0057 500.0058 500.0059	386000.00 3869000.00 386500.00 3869000.00	2910.00 2900.00	0 0.00000	0.000E+00 0.000E+00
267 268	500.0060 500.0061	387000.00 3869000.00 387500.00 3869000.00	2890.00 2880.00	0 0.00000	0.000E+00 0.000E+00
269 270	500.0062 500.0063	388000.00 3869000.00 388500.00 3869000.00	2865.00 2840.00	0 0.00000	0.000E+00 0.000E+00
271 272	500.0064 500.0065	389000.00 3869000.00 389500.00 3869000.00	2820.00 2800.00	0 0.00000	0.000E+00 0.000E+00
273 274	500.0066 500.0067	390000.00 3869000.00 390500.00 3869000.00	2820.00 2960.00	0 0.00000	0.000E+00 0.000E+00
275 276	500.0068 500.0069	391000.00 3869000.00 391500.00 3869000.00	2880.00 2720.00	0 0.00000 0 0.00000	0.000E+00 0.000E+00
277 278	500.0070 500.0071	392000.00 3869000.00 392500.00 3869000.00	2680.00 2650.00	0 0.00000 0 0.00000	0.000E+00 0.000E+00
279 280	500.0072 500.0073	393000.00 3869000.00 393500.00 3869000.00	2620.00 2600.00	0 0.00000	0.000E+00 0.000E+00
281 282	500.0074 500.0075	394000.00 3869000.00 394500.00 3869000.00	2590.00 2580.00	0 0.00000	0.000E+00 0.000E+00
283 284	500.0076 500.0077	395000.00 3869000.00 386000.00 3869500.00	2570.00 2920.00	0 0.00000	0.000E+00 0.000E+00
285 286	500.0078 500.0079	386500.00 3869500.00 387000.00 3869500.00	2920.00 2910.00	0 0.00000	0.000E+00 0.000E+00
287 288	500.0080 500.0081	387500.00 3869500.00 388000.00 3869500.00	2890.00 2880.00	0 0.00000 0 0.00000	0.000E+00
289 290	500.0082 500.0083	388500.00 3869500.00 389000.00 3869500.00	2860.00 2840.00	0 0.00000 0 0.00000	0.000E+00 0.000E+00
291 292	500.0084 500.0085	389500.00 3869500.00 390000.00 3869500.00	2800.00 3340.00	0 0.00000 0 0.00000	0.000E+00 0.000E+00
293 294	500.0086 500.0087	390500.00 3869500.00 394000.00 3869500.00	2850.00 2590.00	0 0.00000 0 0.00000	0.000E+00 0.000E+00
295 296	500.0088 500.0089	394500.00 3869500.00 395000.00 3869500.00	2580.00 2570.00	0 0.00000 0 0.00000	0.000E+00 0.000E+00 0.000E+00
297 298	500.0090 500.0091	386000.00 3870000.00 386500.00 3870000.00	2940.00 2940.00	0 0.00000 0 0.00000 0 0.00000	0.000E+00
299 300	500.0092 500.0093	387000.00 3870000.00 387500.00 3870000.00	2930.00 2900.00	0 0.00000	0.000E+00
301 302	500.0094 500.0095	38800.00 3870000.00 388500.00 3870000.00	2880.00 2860.00 2840.00	0 0.00000 0 0.00000	0.000E+00
303 304	500.0096 500.0097	389000.00 3870000.00 389500.00 3870000.00 390000.00 3870000.00	2820.00 2900.00	0 0.00000	0.000E+00
305 306	500.0098 500.0099	390000.00 3870000.00 394000.00 3870000.00 394500.00 3870000.00	2600.00 2590.00	0 0.00000	0.000E+00
307 308	500.0100 500.0101 500.0102	395000.00 3870000.00 386000.00 3870500.00	2570.00 2970.00	0 0.0000	0.000E+00
309 310	500.0103	386500.00 3870500.00 387000.00 3870500.00	2960.00 2950.00	0 0.00000	0.000E+00
311 312 313	500.0104 500.0105 500.0106	387500.00 3870500.00 388000.00 3870500.00	2910.00 2880.00	0 0.00000 0 0.00000	0.000E+00
314 315	500.0106 500.0107 500.0108	388500.00 3870500.00 389000.00 3870500.00	2860.00 2840.00	0 0.00000	0.000E+00
316 317	500.0109 500.0110	389500.00 3870500.00 390000.00 3870500.00	2820.00 2850.00	0 0.0000	0.000E+00
318 319	500.0111 500.0112	394000.00 3870500.00 394500.00 3870500.00	2720.00 2670.00	0 0.0000	0.000E+00
320 321	500.0112 500.0113 500.0114	395000.00 3870500.00 386000.00 3871000.00	2590.00 2990.00	0 0.0000	0.000E+00
322 323	500.0114 500.0115 500.0116	386500.00 3871000.00 387000.00 3871000.00	2970.00 2940.00	0 0.0000	0.000E+00
324 325	500.0118 500.0117 500.0118	387500.00 3871000.00 388000.00 3871000.00	2910.00 2890.00	0 0.0000 0 0.0000	0 0.000E+00
325 326 327	500.0118 500.0119 500.0120	388500.00 3871000.00 389000.00 3871000.00	2870.00 2820.00	0 0.0000 0 0.0000	0 0.000E+00
328	500.0121	389500.00 3871000.00	2840.00	0 0.0000	0 0.000E+00

500.0122	390000.00 38	871000.00	2840.00	0	0.00000	0.000E+00
500.0123		871000.00	2640.00	Ō		0.000E+00
500.0124	394500.00 3	871000.00	2605.00	0	0.00000	0.000E+00
500.0125	395000.00 3	871000.00	2590.00	0	0.00000	0.000E+00
500.0126	386000.00 3	871500.00	3000.00	0	0.00000	0.000E+00
500.0127		871500.00	2980.00	0	0.00000	0.000E+00
500.0128		871500.00	2960.00	0	0.00000	0.000E+00
500.0129		871500.00	2930.00	0	0.00000	0.000E+00
500.0130		871500.00	2910.00	0	0.00000	0.000E+00
500.0131 500.0132		871500.00	2880.00	0	0.00000 0.00000	0.000E+00
500.0133		871500.00 871500.00	2860.00 2840.00	ŏ	0.00000	0.000E+00 0.000E+00
500.0134		871500.00	2940.00	ŏ	0.00000	0.000E+00
500.0135		871500.00	2740.00	ŏ	0.00000	0.000E+00
500.0136		871500.00	2640.00	Ō	0.00000	0.000E+00
500.0137		871500.00	2610.00	0	0.00000	0.000E+00
500.0138		871500.00	2600.00	0	0.00000	0.000E+00
500.0139		872000.00	3020.00	O.	0.00000	0.000E+00
500.0140		872000.00	3000.00	Q	0.00000	0.000E+00
500.0141		872000.00	2970.00	0	0.00000	0.000E+00
500.0142 500.0143		1872000,00 1872000,00	2940.00 2920.00	0	0.00000 0.00000	0.000E+00
500.0144		872000.00	2900.00	ŏ	0.00000	0.000E+00 0.000E+00
500.0145		872000.00	2880.00	ŏ	0.00000	0.000E+00
500.0146		872000.00	2860.00	ŏ	0.00000	0.000E+00
500.0147		872000.00	2760.00	ŏ	0.00000	0.000E+00
500.0148		872000.00	2690.00	ŏ	0.00000	0.000E+00
500.0149		872000.00	2650.00	Ó	0.00000	0.000E+00
500.0150	394500.00 3	872000.00	2630.00	0	0.00000	0.000E+00
500.0151		3872000.00	2610.00	0	0.00000	0.000E+00
500.0152		872500.00	3040.00	0	0.00000	0.000E+00
500.0153		872500.00	3020.00	o o	0.00000	0.000E+00
500.0132 500.0133 500.0134 500.0135 500.0138 500.0139 500.0140 500.0141 500.0142 500.0143 500.0144 500.0144 500.0145 500.0146 500.0147 500.0148 500.0149 500.0150 500.0151 500.0151 500.0152 500.0155 500.0156 500.0158		872500.00	2990.00	Q	0.00000	0.000E+00
500.0155		3872500.00	2960.00	0	0.00000	0.000E+00
500.0156		3872500.00	2940.00	0	0.00000	0.000E+00
500.0157 500.0158		3872500.00	2910.00	0	0.00000	0.000E+00
500.0159		3872500.00 3872500.00	2880.00 2860.00	0	0.00000	0.000E+00 0.000E+00
500.0160		3872500.00	2870.00	ŏ	0.00000	0.000E+00
500.0161		3872500.00	2920.00	ŏ	0.00000	0.000E+00
500.0162		3872500.00	2810.00	ŏ	0.00000	0.000E+00
500.0163		3872500.00	2720.00	ā	0.00000	0.000E+00
500.0164		3872500.00	2680.00	0	0.00000	0.000E+00
		3872500.00	2660.00	0	0.00000	0.000E+00
500.0166		3872500.00	2640.00	0	0.00000	0.000E+00
500.0167		3872500.00	2610.00	Q	0.00000	0.000E+00
500.0168		3873000.00	3060.00	0	0.00000	0.000E+00
500.0169		3873000.00	3040.00	Q	0.00000	0.000E+00
500.0170 500.0171		3873000.00 3873000.00	3010.00 2980.00	0	0.00000	0.000E+00
500.0172		3873000.00	2950.00	ŏ	0.00000 0.00000	0.000E+00 0.000E+00
500.0173		3873000.00	2920.00	ŏ	0.00000	0.000E+00
500.0174		3873000.00	2900.00	Ŏ.	0.00000	0.000E+00
500.0175		3873000.00	2870.00	ŏ	0.00000	0.000E+00
500.0176		3873000.00	2845.00	Ö	0.00000	0.000E+00
500.0177		3873000.00	2820.00	0	0.00000	0.000E+00
500.0178	391000.00	3873000.00	2810.00	0	0.00000	0.000E+00
500.0179		3873000.00	2800.00	0	0.00000	0.000E+00
500.0180		3873000.00	2760.00	Q	0.00000	0.000E+00
500.0181		3873000.00	2740.00	0	0.00000	0.000E+00
500.0182 500.0183		3873000.00 3873000.00	2710.00	0	0.00000 0.00000	0.000E+00 0.000E+00
500.0184	394000.00	3873000.00	2680.00 2660.00	ŏ	0.00000	0.000E+00
500.0185		3873000.00	2640.00	ŏ	0.00000	0.000E+00
500.0186		3873000.00	2620.00	ŏ	0.00000	0.000E+00
500.0187		3873500.00	3080.00	Ō	0.00000	0.000E+00
500.0188	386500.00	3873500.00	3050.00	0	0.00000	0.000E+00
500.0189	387000.00	3873500.00	3020.00	0	0.00000	0.000E+00
500.0190	387500.00	3873500.00	2990.00	Ŏ	0.00000	0.000E+00
500.0191 500.0192	388000.00 388500.00	3873500.00	2960.00 2930.00	0	0.00000	0.000E+00
500.0193	389000.00	3873500.00 3873500.00	2900.00	Ö	0.00000 0.00000	0.000E+00 0.000E+00
500.0194	389500.00	3873500.00	2880.00	ŏ	0.00000	0.000E+00
500.0195	390000.00	3873500.00	2850.00	ŏ	0.00000	0.000E+00
500.0196	390500.00	3873500.00	2830.00	ő	0.00000	0.000E+00
500.0197	391000.00	3873500.00	2800.00	ŏ	0.00000	0.000E+00
500.0198	391500.00	3873500.00	2780.00	ŏ	0.00000	0.000E+00
500.0199	392000.00	3873500.00	2750.00	0	0.00000	0.000E+00
500.0200	392500.00	3873500.00	2760.00	0	0.00000	0.000E+00
500.0201	393000.00	3873500.00	2720.00	0	0.00000	0.000E+00
500.0202	393500.00	3873500.00	2680.00	0	0.00000	0.000E+00
500.0203	394000.00	3873500.00	2700.00	0	0.00000	0.000E+00
500.0204 500.0205	394500.00 395000.00	3873500.00 3873500.00	2640.00 2620.00	0 0	0.00000	0.000E+00 0.000E+00
500.0206	388000.00	3874000.00	2980.00	Ö	0.00000	0.000E+00
500.0207	388000.00	3874500.00	2980.00	ů	0.00000	0.000E+00
500.0208	388000.00	3875000.00	2990.00	ŏ	0.00000	0.000E+00
500.0209	388500.00	3874000.00	2940.00	ŏ	0.00000	0.000E+00
500.0210	388500.00	3874500.00	2950.00	0	0.00000	0.000E+00
500.0211	388500.00	3875000.00	2960.00	Q	0.00000	0.000E+00
500.0212	389000.00	3874000.00	2910.00	0	0.00000	0.000E+00
500.0213	389000.00	3874500.00	2920.00	0	0.00000	0.000E+00
500.0214	389000.00	3875000.00	2920.00	0	0.00000	0.000E+00
500.0215 500.0216	389500.00 389500.00	3874000.00 3874500.00	2880.00 2890.00	0	0.00000	0.000E+00 0.000E+00
500.0217	389500.00	3875000.00	2900.00	ů	0.00000	0.000E+00
500.0218	390000.00	3874000.00	2860.00	ŏ	0.00000	0.000E+00
				-		

			2860.00	n	0.00000	0.000E+00
426	500.0219	390000.00 3874500.00	T 1	ň	0.00000	0.000E+00
427	500.0220	390000.00 3875000.00		ž	0.00000	0.000E+00
428	500.0221	390500.00 3874000.00		ž	0.00000	0.000E+00
429	500.0222	390500.00 3874500.00		ŭ		0.000E+00
430	500.0223	390500.00 3875000.00		Ų	0.00000	
431	500.0224	391000.00 3874000.00	2800.00	O.	0.00000	0.000E+00
432	500.0225	391000.00 3874500.00	2810.00	Q	0.00000	0.000E+00
433	500.0226	391000.00 3875000.00	2810.00	0	0.00000	0.000E+00
434	500.0227	391500.00 3874000.00	2780.00	0	0.00000	0.000E+00
	500.0228	391500.00 3874500.00		0	0.00000	0.000E+00
435		391500.00 3875000.00		0	0.00000	0.000E+00
436	500.0229	392000.00 3874000.00		0	0.00000	0.000E+00
437	500.0230			Ó	0.00000	0.000E+00
438	500.0231			ā	0.00000	0.000E+00
439	500.0232		T-11	ň	0.00000	0.000E+00
440	500.0233	392500.00 3874000.00		ő	0.00000	0.000E+00
441	500.0234	392500.00 3874500.00		ŏ	0.00000	0.000E+00
442	500.0235	392500.00 3875000.00		ň	0.00000	0.000E+00
443	500.0236	393000.00 3874000.00		ž	0.00000	0.000E+00
444	500.0237	393000.00 3874500.00		ž	0.00000	0.000E+00
445	500,0238	393000.00 3875000.00		ŭ	0.00000	0.000E+00
446	500.0239	393500.00 3874000.00		ŭ		
447	500.0240	393500.00 3874500.00		ŭ	0.00000	0.000E+00
448	500.0241	393500.00 3875000.00		Ū	0.00000	0.000E+00
449	500.0242	394000.00 3874000.00		0	0.00000	0.000E+00
450	500.0243	394000.00 3874500.00	2660.00	o o	0.00000	0.000E+00
451	500.0244	394000.00 3875000.00	2680.00	0	0.00000	0.000E+00
431	200.5244	55.538.00 00.5000.00				

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, TSP \* OUTFUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\gqtspace.dat Output File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 44

#### \*\*\* PATHWAY-SPECIFIC DATA \*\*\*

```
*** RISK LEVELS ***
Significant risk level
Zone of impact risk level
Significant hazard index for acute exposure
Significant hazard index for chronic exposure
*** INHALATION PATHWAY ***
Respiration rate (RR) (m3/d)
Average body weight (ABW) (kg)
*** MULTIPATHWAY POLLUTANTS
Number of multipathway pollutants
Symbol and identification number - Arsenic
- Berylli
                                                                                                                                                                                                                                                                                             1.00E-06
1.00E-07
0.50
                                                                                                                                                                                                                                                                                             0.50
                                                                                                                                                                                                                                                                                             20.0
70.0
                                                                                                                                                                                                                                                                                                          27
                                                                                                                                                                                                                                                                                                                                 10
17
22
29
36
55
33
                                                                                                                                                                                 - Arsenic
- Beryllium
- Cadmium
                                                                                                                                                                                                                                                                                             Be
Cd
CBZ
                                                                                                                                                                                           Chlorobenzene
                                                                                                                                                                                         Chlorobenzene C52
Chromium (hex.) Cr
Dioxins/Dibenzofuran TCDD
2-Chlorophenol CFHE2
p-Dichlorobenzene FDC3
Eexachlorobenzene HCB
                                                                                                                                                                                          2-Chlorophenol
p-Dichlorobenzene
Hexachlorobenzene
                                                                                                                                                                                           Hexachlorocyclohexan HCHEX
                                                                                                                                                                                                                                                                                                                                   83
                                                                                                                                                                                           Lead
                                                                                                                                                                                           Mercury
Mitrosodiethylamine
NNETH
NNitrosodimethylamin NNETH
                                                                                                                                                                                         NNitrosodimethylamin NNETT
NNitrosodiphenylamin PNPHE
NNitrosodiphenylamin NNBUT
NNitrosodippropylami NNDET
NNitrosomorpholine
NNitrosomorpholine
NNitrosomorpholine
NNitrosomorpholine
NNitrosomorpholine
NNHPH
NNHPH
NNHPH
NAPTH
PAH
PAH
PAH
PCB
                                                                                                                                                                                                                                                                                                                                105
                                                                                                                                                                                                                                                                                                                              106
                                                                                                                                                                                                                                                                                                                                108
                                                                                                                                                                                                                                                                                                                               109
110
130
129
155
147
157
                                                                                                                                                                                  PAH
PAH
PAH
POlychlor. biphenyls
PC3
Pentachlorophenol
PENTA
2,4,6Trichlorophenol
C246
C2,4,5Trichlorophenol
C245
    *** SOIL ***
Vertical rate of deposition
(Dep_rate) (m/s)
                                                                                                                                                                                  - Arsenic 0.02
- Beryllium 0.02
- Cadmium 0.02
- Chlorobenzene 0.02
- Chromium (hex.) 0.02
- Dioxins/Dibenzofuran 0.02
- 2-Chlorophenol 0.02
- p-Dichlorobenzene 0.02
- Hexachlorocyclohexan 0.02
- Hexachlorocyclohexan 0.02
                                                                                                                                                                                           Hexachlorocyclohexan 0.02
Lead 0.02
Mercury 0.02
Mnitrosodiethylamine 0.02
Mnitrosodinethylamin 0.02
Mnitrosodinphenylamin 0.02
Mnitrosodinphenylamin 0.02
Mnitrosodinpropylami 0.02
Mnitrosodinpropylami 0.02
Mnitrosomorpholine 0.02
Mnitrosopiperidine 0.02
Mnitrosopiperidine 0.02
Mnitrosopiperidine 0.02
Mnitrosopiperidine 0.02
                                                                                                                                                                                                                                                                                               0.02
0.02
0.02
0.02
0.02
                                                                                                                                                                                     - NNitrosopyrrolidine
- Naphthalene
- PAH
```

```
Polychlor. biphenyls 0.02
                                                                                - Pentachlorophenol 0.02
- 2,4,6Trichlorophenol 0.02
- 2,4,5Trichlorophenol 0.02
Beginning of evaluation period (To) (d) End of evaluation period (Tf) (d) Soil mixing depth for human ingestion (SD) (m) Soil bulk density (BD) (kg/m3) Chemical half-life in soil (t1/2)(d) - Arsenic
                                                                                                                                 0.0
25550.0
                                                                                                                                 0.0100
                                                                                                                                 1333.0
                                                                                                                                     1.00E+08
                                                                                    Beryllium
                                                                                                                                      1.00E+08
                                                                                    Cadmium
                                                                                                                                     1.00E+08
1.50E+02
                                                                                    Chlorobenzene
                                                                                   Chromium (hex.)
Dioxins/Dibenzofuran
2-Chlorophenol
                                                                                                                                      1.00E+08
                                                                                                                                     4.38E+03
7.00E+01
                                                                                   p-Dichlorobenzene
Hexachlorobenzene
                                                                                                                                      1.80E+02
                                                                                                                                     2.09E+03
1.70E+02
                                                                                    Hexachlorocyclohexan
                                                                                    Lead
                                                                                                                                      1.00E+08
                                                                                   Mercury
NNitrosodiethylamine
                                                                                                                                      1.00E+08
                                                                                                                                      1.80E+02
                                                                                    NNitrosodimethylamin
                                                                                                                                      1.80E+02
                                                                                    NNitrosodiphenylamin
NNitrosodinbutylamin
                                                                                                                                     1.80E+02
1.80E+02
                                                                                    NNitrosodinpropylami
                                                                                                                                      1.80E+02
                                                                                   NNitromethyethylamin
NNitrosomorpholine
NNitrosopiperidine
NNitrosopyrrolidine
Naphthalene
                                                                                                                                      1.80E+02
                                                                                                                                      1.80E+02
                                                                                                                                      1.80E+02
                                                                                                                                      1.80E+02
                                                                                                                                      4.80E+02
                                                                                                                                      4.80E+02
                                                                                   PAH
Polychlor. biphenyls
Pentachlorophenol
2,4,6Trichlorophenol
2,4,5Trichlorophenol
                                                                                                                                     3.60E+03
1.78E+02
7.00E+01
                                                                                                                                     6.90E+02
           *** WATER ***
 Location (receptor #) of drinking water source
Site-specific water surface area (SA) (m2)
Site-specific water volume (WV) (kg)
Site-specific number of volume changes per year (VC)
                                                                                                                                 -1.0
                                                                                                                                 -1.0
Site-specific number of volume changes per year (VC) -1.0
Site-specific fraction of run-off water (ROf) -1.0
Wash coefficient-fraction of material washed by runoff (WC) -1.0
Site-specific watershed area impacted (WSIA) (m2) -1.0
Site-specific watershed run-off coefficient (ROC) -1.0
Site-specific watershed run-off coefficient (ROC) -1.0

*** VEGETATION ***
Location (receptor *) of crop source
Soil mixing depth (SD) for homegrown crops (m) 0.150
Interception coefficient for root crops (IFC ROOT) 0.0
Interception coefficient for root crops (IFC ROOT) 0.10
Weathering constant (k) (1/d) 0.045
Crop yield (Y) (kg/m2) 2.0
Crop growth period (T) (d) 90.0
Root uptake (UF2) - ROOT - Arsenic - Beryllium 4.0
                                                                                                                                 -1.0
                                                                                                                                 0.150
                                                                                                                                  0.0495
                                                                                                                                     2.00E-03
4.00E-04
4.00E-02
                                                                                - Beryllium
- Cadmium
                                                                                                                                 -1.0
                                                                                    Chlorobenzene
                                                                                                                                     1.00E-03
                                                                                    Chromium (hex.) 1.0
Dioxins/Dibenzofuran -1.0
                                                                                    2-Chlorophenol
                                                                                                                                 -1.0
                                                                                    p-Dichlorobenzene
Hexachlorobenzene
                                                                                                                                 -1.0
                                                                                                                                 -1.0
                                                                                    Hexachlorocyclohexan -1.0
                                                                                    Lead
                                                                                                                                      2.00E-03
                                                                                                                                      2.00E-02
                                                                                    Mercury
                                                                                    NNitrosodiethylamine -1.0
                                                                                    NNitrosodimethylamin -1.0
                                                                                    NNitrosodiphenylamin -1.0
NNitrosodiphutylamin -1.0
                                                                                    NNitrosodinpropylami -1.0
NNitromethyethylamin -1.0
                                                                                    NNitrosomorpholine -1.0
NNitrosopiperidine -1.0
                                                                                    NNitrosopyrolidine -1.0
Naphthalene -1.0
PAH -1.0
                                                                                    PAH -1.0
Polychlor. biphenyls -1.0
Pentachlorophenol -1.0
2,4,6Trichlorophenol -1.0
                                                                                    2,4,5Trichlorophenol -1.0
                                                                                                                                     4.00E-03
1.00E-03
 Root uptake (UF2) - LEAF
                                                                                    Arsenic
Beryllium
                                                                                    Cadmium
                                                                                                                                      6.00E-02
                                                                                                                                 -1.0
                                                                                    Chlorobenzene
                                                                                     Chromium (hex.)
                                                                                                                                      8.00E-04
                                                                                    Dioxins/Dibenzofuran -1.0
2-Chlorophenol -1.0
                                                                                    2-Chlorophenol
p-Dichlorobenzene
Hexachlorobenzene
                                                                                                                                  -1.0
                                                                                    Hexachlorocyclohexan -1.0
5.00E-03
                                                                                                                                      9.00E-02
                                                                                    NNitrosodiethylamine -1.0
NNitrosodimethylamin -1.0
NNitrosodiphenylamin -1.0
                                                                                    NNitrosodinbutylamin -1.0
```

```
NNitrosodinpropylami -1.0
                                                                   NNitromethyethylamin -1.0
NNitrosomorpholine -1.0
NNitrosopiperidine -1.0
                                                                   NNitrosopyrrolidine -1.0
Naphthalene -1.0
                                                                   PAH
                                                                   Polychlor, biphenyls -1.0
Pentachlorophenol -1.0
                                                                   2,4,6Trichlorophenol -1.0
2,4,5Trichlorophenol -1.0
                                                                                                           9.00E-04
2.00E-04
Root uptake (UF2) - VINE
                                                                    Arsenic
                                                                   Beryllium
                                                                    Cadmium
                                                                                                            2.00E-02
                                                                    Chlorobenzene
                                                                                                        -1.0
                                                                   Chromium (hex.) 6.0
Dioxins/Dibenzofuran -1.0
2-Chlorophenol -1.0
                                                                                                           6.00E-04
                                                                    p-Dichlorobenzene
Hexachlorobenzene
                                                                                                        -1.0
                                                                                                        -1.0
                                                                    Hexachlorocyclohexan -1.0
                                                                                                            1.00E-03
3.00E-02
                                                                    Lead
                                                                    Mercury
                                                                    NNitrosodiethylamine -1.0
                                                                    NNitrosodimethylamin -1.0
                                                                    NNitrosodiphenylamin -1.0
NNitrosodinbutylamin -1.0
                                                                    NNitrosodinpropylami -1.0
NNitromethyethylamin -1.0
NNitrosomorpholine -1.0
                                                                    NNitrosopiperidine -1.0
NNitrosopiperidine -1.0
NNitrosopyrrolidine -1.0
Naphthalene PAH
                                                                    PAH -1.0
Polychlor, biphenyls -1.0
                                                                    Pentachlorophenol
                                                                    2,4,6Trichlorophenol -1.0
2,4,5Trichlorophenol -1.0
 Octanol:water partition factor (Kow)
                                                                    Arsenic
                                                                    Beryllium
                                                                                                         -1.0
                                                                                                         -1.0
-1.0
                                                                     Cadmium
                                                                     Chlorobenzene
                                                                     Chlorobenzeue
Chromium (hex.) -1.0
Dioxins/Dibenzofuran -1.0
-1.0
                                                                     p-Dichlorobenzene
Hexachlorobenzene
                                                                     Hexachlorobenzene -1.0
Hexachlorocyclohexan -1.0
                                                                     Mercury +1.0
NNitrosodiethylamine -1.0
                                                                     NNitrosodimethylamin -1.0
NNitrosodiphenylamin -1.0
NNitrosodiphenylamin -1.0
                                                                     NNitrosodinpropylami -1.0
NNitromethyethylamin -1.0
                                                                      NNitrosomorpholine
                                                                     NNitrosopiperidine -1.0
NNitrosopyrrolidine -1.0
Naphthalene -1.0
                                                                     PAH
                                                                     Polychlor. biphenyls -1.0
Pentachlorophenol -1.0
                                                                     2,4,6Trichlorophenol -1.0
                                                                     2,4,5Trichlorophenol -1.0
Arsenic -1.0
  Organic carbon partition coeff (Koc) -
                                                                      Beryllium
                                                                      Cadmium
                                                                                                          -1.0
                                                                                                          -1.0
                                                                      Chlorobenzene
                                                                     Chromium (hex.) -1.0
Dioxins/Dibenzofuran -1.0
2-Chlorophenol -1.0
p-Dichlorobenzene -1.0
                                                                      Hexachlorobenzene
                                                                                                          -1.0
                                                                      Hexachlorocyclohexan -1.0
                                                                      Lead
                                                                      Mercury -1.0
NNitrosodiethylamine -1.0
                                                                      NNitrosodimethylamin -1.0
                                                                      NNitrosodiphenylamin -1.0
NNitrosodiphenylamin -1.0
                                                                      NNitrosodinpropylami
                                                                      NNitromethyethylamin -1.0
NNitrosomorpholine -1.0
                                                                      NNitrosopyrrolidine
                                                                                                           -1.0
-1.0
                                                                      Naphthalene
                                                                      PAH
                                                                   - Polychlor, biphenyls
                                                                   - Pentachlorophenol -1.0
- 2,4,6Trichlorophenol -1.0
- 2,4,5Trichlorophenol -1.0
                                                                                                           -1.0
   Fraction of organic in soil (Foc)

*** ANIMAL PRODUCTS ***
Location (receptor #) of animal farm
Soil mixing depth (SD) for animal pasture (m)
Soil mixing depth (SD) for animal feed (m)
                                                                                                           0.10
                                                                                                           0.010
```

0.150

```
Inhalation rate (RR) (m3/d)
                                                      - Cattle/Lactating
                                                                                           8.00E+01
7.00E+00
                                                      - Pigs
                                                         Poultry
                                                                                            1.00E+00
                                                         Goats/Sheep
                                                                                           6.00E+00
Water ingestion rate (WI) (kg/d)
                                                      - Cattle/Lactating
                                                                                           1.00E+02
                                                      - Pigs
                                                                                           8.00E+00
                                                      - Poultry - Goats/Sheep
                                                                                           6.00E-01
6.00E+00
Site-specific % water ingested from contaminated water (%SW) Site-specific % diet provided by grazing (%G) Site-specific % feed other than pasture locally grown (L)
                                                                                           0.50
                                                                                           1.00
                                                      - Cattle
- Lactating
Feed ingestion rate (FI) (kg/d)
                                                                                            8.00E+00
                                                                                           1.60E+01
2.00E+00
                                                      - Pigs
                                                         Poultry
Goats/Sheep
                                                                                           3.00E-01
                                                                                           2.00E+00
Soil ingested as % of feed ingested
                                                         Cattle/Lactating
                                                                                            1.00E-02
                                                         Pigs
                                                                                            1.00E-02
                                                                                           1.00E-02
                                                         Poultry
                                                         Goats/Sheep
                                                                                            1.00E-02
Soil ingested as % of pasture ingested (%Sp)
                                                      - Cattle/Lactating
                                                                                            5.00E-02
                                                      - Pigs
- Poultry
                                                                                           3.00E-02
                                                                                           3.00E-02
                                                         Goats/Sheep
                                                                                           7.00E-02
Transfer coefficient of contaminant - Arsenic from diet to meat product - Beryllium
                                                                                           2.00E-03
                                                                                            1.00E-03
                                                      - Cadmium
- Chlorobenzene
                                                                                        3.50E-04
-1.0
      (Fi_meat)
                                                         Chromium (hex.)
                                                                                            9.20E-03
                                                       - Dioxins/Dibenzofuran
                                                                                            4.00E-01
                                                       - 2-Chlorophenol
- p-Dichlorobenzene
- Hexachlorobenzene
                                                                                        -1.0
                                                                                        -1.0
                                                         Hexachlorocyclohexan -1.0
                                                       - Lead
                                                                                            4.00E-04
                                                       - Mercury
                                                                                            2.70E-02
                                                         NNitrosodiethylamine -1.0
NNitrosodimethylamin -1.0
                                                          NNitrosodiphenylamin -1.0
                                                          NNitrosodinbutylamin -1.0
                                                         NNitrosodinbutyiamin -1.0

NNitrosodinpropylami -1.0

NNitrosomorpholine -1.0

NNitrosomorpholine -1.0

NNitrosopiperidine -1.0
                                                          NNitrosopyrrolidine -1.0
                                                       - Naphthalene
- PAH
                                                                                         -1.0
                                                                                         -1.0
                                                          Polychlor. biphenyls
                                                                                            5.00E-02
                                                       - Forychiof: Dipmeny's 5.00-02
- Pentachlorophenol -1.0
- 2,4,6Trichlorophenol -1.0
- 2,4,5Trichlorophenol -1.0
- Arsenic 6.20E-05
- Beryllium 9.10E-07
Transfer coefficient of contaminant from diet to milk product
      (Fi_milk)
                                                          Cadmium
                                                                                            1.00E-03
                                                                                         -1.0
                                                          Chlorobenzene
                                                          Chromium (hex.)
                                                                                            1.00E-05
                                                          Dioxins/Dibenzofuran
                                                                                            4.00E-02
                                                          2-Chlorophenol
p-Dichlorobenzene
Hexachlorobenzene
                                                                                         -1.0
                                                                                         -1.0
                                                                                         -1.0
                                                          Hexachlorocyclohexan -1.0
                                                          Lead 2.60E-04
Mercury 9.70E-06
NNitrosodiethylamine -1.0
                                                          Mercury
                                                          NNitrosodimethylamin ~1.0
                                                          NNitrosodiphenylamin -1.0
                                                          NNitrosodinbutylamin -1.0
                                                          NNitrosodinbutylamin -1.0
NNitrosodinpropylami -1.0
NNitromethyethylamin -1.0
NNitrosomorpholine -1.0
NNitrosopiperidine -1.0
NNitrosopyrrolidine -1.0
                                                          Naphthalene
PAH
                                                                                         -1.0
                                                          PAH
Polychlor. biphenyls 1.0
                                                                                            1.00E-02
                                                          2,4,6Trichlorophenol 4.2
2,4,5Trichlorophenol -1.0
                                                                                            4.20E-05
                                                                                            2.00E-03
                                                          Arsenic
Beryllium
 Transfer coefficient of contaminant
    from diet to egg product
                                                                                            1.00E-03
       (Fi_egg)
                                                           Cadmium
                                                                                             3.50E-04
                                                          Chlorobenzene
                                                                                          -1.0
                                                                                            9.20E-03
                                                           Chromium (hex.)
                                                          Dioxins/Dibenzofuran
                                                                                             4.00E-01
                                                          2-Chlorophenol
p-Dichlorobenzene
Hexachlorobenzene
                                                                                         -1.0
                                                                                          -1.0
                                                                                         -1.0
                                                          Hexachlorocyclohexan -1.0
                                                                                             4.00E-04
2.70E-02
                                                           Lead
                                                           Mercury
                                                          NNitrosodiethylamine -1.0
NNitrosodimethylamin -1.0
                                                           NNitrosodiphenylamin -1.0
                                                           NNitrosodinbutylamin -1.0
                                                           NNitrosodinpropylami -1.0
NNitromethyethylamin -1.0
                                                           NNitrosomorpholine
```

```
NNitrosopiperidine
                                                                       NNitrosopyrrolidine
                                                                       Naphthalene
                                                                                                              -1.0
                                                                       PAH
                                                                                                             -1.0
                                                                       Polychlor, biphenyls
                                                                                                                 5.00E-02
                                                                                                             -1.0
9.00E-05
                                                                       Pentachlorophenol
                                                                    - 2,4,6Trichlorophenol 9.
- 2,4,5Trichlorophenol -1.0
Location (receptor #) of animal's water source
Site-specific water surface area (SA) (m2)
Site-specific water volume (WV) (kg)
Site-specific number of volume changes per year (VC)
Site-specific fraction of rum-off water (ROI)
                                                                                                               1000.0
                                                                                                              2.00E+06
5.0
                                                                                                               -1.0
Wash coefficient fraction of material washed by runoff (WC) -1.0 Site-specific watershed area impacted (WSIA) (m2) -1.0 Site-specific average annual rainfall (RF) (m) -1.0 Site-specific watershed run-off coefficient (ROC) -1.0 *** FISH PRODUCTS ***
                                                                                                                  -1
1.50E+05
3.00E+08
 Location (receptor #) of fish farm/pond/lake/stream
Site-specific water surface area (SA) (m2)
Site-specific water volume (WV) (kg)
Site-specific number of volume changes per year (VC)
                                                                                                               5000.0
Site-specific number of volume changes per year (VC)
Site-specific fraction of run-off water (ROf)
Wash coefficient-fraction of material washed by runoff (WC)
Site-specific watershed area impacted (WSIA) (m2)
Site-specific average annual rainfall (RF) (m)
Site-specific watershed run-off coefficient (ROC)
Bioconcentration factor (BCF)

- Resented

- Resented
- 1.0
                                                                                                                  4.00E+00
                                                                    - Beryllium
                                                                                                                  1.90E+01
                                                                                                                  1.00E+02
                                                                     - Cadmium
                                                                                                               -1.0
                                                                        Chlorobenzene
                                                                                                                  2.00E+00
5.00E+03
                                                                        Chromium (hex.)
Dioxins/Dibenzofuran
                                                                        2-Chlorophenol
                                                                                                               -1.0
                                                                        p-Dichlorobenzene
Hexachlorobenzene
                                                                                                               -1.0
                                                                                                                   8.00E+03
                                                                        Hexachlorocyclohexan -1.0
                                                                                                                   1.55E+02
                                                                         Lead
                                                                         Mercury
                                                                         NNitrosodiethylamine -1.0
                                                                        NNitrosodimethylamin -1.0
NNitrosodiphenylamin -1.0
NNitrosodiphenylamin -1.0
                                                                         NNitrosodinpropylami -1.0
                                                                         NNitromethyethylamin -1.0
NNitrosomorpholine -1.0
                                                                         MNitrosopiperidine
NNitrosopyrrolidine
Naphthalene
                                                                                                               -1.0
                                                                                                                -1.0
                                                                                                                   1.55E+03
1.55E+03
                                                                         PAH
                                                                         Polychlor. biphenyls
Pentachlorophenol
                                                                                                                   1.00E+05
                                                                         Pentachlorophenol -1.0
2,4,6Trichlorophenol 5.00E+02
2,4,5Trichlorophenol -1.0
  *** DERMAL ABSORPTION PATHWAY ***
Surface area of exposed skin (SA) (cm2)
Soil loading on skin (SL)
                                                                                                                4656.0
                                                                                                                0.50
                                                                     - Arsenic
- Beryllium
                                                                                                                    1.00E-03
  Fraction absorbed across skin (ABS)
                                                                                                                    1 00E-03
                                                                          Cachium
                                                                                                                    2.00E-03
                                                                          Chlorobenzene
                                                                                                                    1.00E-01
                                                                          Chromium (hex.)
Dioxins/Dibenzofuran
                                                                                                                   1.00E-02
2.00E-02
                                                                          2-Chlorophenol
                                                                                                                    1.00E-01
                                                                          p-Dichlorobenzene
Hexachlorobenzene
                                                                                                                    1.00E-01
                                                                                                                     1.00E-01
                                                                          Hexachlorocyclohexan
                                                                                                                     1.00E-03
                                                                                                                     1.00E-02
                                                                          Mercury
NNitrosodiethylamine
                                                                                                                     1.00E-01
                                                                          NNitrosodimethylamin
NNitrosodiphenylamin
NNitrosodinbutylamin
                                                                                                                     1.00E-01
                                                                                                                     1.00E-01
                                                                                                                     1.00E-01
                                                                          NNitrosodinpropylami
                                                                                                                     1.00E-01
                                                                          NNitromethyethylamin
NNitrosomorpholine
                                                                                                                     1.00E-01
                                                                                                                     1.00E-01
                                                                           MNitrosopiperidine
                                                                                                                     1.00E-01
                                                                          NNitrosopyrrolidine
Naphthalene
                                                                                                                     1.00E-01
                                                                                                                     3.00E-02
                                                                                                                     3.00E-02
                                                                          Polychlor. biphenyls
Fentachlorophenol
                                                                                                                     1.50E-01
                                                                                                                     1.00E-01
                                                                           2,4,6Trichlorophenol
                                                                                                                     1.00E-01
                                                                           2,4,5Trichlorophenol
                                                                                                                     1.00E-01
             *** SOIL INGESTION PATHWAY ***
   Lifetime average soil ingestion rate per day (Is) (mg/d)
Gastrointestinal absorption factor - Arsenic
(GI) - Beryllium
                                                                                                                  110.0
                                                                                                                     1.00E+00
1.00E+00
                                                                           Cadmium
                                                                                                                     1.00E+00
                                                                                                                     1.00E+00
                                                                           Chlorobenzene
                                                                        - Chromium (hex.)
- Dioxins/Dibenzofuran
                                                                                                                     1.00E+00
                                                                        - 2-Chlorophenol
- p-Dichlorobenzene
- Hexachlorobenzene
                                                                                                                     1.00E+00
1.00E+00
                                                                                                                      1.00E+00
                                                                                                                      1.00E+00
                                                                         - Hexachlorocyclohexan
```

- Lead

1.00E+00

```
1.00E+00
1.00E+00
                                                                                                     Mercury
                                                                                                     NNitrosodiethylamine
                                                                                                     NNitrosodimethylamin
                                                                                                                                                                 1.00E+00
                                                                                                     NNitrosodiphenylamin
                                                                                                                                                                1 00E+00
                                                                                                     NNitrosodinbutylamin
                                                                                                                                                                 1.00E+00
                                                                                                     NNitrosodinpropylami
                                                                                                                                                                 1.00E+00
                                                                                                     NNitromethyethylamin
NNitrosomorpholine
                                                                                                                                                                1.00E+00
1.00E+00
                                                                                                     NNitrosopiperidine
                                                                                                                                                                 1.00E+00
                                                                                                     NNitrosopyrrolidine
Naphthalene
                                                                                                                                                                1.00E+00
1.00E+00
                                                                                                     PAR
                                                                                                                                                                 1.00E+00
                                                                                                     Polychlor. biphenyls
Pentachlorophenol
                                                                                                                                                                1.00E+00
1.00E+00
                                                                                                     2,4,6Trichlorophenol
2,4,5Trichlorophenol
                                                                                                                                                                 1.00E+00
                                                                                                                                                                 1.00E+00
Bioavailability factors (BIO)
                                                                                                     Beryllium
                                                                                                                                                            1.0
                                                                                                      Cadmium
                                                                                                                                                            1.0
                                                                                                      Chlorobenzene
                                                                                                     Chromium (hex.)
Dioxins/Dibenzofuran
                                                                                                                                                                 4 30E-01
                                                                                                     2-Chlorophenol
                                                                                                      p-Dichlorobenzene
Hexachlorobenzene
                                                                                                                                                            1.0
                                                                                                     Hexachlorocyclohexan
                                                                                                      Lead.
                                                                                                      Mercury
                                                                                                      NNitrosodiethylamine
                                                                                                      NNitrosodimethylamin 1.0
                                                                                                      NNitrosodiphenylamin
NNitrosodiphenylamin
                                                                                                      NNitrosodinpropylami
                                                                                                      NNitromethyethylamin 1.0
NNitrosomorpholine 1.0
                                                                                                      NNitrosopiperidine
                                                                                                                                                            1.0
                                                                                                      NNitrosopyrrolidine
Naphthalene
                                                                                                                                                            1.0
                                                                                                      PAR
                                                                                                                                                                'n
                                                                                                      Polychlor. biphenyls 1.0
                                                                                                      Pentachlorophenol
                                                                                                     2,4,6Trichlorophenol 1.0
2,4,5Trichlorophenol 1.0
*** WATER INGESTION PATHWAY ***

Lifetime average water ingestion rate per day (Iw) (1/d)

*** FOOD INGESTION - PLANT PRODUCTS PATHWAY ***

Site-specific fraction of root vegetable homegrown (L_Ieafy)
Site-specific fraction of leafy veget homegrown (L_leafy)
Site-specific fraction of vine veget homegrown (L_vine)
Daily consumption rate of root vegetable (IF_Ir) (kg/d)
Daily consumption rate of leafy veget (IF leafy) (kg/d)
Daily consumption rate of vine veget (IF vine) (kg/d)

*** FOOD INGESTION - ANIMAL PRODUCTS PATHWAY ***

Site-specific fraction of milk from cows
Site-specific fraction of milk from goats
Site-specific fraction of meat from pigs
Site-specific fraction of meat from pigs
Site-specific fraction of meat from poultry
Site-specific fraction of meat from poultry
Site-specific fraction of meat from poultry
Site-specific fraction of gegs locally produced
Site-specific fraction of fish locally produced
Site-specific fraction of fish locally produced
Site-specific fraction of fish locally produced
Daily consumption rate of meat (IF_Ib) (kg/d)
Daily consumption rate of fish (IF_If) (kg/d)
Daily consumption rate of fish (IF_If) (kg/d)

*** MOTHER'S MILK PATHWAY ***

Beginning of exposure period for mother (d)
Find of exposure period for mother (d)
               *** WATER INGESTION PATHWAY ***
                                                                                                                                                            2.0
                                                                                                                                                            0.150
0.150
                                                                                                                                                             0.050
                                                                                                                                                             0.010
                                                                                                                                                             0.250
                                                                                                                                                             0.00
                                                                                                                                                             0.00
                                                                                                                                                             0.00
                                                                                                                                                             0.50
                                                                                                                                                             0.00
                                                                                                                                                             0.50
                                                                                                                                                             0.00
                                                                                                                                                             0.00
                                                                                                                                                             0.05
                                                                                                                                                             0.023
  Beginning of exposure period for mother (d)
End of exposure period for mother (d)
Daily breast-milk ingestion rate (DERm) (kg/d)
Frequency of exposure (F) (d)
Period of exposure (YR) (yr)
Infant average body weight (ABS) (kg)
Fraction of contaminant partitioned to mother's
                                                                                                                                                              9490.0
                                                                                                                                                              365.0
                                                                                                                                                              1.00
  Fraction of contaminant partitioned to mother's fat (f1)
Percent fat of mother's milk (f3)
Percent mother's weight that is fat (f2)
Contaminant half-life in mother - Arsenic
                                                                                                                                                              0.90
                                                                                                                                                              0.040
                                                                                                                                                              0.330
                                                                                                   - Arsenic
- Beryllium
- Cadmium
                                                                                                                                                               -1.0
                                                                                                                                                               -1.0
                                                                                                                                                              -ī.ŏ
                                                                                                       Chlorobenzene
                                                                                                                                                              -1.0
                                                                                                        Chromium (hex.) -1.0
Dioxins/Dibenzofuran 2117.00
                                                                                                        2-Chlorophenol
                                                                                                                                                             -1.0
                                                                                                       p-Dichlorobenzene
Hexachlorobenzene
                                                                                                        Hexachlorocyclohexan -1.0
                                                                                                        Lead
                                                                                                                                                               -1.0
                                                                                                       Mercury
                                                                                                       NNitrosodiethylamine -1.0
NNitrosodimethylamin -1.0
                                                                                                        NNitrosodiphenylamin
                                                                                                        NNitrosodinbutylamin -1.0
                                                                                                       NNitrosodinpropylami -1.0
NNitromethyethylamin -1.0
NNitrosomorpholine -1.0
```

-ī.o

NNitrosopiperidine

```
NNitrosopyrrolidine -1.0
Naphthalene -1.0
PAH 1460.0
Polychlor. biphenyls 1460.0
Pentachlorophenol -1.0
2,4,5Trichlorophenol -1.0
2,4,5Trichlorophenol -1.0
```

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, TSP \* OUTPUT OF AMI/SECAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 55

### \*\*\* FREDICTED FEAK 1-HOUR CONCENTRATIONS (ug/m3) FROM ALL SOURCES \*\*\*

RECEPTOR	ACETA	ACROL	As	BENZE	Be	Cq	Cr	Cu	OEDE	ECN
1 2	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.311E-02 9.722E-03	0.000E+00	1.470E-02	4.823E-04	1.467E-04	1.130E-03	0.000E+00	7.196E+00
3	0.000E+00	0.000E+00	9.722E-03 9.902E-03	0.000E+00 0.000E+00	1.097E-02 1.119E-02	3.573E-04 3.671E-04	1.092E-04 1.113E-04	8.396E-04 8.552E-04	0.000E+00 0.000E+00	4.589E+00 4.516E+00
4	0.000E+00	0.000E+00	1.667E-02	0.000E+00	1.892E-02	5.836Z-04	1.875E-04	1.437E-03	0.000E+00	8,406E+00
ş	0.000E+00	0.000E+00	1.626E-02	0.000E+00	1.830E-02	5.889E-04	1.814E-04	1.402E-03	0.000E+00	8.085E+00
6 7	0.000E+00	0.000E+00	1.572E-02	0.000E+00	1.784E-02	5.959E-04	1.769E-04	1.356E-03	0.000E+00	7.626E+00
á	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.218E-02 1.195E-02	0.000E+00 0.000E+00	1.391E-02 1.349E-02	4.638E-04 4.296E-04	1.378E-04 1.342E-04	1.053E-03 1.032E-03	0.000E+00 0.000E+00	4.229E+00
ğ	0.000E+00	0.0002+00	1.243E-02	0.000E+00	1.411E-02	4.582E-04	1.400E-04	1.074E-03	0.000E+00	4.339E+00 4.446E+00
10	0.000E+00	0.000E+00	1.922E-02	0.000E+00	2 1442-02	6.730E-04	2-144E-04	1.657E-03	0.000E+00	1.444E+01
11	0.000E+00	0.000E+00	1.085E-02	0.000E+00	1.227E-02	3.803E-04	1.218E-04	9.354E-04	0.000E+00	7.768E+00
12 13	0.000E+00 0.000E+00	0.000E+00	2.502E-02	0.000E+00	2.850E-02	8.757E-04	2.819E-04	2.158E-03	0.000E+00	2.622E+01
14	0.000E+00	0.000E+00 0.000E+00	4.991E-02 5.137E-02	0.000E+00 0.000E+00	5.687E-02 5.862E-02	2.301E-03 2.597E-03	5.678E-04 5.870E-04	4.305E-03 4.431E-03	0.000E+00 0.000E+00	1.466E+01 1.427E+01
- 15	0.000E+00	0.000E+00	5.193E-02	0.000E+00	5.931E-02	2.692E-03	5.942E-04	4.480E-03	0.000E+00	1.283E+01
16	0.000E+00	0.000E+00	5.266E-02	0.000E+00	6.021E-02	2.537E-03	6.011E-04 2.017E-04	4.542E-03	0.000E+00	1.611E+01
17	0.000E+00	0.000E+00	1.799E-02	0.000E+00	2.029E-02	6.298E-04	2.017E-04	1.551E-03	0.000E+00	1.468E+01
18 19	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.404E-02 1.584E-02	0.000E+00 0.000E+00	1.591E-02 1.792E-02	4.916E-04 5.546E-04	1.578E-04 1.779E-04	1.211E-03 1.366E-03	0.000E+00 0.000E+00	1.529E+01
20	0.000E+00	0.000E+00	1.630E-02	0.000E+00	1.844E-02	5.704E-04	1.830E-04	1.405E-03	0.000E+00	1.481E+01 1.899E+01
21	3.000E+00	0.000E+00	4.210E-02	0.000E+00	4.476E-02	1.477E-03	4.590E-04	3.625E-03	0.000E+00	3.376E+01
22	0.000E+00	0.000E+00	3.907E-02	0.000E+00	4.174E-02	1.370E-03	4.269E-04	3.364E-03	0.000E+00	3.397E+01
23 24	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.472E-02 5.676E-02	0.000E+00	4.896E-02	1.567E-03 1.988E-03	4.943E-04	3.853E-03	0.000E+00	3.660E+01
25	0.000E+00	0.000E+00	5.944E-02	0.000E+00 0.000E+00	6.328E-02 6.636E-02	2.082E-03	6.329E-04	4.892E-03 5.124E-03	0.000E+00 0.000E+00	3.755E+01 3.761E+01
26	0.000E+00	0.000E+00	5.151E-02	0.000E+00	5.865E-02	2.008E-03	6.632E-04 5.822E-04	4.443E-03	0.000E+00	4.048E+01
27	0.000E+00	0.000E+00	3.788E-02	0.000E+00	4.456E-02	1.495E-03	4.352E-04	3.270E-03	0.000E+00	2.453E+01
28 29	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.019E-02	0.000E+00 0.000E+00	4.518E-02	1.407E-03 2.214E-03	4.501E-04	3.466E-03 5.450E-03	0.000E+00	2.567E+01
30	0.000E+00	0.000E+00	6.323E-02 7.169E-02	0.000E+00	7.033E-02 8.051E-02	2.510E-03	7.045E-04 8.024E-04	6.181E-03	0.000E+00 0.000E+00	2.895E+01 3.080E+01
31	0.000E+00	0.000E+00	6.821E-02	0.000E+00	7.702E-02	2.388E-03	7.655E-04	5.882E-03	0.000E+00	3.607E+01
32	0.000E+00	0.000E+00	5.625E-02	0.000E+00	6.378E-02	1.969E-03	6.321E-04	4 949E-03	0.000E+00	4.389E+01
33 34	0.000E+00	0.000E+00	5.257E-02	0.000E+00	6.017E-02	2.096E-03	5.962E-04	4.535E-03	0.000E+00	4.429E+01
35	0.000E+00 0.000E+00	0.000E+00 0.000E+00	5.324E-02 3.703E-02	0.000E+00 0.000E+00	6.073E-02 4.169E-02	1.977E-03 1.296Z-03	6.014E-04 4.148E-04	4.593E-03 3.193E-03	0.000E+00 0.000E+00	4.528E+01 4.364E+01
36	0.000E+00	0.000E+00	3.039E-02	0.000E+00	3.432E-02	1.064E-03	3.409E-04	2.620E-03	0.000E+00	4.184E+01
37	0.000E+00	0.000E+00	3.039E-02 3.266E-02	0.000E+00	3.734E-02	1.143E-03	3.686E-04	2.817E-03	0.000E+00	3.997E+01
38	0.000E+00	0.000E+00	1.687E-02	0.000E+00	1.903E-02	5 906E-04	1.892E-04	1.455E-03	0.000E+00	3.986E+01
39 40	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.820E-02 1.977E-02	0.000E+00 0.000E+00	2.052E-02 2.226E-02	6.371E-04 6.923E-04	2.041E-04 2.215E-04	1.569E-03 1.705E-03	0.000E+00 0.000E+00	4.475E+01
41	0.000E+00	0.000E+00	2.541E-02	0.000E+00	2.859E-02	6.325E-03	2.846E-04	2.191E-03	0.000E+00	4.465E+01 3.741E+01
42	0.000E+00	0.000E+00	2.658E-02	0.000E+00	2.949E-02	1.871E-03	2.955E-04	2.191E-03 2.291E-03	0.000E+00	2.004E+01
43	0.000E+00	0.000E+00	1.576E-02	0.000E+00	1.560E-02	1.388E-03	1.581E-04	1.334E-03	0.000E+00	2.094E+01
44 45	0.000E+00 0.000E+00	0.000E+00	1.390E-02	0.000E+00	1.121E-02	3.145E-03	1.128E-04	1.180E-03	0.000E+00 0.000E+00	2.178E+01
46	0.000E+00	0.000E+00 0.000E+00	1.683E-02	0.000E+00 0.000E+00	1.406E-02 1.317E-02	6.000E-04 5.949E-04	1.416E-04 1.336E-04	1.428E-03 1.413E-03	0.000E+00	2.066E+01 1.927E+01
47	0.000E+00	0.000E+00	1.667E-02 2.227E-02	0.000E+00	1.476E-02	1.464E-03	1.770E-04	1.910E-03	0.000E+00	1.619E+01
48	0.000E+00	0.000E+00	2.076E-02	0.000E+00	1.950E-02	9.680E-04	1.964E-04	1.756E-03	00+2000.0	1.309E+01
49 50	0.0002+00	0.000E+00	2.091E-02	0.000E+00	1.570E-02	1.388E-03 1.948E-03	1.637E-04	1.769E-03	0.000E+00	1.078E+01
51	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.750E-02 1.673E-02	0.000E+00 0.000E+00	1.861E-02 1.839E-02	2.810E-03	1.924E-04 1.874E-04	1.517E-03 1.451E-03	0.000E+00 0.000E+00	9.421E+00 9.681E+00
52	0.000E+00	0.000E+00	1.406E-02	0.000E+00	1.553E-02	1.598E-03	1.580E-04	1.218E-03	0.000E+00	9.715E+00
53	0.000E+00	0.000E+00	1.267E-02	0.000E+00	1.218E-02	6.150E-04	1.230E-04	1.073E-03	0.000E+00	1.017E+01
54	0.000E+00	0.0002+00	1.179E-02	0.000E+00	1.281E-02	2.066E-03	1.299E-04	1.017E-03	0.000E+00	1.036E+01
55 56	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.407E-02 1.624E-02	0.000E+00 0.000E+00	1.574E-02 1.810E-02	1.9942-03	1.589E-04 1.821E-04	1.220E-03 1.407E-03	0.000E+00 0.000E+00	8.870E+00 8.151E+00
56 57	0.000E+00	0.000E+00	1.762E-02	0.000E+00	1.998E-02	1.913E-03 7.160E-04	1.983E-04	1.522E-03	0.000E+00	7.381E+00
58	0.000E+00	0.000E+00	1.881E-02 2.066E-02	0.000E+00	2.150E-02	7.112E-04	2.123E-04	1.624E-03	0.000E+00	7.228E+00
59	0.000E+00	0.000E+00	2.066E-02	0.000E+00	2.372E-02	2.118E-03	2.337E-04	1.786E-03	0.000E+00	7.080E+00
60 61	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.411E-02 4.416E-02	0.000E+00 0.000E+00	2.778E-02 4.891E-02	9.355E-04 1.874E-03	2.741E-04 4.934E-04	2.085E-03 3.820E-03	0.000E+00 0.000E+00	6.963E+00 6.812E+00
62	0.000E+00	0.000E+00	4.877E-02	0.000E+00	5.314E-02	2.045E-03	5.398E-04	4.216E-03	0.000E+00	6.681E+00
63	0.000E+00	0.000E+00	3.122E-02	0.000E+00	3.570E-02	1.093E-03	3.525E-04	2.698E-03	0.000E+00	6.566E+00
64	0.000E+00	0.000E+00	2.838E-02	0.000E+00	3.219E-02	2.578E-03	3.191E-04	2.447E-03	0.000E+00	6.195E+00
65 66	0.000E+00 0.000E+00	0.000E+00	2.688E-02 2.530E-02	0.000E+00	2.353E-02 2.775E-02	1.391E-03 1.250E-03	2.651E-04 2.800E-04	2.324E-03 2.185E-03	0.000E+00 0.000E+00	6.123E+00 6.048E+00
66 67	0.000E+00	0.000E+00 0.000E+00	2.530E-02 2.174E-02	0.000E+00 0.000E+00	2.7/3E-02 2.336E-02	1.225E-03	2.378E-04	1.872E-03	0.000E+00	5.983E+00
68	0.000E+00	0.000E+00	2.009E-02	0.000E+00	2.107E-02	3.486E-03	2.177E-04	1.729E-03	0.000E+00	6 223E+00
69	0.300E+00	0.000E+00	3.001E-02	0.000E+00	3.150E-02	1.530E-03	3.192E-04	2.596E-03	0.000E+00	6.953E+00
70 71	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.405E-02	0.000E+00 0.000E+00	3./345-02	1.356E-03 2.035E-03	3.793E-04 5.371E-04	2.934E-03 4.330E-03	0.000E+00	7.957E+00 8.086E+00
71 72	0.000E+00	0.000E+00	5.007E-02 2.585E-02	0.000E+00	5.139E-02 2.898E-02	1.038E-03	2.902E-04	2.229E-03	0.000E+00	8.199E+00
73 74	0.000E+00	0.000E+00	1.760E-02	0.000E+00	1.947E-02	2.134E-03	1.959E-04	1.517E-03	0.000E+00	8.231E+00
74	0.000E+00	0.000E+00	2.182E-02	0.000E+00	2.458E-02	9.119E-04	2.454E-04	1.885E-03	0.000E+00	8.229E+00
75 76	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.730E-02 1.782E-02	0.000E+00 0.000E+00	1.939E-02 1.985E-02	2.039E-03 1.052E-03	1.952E-04 1.986E-04	1.493E-03 1.536E-03	0.000E+00 0.000E+00	9.217E+00 9.818E+00
/6	U.4002700	J. 000E700	1./042-02	J. JUUE700	1.7032-02	1.0346-03	1.7005-04	4.1365-03	3.0005700	7.0105700

77	0.000E+00	0.000E+00	1.958E-02	0.000E+00	2.194E-02	9.497E-04	2.189E-04	1.688E-03	0.000E+00	1.056E+01
78	0.000E+00	0.000E+00	1.916E-02	0.000E+00	2.172E-02	2.0442-03	2.154E-04	1.652E-03		1.063E+01
79	0.000E+00	0.000E+00	2.143E-02	0.000E+00	2.435E-02	2.311E-03	2.412E-04	1.848E-03		1.138E+01
80	0.000E+00	0.000E+00	2.218E-02	0.000E+00	2.509E-02	1.318E-03	2.491E-04	1.913E-03	0.000E+00	1.239E+01
81	0.000E+00	0.000E+00	2.074E-02	0.000E+00	2.313E-02	1.178E-03	2.314E-04	1.788E-03		1.357E+01
82	0.000E+00	0.000 <b>E+0</b> 0	2.000E-02	0.000E+00	2.191E-02	7.008E-04	2.212E-04	1.723E-03	0.000E+00	1.505E+01
83	0.000E+00	0.0002+00	2.228E-02	0.000E+00	2.434E-02	7.809E-04	2.461E-04	1.920E-03	0.000E+00 0.000E+00	1.700E+01
84	0.000E+00	0.000E+00	2.307E-02	0.000E+00	2.521E-02	8.085E-04	2.549E-04	1.988E-03 2.742E-03	0.000E+00	2.001E+01 2.545E+01
85	0.000E+00	0.000E+00	3.182E-02	0.000E+00	3.473E-02	1.115E-03	3.513E-04 7.393E-04	5.797E-03	0.000E+00	4.141E+01
86	0.000E+00	0.000E+00	6.731E-02 6.043E-02	0.000E+00 0.000E+00	7.265E-02 6.605E-02	2.359E-03 2.117E-03	6.677E-04	5.206E-03	0.000E+00	3.892E+01
87 88	0.000E+00 0.000E+00	0.000E+00 0.000E+00	5.781E-02	0.000E+00	6.403E-02	2.025E-03	6.428E-04	4.982E-03	0.000E+00	4.017E+01
89	0.000E+00	0.000E+00	5.555E-02	0.000E+00	6.198E-02	1.945E-03	6.198E-04	4.789E-03	0.000E+00	3.082E+01
90	0.000E+00	0.000E+00	4.929E-02	0.000E+00	5.504E-02	1.726E-03	5.501E-04	4.249E-03	0.000E+00	3.201E+01
91	0.000E+00	0.000E+00	1.726E-02	0.000E+00	1.933E-02	6.228E-04	1.931E-04	1.491E-03	0.000E+00	5.940E+00
92	0.000E+00	0.000E+00	1.787E-02	0.000E+00	2.008E-02	6.770E-04	2.005E-04	1.545E-03	0.000E+00	5.686E+00
93	0.000E+00	0.000E+00	1.714E-02	0.000E+00	1.922E-02	6.983E-04	1.926E-04	1.482E-03	0.000E+00	5.466E+00
94	0.000E+00	0.000E+00	1.750E-02	0.000E+00	2.004E-02	8.918E-04	1.978E-04	1.511E-03	0.000E+00	5.385E+00
95	0.000E+00	0.000E+00	1.861E-02	0.000E+00	2.135E-02	8.681E-04	2.107E-04	1.608E-03	0.000E+00	5.415E+00
96	0.000E+00	0.000E+00	1.944E-02	0.000E+00	2.157E-02	6.819E-04	2.163E-04	1.676E-03	0.000E+00	5.441E+00
97	0.000E+00	0.000E+00	2.294E-02	0.000E+00	2.578E-02	8.048E-04	2.568E-04	1.978E-03 2.278E-03	0.000E+00 0.000E+00	5.477E+00 5.520E+00
98	0.000E+00	0.000E+00	2.643E-02	0.000E+00	2.914E-02	9.260E-04	2.932E-04	1.909E-03	0.000E+00	5.560E+00
99	0.000E+00	0.000E+00	2.210E-02	0.000E+00	2.518E-02 2.659E-02	7.946E-04 8.406E-04	2.492E-04 2.666E-04	2.065E-03	0.000E+00	5.599E+00
100	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.396E-02 2.185E-02	0.000E+00 0.000E+00	2.468E-02	1.453E-03	2.453E-04	1.884E-03	0.000E+00	5.646E+00
101 102	0.000E+00	0.000E+00	2.450E-02	0.000E+00	2.787E-02	8.574E-04	2.759E-04	2.117E-03	0.000E+00	5.712E+00
103	0.000E+00	0.000E+00	1.768E-02	0.000E+00	1.975E-02	6.514E-04	1.976E-04	1.528E-03	0.000E+00	5.890E+00
104	0.000E+00	0.000E+00	1.680E-02	0.000E+00	1.873E-02	6.989E-04	1.882E-04	1.453E-03	0.000E+00	5.653E+00
105	0.000E+00	0.000E+00	1.741E-02	0.000E+00	1.991E-02	7.992E-04	1.966E-04	1.503E-03	0.000E+00	5.488E+00
106	0.000E+00	0.000E+00	1.894E-02	0.000E+00	2.171E-02	1.353E-03	2.142E-04	1.636E-03	0.000 <b>E</b> +00	5.523E+00
107	0.000E+00	0.000E+00	2.152E-02	0.000E+00	2.389E-02	1.126E-03	2.395E-04	1.855E-03	0.000E+00	5.555E+00
108	0.000E+00	0.000E+00	2.397E-02	0.000E+00	2.686E-02	9.465E-04	2.580E-04	2.068E-03	0.000E+00	5.564E+00
109	0.000E+00	0.000E+00	2.539E-02	0.000E+00	2.875E-02	1.032E-03	2.853E-04	2.191E-03	0.000E+00	5.628E+00
110	0.000E+00	0.000E+00	2.465E-02	0.000E+00	2.811E-02	1.297E-03	2.780E-04	2.129E-03	0.000E+00	5.668E+00
111	0.000E+00	0.000E+00	2.075E-02	0.000E+00	2.371E-02	1.104E-03	2.346E-04	1.795E-03	0.000E+00 0.000E+00	5.709E+00 5.753E+00
112	0.000E+00	0.000E+00	2.361E-02	0.000E+00	2.673E-02	1.400E-03	2.654E-04	2.037E-03 2.326E-03	0.000E+00	5.794E+00
113	0.000E+00	0.000E+00	2.696E-02	0.000E+00	3.076E-02	1.609E-03 9.834E-04	3.041E-04 3.175E-04	2.428E-03	0.000E+00	5.871E+00
114	0.000E+00	0.000E+00	2.810E-02 1.628E-02	0.000E+00 0.000E+00	3.217E-02 1.799E-02	9.261E-04	1.814E-04	1.409E-03	0.000E+00	5.861E+00
115 116	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.720E-02	0.000E+00	1.96ZE-02	1.244E-03	1.940E-04	1.485E-03	0.000E+00	5.607E+00
117	0.000E+00	0.000E+00	1.915E-02	0.000E+00	2.192E-02	1.422E-03	2.165E-04	1.654E-03	0.000E+00	5.638E+00
118	0.000E+00	0.000E+00	2.294E-02	0.000E+00	2.539E-02	1.971E-03	2.550E-04	1.977E-03	0.000E+00	5.674E+00
119	0.000E+00	0.000E+00	2.663E-02	0.000E+00	2.980E-02	2.626E-03	2.976E-04	2.297E-03	0.000E+00	5.712E+00
120	0.000E+00	0.000E+00	2.788E-02	0.000E+00	3.155E-02	1.826E-03	3.132E-04	2.406E-03	0.000E+00	5.74 <i>5</i> E+00
121	0.000E+00	0.000E+00	2.6Z4E-02	0.000E+00	2.989E-02	1.364E-03	2.958E-04	2.266E-03	0.000E+00	5.785E+00
122	0.000E+00	0.000E+00	2.309E-02	0.000E+00	2.641E-02	1.993E-03	2.611E-04	1.998E-03	0.000E+00	5.830E+00
123	0.000E+00	0.000E+00	2.518E-02	0.000E+00	2.855E-02	1.935E-03	2.831E-04	2.172E-03	0.000E+00	5.871E+00
124	0.000E+00	0.000E+00	2.798E-02	0.000E+00	3.193E-02	2.070E-03	3.156E-04	2.413E-03	0.000E+00	5.942E+00
125	0.000E+00	0.000E+00	2.911E-02	0.000E+00	3.335E-02	1.019E-03	3.290E-04	2.515E-03	0.000E+00	5.992E+00
126	0.000E+00	0.000E+00	3.021E-02	0.000E+00	3.473E-02	1.057E-03	3.420E-04	2.610E-03 1.459E-03	0.000E+00 0.000E+00	6.040E+00 5.806E+00
127	0.000E+00	0.000E+00	1.691E-02	0.000E+00	1.921E-02	1.686E-03	1.903E-04 2.174E-04	1.664E-03	0.000E+00	5.767E+00
128 129	0.000E+00	0.000E+00	1.927E-02	0.000E+00 0.000E+00	2.198E-02	1.935E-03 2.617E-03	2.635E-04	2.050E-03	0.000E+00	5.810E+00
130	0.000E+00	0.000E+00 0.000E+00	2.379E-02 2.622E-02	0.000E+00	2.614E-02 2.904E-02	1.066E-03	2.915E-04	2.264E-03	0.000E+00	5.862E+00
131	0.000E+00 0.000E+00	0.000E+00	2.369E-02	0.000E+00	2.642E-02	1.222E-03	2.651E-04	2.046E-03	0.000E+00	5.885E+00
132	0.000E+00	0.000E+00	2.875E-02	0.000E+00	3.272E-02	2.521E-03	3.246E-04	2.483E-03	0.000E+00	5.941E+00
133	0.000E+00	0.000E+00	2.498E-02	0.000E+00	2.856E-02	2.167E-03	2.823E-04	2.161E-03	0.000E+00	5.957E+00
134	0.000E+00	0.000E+00	2.567E-02	0.000E+00	2.907E-02	1.052E-03	2.885E-04	2.213E-03	0.000E+00	6.022E+00
135	0.000E+00	0.000E+00	2.781E-02	0.000E+00	3.171E-02	9.733E-04	3.136E-04	2.399E-03	0.000E+00	6.079E+00
136	0.000E+00	0.000E+00	4.028E-02	0.000E+00	4.285E-02	1.767E-03	4.421E-04	3.484E-03	0.000E+00	6.123E+00
137	0.000E+00	0.000E+00	3.341E-02	0.000E+00	3.682E-02	1.523E-03	3.669E-04	2.892E-03	0.000E+00	6.171E+00
138	0.000E+00	0.000E+00	3.468E-02	0.000E+00	3.702E-02	1.552E-03	3.815E-04	3.001E-03	0.000E+00	6.222E+00
139	0.000E+00	0.000E+00	1.9862-02	0.000E+00	2.196E-02	3.251E-03	2.179E-04	1.710E-03	0.000E+00	5.950E+00 5.963E+00
140	0.000E+00	0.000E+00	2.391E-02	0.000E+00	2.589E-02	1.195E-03	2.630E-04	2.060E-03 2.344E-03	0.000E+00 0.000E+00	5.995E+00
141	0.000E+00	0.000E+00	2.716E-02	0.000E+00	2.967E-02	1.200E-03 1.669E-03	3.000E-04 3.386E-04	2.893E-03	0.000E+00	6.017E+00
142 143	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.351E-02 3.062E-02	0.000E+00 0.000E+00	2.952E-02 2.773E-02	1.541E-03	3.133E-04	2.646E-03	0.000E+00	6.076E+00
144	0.000E+00	0.000E+00	2.559E-02	0.000E+00	2.917E-02	9.913E-04	2.893E-04	2.213E-03	0.000E+00	6.128E+00
145	0.000E+00	0.000E+00	2 727E-02	0.000E+00	3.090E-02	1.183E-03	3.065E-04	2.352E+03	0.800E+00	6.169E+00
146	0.000E+00	0.000E+00	2.727E-02 2.871E-02 3.386E-02	0.000E+00	3.273E-02	1.036E-03	3.237E-04	2.476E-03	0.000E+00	6.223E+00
147	0.000E+00	0.000E+00	3.386E-02	0.000E+00	3.273E-02 3.766E-02	1.589E-03	3.711E-04	2.930E-03	0.000E+00	6.271E+00 6.321E+00
148	0.000E+00	0.000E+00	4.413E-02	0.000E+00	4.714E-02	1.905E-03	4.834E-04	3.815E-03	0.000E+00	6.321E+00
149	0.000E+00	0.000E+00	4.488E-02	0.000E+00	4.864E-02	1.890E-03	4.956E-04	3.880E-03	0.000E+00	6.372E+00 6.412E+00
150	0.000E+00	0.000E+00	4.323E-02	0.000E+00	4.723E-02	1.819E-03	4.790E-04	3.738E-03	0.000E+00	6.41ZE+00 6.380E+00
151	0.000E+00	0.000E+00	2.966E-02	0.000E+00	3.381E-02	1.038E-03	3.344E-04	2.559E-03	0.000E+00	6.425E+00
152	0.000E+00	0.000E+00	4.308E-02	0.000E+00	4.529E-02	1.931E-03	4.706E-04	3.726E-03	0.000E+00 0.000E+00	6.480E+00
153	0.000E+00	0.000E+00	4.814E-02	0.000E+00	5.147E-02	2.035E-03		4.160E-03 2.591E-03	0.000E+00	6.545E+00
154	0.000E+00	0.000E+00	3.003E-02	0.000E+00	3.455E-02			3.971E-03	0.000E+00	6.571E+00
153 154 155 156	0.000E+00 0.000E+00		4.594E-02 4.319E-02	0.000E+00 0.000E+00	5.051E-02 4.764E-02	1.833E-03		3.737E-03	0.000E+00	6.653E+00
157	0.000E+00		2.030E-02		2.289E-02	7.919E-04	2 28AF-04	1.754E-03	0.000E+00	8.243E+00
157 158	0.000E+00		1.847E-02		1.950E-02	8.927E-04	2.022E-04	1.595E-03	0.000E+00	7.236E+00
159	0.000E+00				1.239E-02		1.241E-04	9.598E-04	0.000E+00	6.415E+00
160	0.000E+00			0.000E+00	1.587E-02			1.274E-03	0.000E+00	5.781E+00
161	0.000E+00				1 647E-02	5.415E-04	1.639E-04	1.259E-03	0.000E+00	5.261E+00
162	0.000E+00			0.000E+00	1.656E-02	5.242E-04	1.640E-04	1.256E-03	0.000E+00	4.856E+00
163	0.000E+00				1.824E-02	5.921E-04	1.802E-04	1.376E-03	0.000E+00	4.902E+00
164	0.000E+00	0.000E+00	1.666E-02	0.000E+00	1.821E-02	5.838E-04	1.84IE-04	1.435E-03	0.000E+00	5.001E+00
165	0.000E+00	0.000E+00	2.499E-02	0.000E+00	2.808E-02				0.000E+00	5.083E+00
166	0.000E+00			0.000E+00	3.034E-02	9.401E-04	3.004E-04	2.301E-03	0.000E+00	5.171E+00
167	0.000E+00		2.244E-02	0.000E+00		7.864E-04	2.529E-04	1.936E-03	0.000E+00	5.261E+00 7.254E+00
168	0.000E+00						1.620E-04	1.253E-03	0.000E+00 0.000E+00	6.378E+00
169	0.000E+00									5.686E+00
170	0.000E+00									5.182E+00
171	0.000E+00						4 1.915E-04			5.084E+00
172 173	0.000E+00					6.172E-0				5.168E+00
2,0										

174	0.000E+00	0.000E+00	2.486E-02	0.000E+00	2.776E-02	8.713E-04				5.259E+00
175	0.000E+00	0.000E+00	2.391E-02	0.000E+00	2.702E-02	8.500E-04		2.064E-03		5.358E+00
176	0.000E+00	0.000E+00	2.506E-02	0.000E+00	2.865E-02	8.779E-04	2.829E-04	2.162E-03		5.462E+00
177	0.000E+00	0.000E+00	2.665E-02	0.000E+00	3.066E-02	9.428E-04	3.019E-04	2.301E-03		5.565E+00
178	0.000E+00	0.000E+00	1.732E-02	0.000E+00	1.954E-02	2.568E-03	1.949E-04 1.470E-04	1.497E-03 1.142E-03		7.179E+00 6.264E+00
179	0.000E+00	0.000E+00	1.325E-02	0.000E+00	1.461E-02 2.013E-02	6.340E-04 6.709E-04	2.006E-04	1.542E-03		5.594E+00
180 181	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.785E-02 1.747E-02	0.000E+00 0.000E+00	2.002E-02	6.254E-04	1.976E-04	1.509E-03		5.286E+00
182	0.000E+00	0.000E+00	2.247E-02	0.000E+00	2.528E-02	1.283E-03	2.517E-04	1.938E-03		5.364E+00
183	0.000E+00	0.000E+00	2.416E-02	0.000E+00	2.674E-02	8.467E-04	2.685E-04	2.082E-03	0.000E+00	5.465E+00
184	0.000E+00	0.000E+00	2.164E-02	0.000E+00	2.448E-02	7.574E-04	2.431E-04	1.866E-03		5.592E+00
185	0.000E+00	0.000E+00	2.822E-02	0.000E+00	3.238E-02	1.485E-03	3.191E-04	2.435E-03		5.686E+00
186	0.000E+00	0.000E+00	2.752E-02	0.000E+00	3.171E-02	9.750E-04	3.120E-04	2.377E-03		5.803E+00
187	0.000E+00	0.000E+00	2.586E-02	0.000E+00	2.969E-02	9.063E-04	2.926E-04	2.231E-03		5.917E+00
188	0.000E+00	0.000E+00	2.274E-02	0.000E+00	2.507E-02	1.182E-03	2.523E-04 1.633E-04	1.960E-03 1.274E-03		7.063E+00 6.147E+00
189	0.000E+00	0.000E+00	1.473E-02	0.000E+00 0.000E+00	1.619E-02 1.978E-02	1.061E-03 1.060E-03	1.955E-04	1.495E-03	0.000E+00	5.546E+00
190	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.732E-02 2.446E-02	0.000E+00	2.728E-02	1.882E-03	2.729E-04	2.109E-03	0.000E+00	5.626E+00
191 192	0.000E+00	0.000E+00	2.542E-02	0.000E+00	2.898E-02	1.342E-03	2.867E-04	2.196E-03	0.000E+00	5.726E+00
193	0.000E+00	0.000E+00	2.598E-02	0.000E+00	2.955E-02	2.001E-03	2.926E-04	2.241E-03	0.000E+00	5.831E+00
194	0.000E+00	0.000E+00	2.995E-02	0.000E+00	3.442E-02	1.048E-03	3.389E-04	2.587E-03	0.000E+00	5.977E+00
195	0.000E+00	0.000E+00	2.729E-02	0.000E+00	3.148E-02	1.603E-03	3.096E-04	2.358E-03	0.000E+00	6.081E+00
196	0.000E+00	0.000E+00	2.701E-02	0.000E+00	3.110E-02	1.708E-03	3.067E-04	2.331E-03	0.000E+00	6.232E+00
197	0.000E+00	0.000E+00	2.394E-02	0.000E+00	2.755E-02	8.566E-04	2.713E-04	2.068E-03 2.391E-03	0.000E+00 0.000E+00	6.349E+00 6.946E+00
198	0.000E+00	0.000E+00	2.775E-02	0.000E+00	3.015E-02	1.427E-03 3.277E-03	3.057E-04 1.860E-04	1.432E-03	0.000E+00	6.045E+00
199	0.000E+00	0.000E+00	1.560E-02	0.000E+00 0.000E+00	1.869E-02 2.838E-02	1.189E-03	2.874E-04	2.249E-03	0.000E+00	5.972E+00
200 201	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.606E-02 2.739E-02	0.000E+00	3.112E-02	9.588E-04	3.083E-04	2.363E-03	0.000E+00	6.198E+00
202	0.000E+00	0.000E+00	4.267E-02	0.000E+00	4.692E-02	1.800E-03	4.749E-04	3.690E-03	0.000E+00	6.456E+00
203	0.000E+00	0.000E+00	2.625E-02	0.000E+03	3.026E-02	1.002E-03	2.983E-04	2.269E-03	0.000E+00	6.608E+00
204	0.000E+00	0.000E+00	2.152E-02	0.000E+00	2.471E-02	7.874E-04	2.438E-04	1.861E-03	0.000E+00	6.716E+00
205	0.000E+00	0.000E+00	1.965E-02	0.000E+00	2.253E-02	7.263E-04	2.221E-04	1.696E-03	0.000E+00	6.903E+00
206	0.000E+00	0.000E+00	1.695E-02	0.000E+00	1.908E-02	7.034E-04	1.903E-04	1.466E-03 1.357E-03	0.000E+00 0.000E+00	7.596E+00 8.492E+00
207	0.000E+00	0.000E+00	1.564E-02	0.000E+00	1.749E-02	7.695E-04 3.309E-04	1.753E-04 9.127E-05	7.117E-04	0.000E+00	7.568E+00
208	0.000E+00	0.000E+00	8.260E-03	0.000E+00 0.000E+00	9.029E-03 1.170E-02	3.828E-04	1.168E-04	8.989E-04	0.000E+00	7.600E+00
209	0.000E+00	0.000E+00	1.042E-02 1.159E-02	0.000E+00	1.295E-02	4.079E-04	1.294E-04	9.994E-04	0.000E+00	7.601E+00
210 211	0.000E+00 0.000E+00	0.000E+00 0.000E+00	9.806E-03	0.000E+00	1.117E-02	4.105E-04	1.112E-04	8.492E-04	0.000E+00	7: 676E+00
212	0.000E+00	0.000E+00	1.302E-02	0.000E+00	1.468E-02	5.136Z-04	1.466E-04	1.125E-03	0.000E+00	7.526E+00
213	0.000E+00	0.000E+00	1.509E-02	0.000E+00	1.696E-02	5.501E-04	1.692E-04	1.302E-03	0.000E+00	6.965E+00
214	0.000E+00	0.000E+00	1.198E-02	0.000E+00	1.336E-02	4.549E-04	1.337E-04	1.033E-03	0.000E+00	6.350E+00
215	0.000E+00	0.000E+00	1.528E-02	0.000E+00	1.728E-02	5.504E-04	1.717E-04	1.318E-03	0.000E+00	6.274E+00
216	0.000E+00	0.000E+00	1.457E-02	0.000E+00	1.651E-02	5.554E-04	1.638E-04	1.257E-03	0.000E+00	6.156E+00
217	0.000E+00	0.000E+00	1.545E-02	0.000E+00	1.749E-02	5.673E-04	1.737E-04	1.332E-03	0.000E+00 0.000E+00	6.233E+00 5.935E+00
218	0.000E+00	0.000E+00	1.377E-02	0.000E+00	1.559E-02	5.614E-04	1.549E-04 2.014E-04	1.188E-03 1.557E-03	0.000E+00	5.328E+00
219	0.000E+00	0.000E+00	1.806E-02	0.0002+00	2.006E-02 1.196E-02	6.717E-04 3.779E-04	1.199E-04	9.281E-04	0.000E+00	4.985E+00
220 221	0.000E+00	0.000E+00 0.000E+00	1.077E-02 6.431E-03	0.000E+00 0.000E+00	7.134E-03	2.301E-04	7.161E-05	5.549E-04	0.000E+00	4.515E+00
222	0.000E+00 0.000E+00	0.000E+00	8.667E-03	0.000E+00	9.800E-03	3.327E-04	9.759E-05	7.489E-04	0.000E+00	4.095E+00
223	0.000E+00	0.000E+00	1.013E-02	0.000E+00	1.156E-02	3.821E-04	1.145E-04	8.761E-04	0.000E+00	3.882E+00
224	0.000E+00	0.000E+00	1.097E-02	0.000E+00	1.250E-02	4.181E-04	1.240E-04	9.480E-04	0.000E+00	3.956E+00
224 225	0.000E+00	0.000E+00	1.114E-02	0.000E+00	1.263E-02	4.089E-04	1.254E-04	9.624E-04	0.000E+00	4.035E+00
226	0.00000	0.000E+00	1.260E-02	0.000E+00	1.409E-02	4.466E-04	1.408E-04	1.087E-03 1.028E-03	0.000E+00 0.000E+00	4.110E+00 7.821E+00
227 228	0.000E+00	0.000E+00	1.193E-02	0.000E+00	1.331E-02	4.210E-04 3.620E-04	1.331E-04 1.146E-04	8.901E-04	0.000E+00	8.249E+00
228	0.000E+00	0.000E+00	1.033E-02	0.000E+00 0.000E+00	1.139E-02 1.164E-02	3.799E-04	1.161E-04	8.939E-04	0.000E+00	8.356E+00
229 230	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.036E-02 1.240E-02	0.000E+00	1.389E-02	4.354E-04	1.386E-04	1.069E-03	0.000E+00	8.638E+00
231	0.000E+00	0.000E+00	1.076E-02	0.000E+00	1.221E-02	4.530E-04	1.218E-04	9.317E-04	0.000E+00	8.150E+00
232	0.000E+00	0.000E+00	1.436E-02	0.000E+00	1.617E-02	5.492E-04	1.614E-04	1.240E-03	0.000E+00	7.705E+00
233	0.000E+00	0.000E+00	1.572E-02	0.000E+00	1.768E-02	5.593E-04	1.761E-04	1.355E-03	0.000E+00	7.220E+00
234	0.000E+00	0.000E+00	1.379E-02	0.000E+00	1.553E-02	5.157E-04	1.546E-04	1.189E-03	0.000E+00	6.936E+00
235	0.000E+00	0.000E+00	1.540E-02	0.000E+00	1.746E-02	5.493E-04	1.732E-04	1.328E-03	0.000E+00 0.000E+00	6.886E+00 6.823E+00
236	0.000E+00	0.000E+00	1.614E-02	0.000E+00	1.828E-02	5.886E-04	1.816E-04 1.611E-04	1.392E-03 1.235E-03	0.000E+00	6.468E+00
237	0.000E+00	0.000E+00	1.432E-02	0.000E+00	1.622E-02 2.004E-02	5.881E-04 6.667E-04	2.017E-04	1.564E-03	0.000E+00	5.796E+00
238	0.000E+00	0.000E+00	1.815E-02	0.000E+00 0.000E+00	1.184E-02	3.734E-04		9.184E-04	0.000E+00	5.050E+00
239 240	0.000E+00 0.000E+00	0.000E+00	1.0662-02 9.459E-03	0.000E+00	1.066E-02	3.452E-04		8.168E-04	0.000E+00	4.623E+00
241	0.000E+00	0.000E+00	9.934E-03	0.000E+00	1.129E-02	3.591E-04	1.119E-04	8.581E-04	0.000E+00	4.173E+00
242	0.000E+00	0.000E+00	1.173E-02	0.000E+00	1.336E-02	4.403E-04	1.325E-04	1.014E-03	0.000E+00	4.113E+00
243	0.000E+00	0.000E+00	1.150E-02	0.000E+00	1.299E-02	4.151E-04		9.930E-04	0.000E+00 0.000E+00	4.212E+00 4.310E+00
244	0.000E+00	0.000E+00	1.444E-02	0.000E+00	1.616E-02	5.095E-04		1.245E-03 1.390E-03	0.000E+00	4.373E+00
245	0.000E+00	0.000E+00	1.609E-02	0.000E+00	1.830E-02			8.651E-04	0.000E+00	8.690E+00
246	0.000E+00	0.000E+00	1.002E-02	0.000E+00 0.000E+00	1.128E-02 1.372E-02	4.339E-04	1.369E-04	1.055E-03	0.000E+00	8.702E+00
247	0.000E+00	0.000E+00 0.000E+00	1.224E-02 1.235E-02		1.374E-02	4.327E-04	1.376E-04	1.064E-03	0.000E+00	9.010E+00
248 249	0.000E+00 0.000E+00				1.136E-02		1.134E-04	8.725E-04	0.000E+00	9.444E+00
250	0.000E+00		1 328E-02	0.000E+00	1.492E-02	4.656E-04		1.145E-03	0.000E+00	9.408E+00
251 252 253 254 255	0.000E+00		1.164E-02	0.000E+00	1.492E-02 1.313E-02	4.863E-04	1.313E-04	1.006E-03	0.000E+00	9.054E+00
252	0.000E+00		1.612E-02	0.000E+00	1.815E-02 1.737E-02	5.915E-04	1.809E-04	1.391E-03	0.000E+00 0.000E+00	8.124E+00 7.893E+00
253	0.000E+00				1.737E-02	5.425E-04	1.730E-04	1.332E-03 1.444E-03	0.000E+00	7.717E+00
254	0.000E+00		1.674E-02	0.000E+00	1.901E-02		1.884E-04 1.864E-04	1.429E-03	0.000E+00	7.699E+00
255	0.000E+00				1.874E-02 1.686E-02			1.284E-03	0.000E+00	6.883E+00
236	0.000E+00							1.537E-03	0.000E+00	6.172E+00
257 258	0.000E+00						1.200E-04	9.287E-04	0.000E+00	5.338E+00
258 259	0.000E+00						1.216E-04	9.332E-04	0.000E+00	4.687E+00
260	0.000E+00		1.205E-02	0.000E+00	1.370E-02	4.430E-04	4 1.359E-04	1.041E-03	0.000E+00	4.304E+00
261	0.000E+00			0.000E+00	1.330E-02	4.546E-04		1.004E-03	0.000E+00	4.410E+00
262	0.000E+00	0.000E+00	1.679E-02	0.000E+00	1.881E-02			1.448E-03	0.000E+00	4.5262+00 4.6062+00
263	0.000E+00	0.000E+00				6.441E-0	4 1.994E-04 4 2.338E-04	1.527E-03 1.789E-03	0.000E+00 0.000E+00	4.711E+00
264	0.000E+00		2.072E-02	0.000E+00			4 2.338E-04 4 1.439E-04	1.112E-03		8.684E+00
265	0.000E+00		1.290E-02	0.000E+00						9.416E+00
266	0.000E+00			2 0.000E+00 2 0.000E+00			4 1.284E-04			9.580E+00
267 263	0.000E+0							1.186E-03	0.000E+00	9.932E+00
269	0.000E+0					Z 4.016E-0	4 1.273E-04	9.880E-04		1.020E+01
270	0.000E+0						4 1.594E-04	1.227E-03	0.000E+00	1.029E+01

271	0.000E+00	0.000E+00	1.268E-02	0.000E+00	1.424E-02	5.109E-04	1.426E-04	1.096E-03	0.000E+00	9.495E+00
272 273	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.829E-02 1.818E-02	0.000E+00 0.000E+00	2.066E-02	6.487E-04	2.0542-04	1.577E-03	0.000E+00	8.851E+00
274	0.000E+00	0.000E+00	1.602E-02	0.000E+00	2.052E-02 1.817E-02	6.367E-04 1.325E-03	2.039E-04 1.802E-04	1.568E-03 1.382E-03	0.000E+00 0.000E+00	8.829E+00 8.586E+00
275 276	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.546E-02	0.000E+00	1.748E-02	5.635E-04	1.738E-04	1.334E-03	0.000E+00	7.449E+00
277	0.0002+00	0.000E+00	1.708E-02 1.112E-02	0.000E+00 0.000E+00	1.837E-02 1.247E-02	6.095E-04 3.964E-04	1.872E-04 1.244E-04	1.471E-03 9.592E-04	0.000E+00 0.000E+00	6.293E+00
278 279	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.310E-02	0.000E+00	1.495E-02	4.728E-04	1.479E-04	1.132E-03	0.000E+00	5.359E+00 4.644E+00
280	0.000E+00	0.000E+00	1.359E-02 1.997E-02	0.000E+00 0.000E+00	1.557E-02 2.239E-02	5.2222-04 7.0062-04	1.540E-04 2.234E-04	1.175E-03 1.722E-03	0.000E+00	4.643E+00
281 282	0.000E+00 0.000E+00	0.000E+00	1.928E-02	0.000E+00	2.198E-02	6.985E-04	2.175E-04	1.665E-03	0.000E+00 0.000E+00	4.781E+00 4.916E+00
283	0.000E+00	0.000E+00 0.000E+00	2.307E-02 2.042E-02	0.000E+00 0.000E+00	2.645E-02 2.326E-02	8.301E-04 7.306E-04	2.610E-04	1.993E-03	0.000E+00	5.035E+00
284 285	0.000E+00	0.000E+00	1.309E-02	0.000E+00	1.477E-02	4.953E-04	2.302E-04 1.472E-04	1.762E-03 1.131E-03	0.000E+00 0.000E+00	5.195E+00 8.808E+00
286	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.402E-02 1.432E-02	0.000E+00 0.000E+00	1.574E-02 1.598E-02	5.097E-04	1.571E-04	1.210E-03	0.000E+00	9.540E+00
287	0.000E+00	0.000E+00	1.327E-02	0.000E+00	1.471E-02	5.324E-04 4.657E-04	1.599E-04 1.476Z-04	1.235E-03 1.144E-03	0.000E+00 0.000E+00	9.952E+00 1.051E+01
288 289	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.383E-02 1.449E-02	0.000E+00 0.000E+00	1.556E-02	4.848E-04	1.549E-04	1.193E-03	0.000E+00	1.127E+01
290	0.000E+00	0.000E+00	1.519E-02	0.000E+00	1.619E-02 1.716E-02	5.076E-04 5.319E-04	1.618E-04 1.705E-04	1.250E-03 1.310E-03	0.000E+00 0.000E+00	1.191E+01 1.147E+01
291 292	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.469E-02	0.000E+00	1.649E-02	5.499E-04	1.647E-04	1.267E-03	0.000E+00	9.772E+00
293	0.000E+00	0.000E+00	3.146E-02 1.890E-02	0.000E+00 0.000E+00	3.312E-02 2.121E-02	1.371E-03 6.618E-04	3.438E-04 2.114E-04	2.721E-03 1.630E-03	0.000E+00 0.000E+00	1.020E+01
294 295	0.000E+00 0.000E+00	0.000E+00	2.390E-02	0.000E+00	2.750E-02	8.702E-04	2.709E-04	2.065E-03	0.000E+00	9.681E+00 5.426E+00
296	0.000E+00	0.000E+00 0.000E+00	2.334E-02 1.976E-02	0.000E+00 0.000E+00	2.678E-02 2.256E-02	8.328E-04 7.655E-04	2.641E-04 2.236E-04	2.016E-03	0.000E+00	5.645E+00
297 298	0.000E+00	0.000E+00	1.037E-02	0.000E+00	1.188E-02	5.887E-04	1.179E-04	1.710E-03 8.98ZE-04	0.000E+00 0.000E+00	5.768E+00 8.265E+00
299	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.193E-02 1.338E-02	0.000E+00 0.000E+00	1.357E-02 1.512E-02	5.668 <b>E-04</b> 6.47 <b>2E-04</b>	1.349E-04 1.506E-04	1.031E-03	0.000E+00	9.784E+00
300 301	0.000E+00	0.000E+00	1.493E-02	0.000E+00	1.677E-02	5.358E-04	1.672E-04	1.155E-03 1.287E-03	0.000E+00 0.000E+00	1.035E+01 1.102E+01
302	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.611E-02 1.537E-02	0.000E+00 0.000E+00	1.804E-02 1.711E-02	5.659E-04	1.801E-04 1.713E-04	1.389E-03	0.000E+00	1.1725+01
303	0.000E+00	0.900E+00	1.669E-02	0.000E+00	1.876E-02	5.384E-04 5.842E-04	1.868E-04	1.325E-03 1.439E-03	0.000E+00 0.000E+00	1.296E+01 1.400E+01
304 305	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.615E-02 1.888E-02	0.000E+00	1.826E-02	5.653E-04	1.813E-04	1.393E-03	0.000E+00	1.203E+01
.306	0.000E+00	0.000E+00	2.222E-02	0.000E+00 0.000E+00	2.124E-02 2.551E-02	7.811E-04 8.171E-04	2.116E-04 2.517E-04	1.628E-03 1.921E-03	0.000E+00 0.000E+00	1.200E+01
307 308	0.000E+00 0.000E+00	0.000E+00	1.892E-02	0.000E+00	2.165E-02	7.078E-04	2.137E-04	1.633E-03	0.000E+00	6.167E+00 6.403E+00
309	0.000E+00	0.000E+00 0.000E+00	1.714E-02 7.619E-03	0.000E+00 0.000E+00	1.946E-02 8.322E-03	6.489E-04 7.418E-04	1.933E-04 8.416E-05	1.482E-03	0.000E+00	6.459E+00^
310	0.000E+00	0.000E+00	8.507E-03	0.000E+00	9.846E-03	6.189E-04	9.732E-05	6.564E-04 7.380E-04	0.000E+00 0.000E+00	8.925E+00 9.581E+00
311 312	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.029E-02 1.163E-02	0.000E+00 0.000E+00	1.183E-02	8.218E-04	1.173E-04	8.918E-04	0.000E+00	9.921E+00
313	0.000E+00	0.000E+00	1.307E-02	0.000E+00	1.325E-02 1.476E-02	5.860E-04 4.913E-04	1.318E-04 1.470E-04	1.006E-03 1.128E-03	0.000E+00 0.000E+00	1.140E+01 1.238E+01
314 315	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.547E-02 1.830E-02	0.000E+00 0.000E+00	1.741E-02	5.471E-04	1.734E-04	1.334E-03	0.000E+00	1.368E+01
316	0.000E+00	0.000E+00	1.836E-02	0.000E+00	2.059E-02 2.055E-02	6.408E-04 6.430E-04	2.050E-04 2.052E-04	1.578E-03 1.583E-03	0.000E+00 0.000E+00	1.563E+01
317 318	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.950E-02	0.000E+00	2.153E-02	6.83 <u>1E</u> -04	2.165E-04	1.680E-03	0.000E+00	1.676E+01 1.499E+01
319	0.000E+00	0.000E+00	1.712E-02 1.488E-02	0.000E+00 0.000E+00	1.937E-02 1.672E-02	6.448E-04 6.360E-04	1.927E-04 1.676E-04	1.480E-03 1.289E-03	0.000E+00	7.241E+00
320 321	0.000E+00 0.000E+00	0.000E+00	1.085E-02	0.000E+00	1.217E-02	4.92IE-04	1.224E-04	9.400E-04	0.000E+00 0.000E+00	7.275E+00 7.543E+00
322	0.000E+00	0.000E+00 0.000E+00	1.574E-02 1.603E-02	0.000E+00 0.000E+00	1.664E-02 1.690E-02	8.663E-04 8.668E-04	1.712E-04 1.742E-04	1.355E-03 1.380E-03	0.000E+00	8.507E+00
323 324	0.000E+00 0.000E+00	0.000E+00	1.632E-02	0.000E+00	1.715E-02	7.722E-04	1.771E-04	1.405E-03	0.000E+00 0.000E+00	9.401E+00 1.036E+01
325	0.000E+00	0.000E+00 0.000E+00	1.658E-02 1.677E-02	0.000E+00 0.000E+00	1.737E-02 1.751E-02	6.219E-04 5.884E-04	1.796E-04 1.814E-04	1.427E-03	0.000E+00	1.087E+01
326 327	0.000E+00	0.000E+00	1.684E-02	0.000E+00	1.802E-02	5.909E-04	1.818E-04	1.443E-03 1.449E-03	0.000E+00 0.000E+00	1.242E+01 1.443E+01
328	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.919E-02 2.203E-02	0.000E+00 0.000E+00	2.136E-02 2.448E-02	6.722E-04 7.714E-04	2.139E-04	1.655E-03	0.000E+00	1.657E+01
329 330	0.000E+00	0.000E+00	2.487E-02	0.000E+00	2.749E-02	8.712E-04	2.453E-04 2.762E-04	1.898E-03 2.143E-03	0.000E+00 0.000E+00	2.240E+01 2.231E+01
331	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.211E-02 1.191E-02	0.000E+00 0.000E+00	1.363E-02 1.334E-02	5.075E-04 4.182E-04	1.357E-04	1.045E-03	0.000E+00	8.794E+00
332	0.000E+00	0.000E+00	1.206E-02	0.000E+00	1.350E-02	4.279E-04	1.332E-04 1.348E-04	1.027E-03 1.040E-03	0.000E+00 0.000E+00	8.920E+00 8.468E+00
333 334	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.041E-02 4.216E-02	0.000E+00 0.000E+00	4.511E-02	1.416E-03	4.510E-04	3.484E-03	0.000E+00	8.282E+00
335	0.000E+00	0.000E+00	4.400E-02	0.000E+00	4.715E-02 4.932E-02	1.476E-03 1.541E-03	4.709E-04 4.920E-04	3.635E-03 3.794E-03	0.000E+00 0.000E+00	8.885E+00 9.650E+00
336 337	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.590E-02	0.000E+00	5.154E-02	1.607E-03	5.137E-04	3.958E-03	0.000E+00	1.072E+01
338	0.000E+00	0.000E+00	4.776E-02 4.933E-02	0.000E+00 0.000E+00	5.370E-02 5.551E-02	1.672E-03 1.727E-03	5.349E-04 5.526E-04	4.118E-03 4.253E-03	0.000E+00 0.000E+00	1.236E+01 1.481E+01
339 340	0.000E+00 0.000E+00	0.000E+00 0.000E+00	5.012E-02	0.000E+00	5.638E-02	1 745F-03	5 613E+04	4.321E-03 4.222E-03	0.000E+00	1.748E+01
341	0.000E+00	0.000E+00	4.898E-02 1.571E-02	0.000E+00 0.000E+00	5.488E-02 1.308E-02	1.715E-03 1.570E-03	5.475E-04 1.321E-04	4.222E-03 1.329E-03	0.000E+00 0.000E+00	2.313E+01
342 343	0.000E+00 0.000E+00	0.000E+00	1.339E-02	0.000E+00	1.505E-02	4.8162-04	1.500E-04	1.156E-03	0.000E+00	1.086E+01 1.127E+01
344	0.000E+00	0.000E+00 0.000E+00	1.358E-02 1.255E-02	0.000E+00 0.000E+00	1.533E-02 1.420E-02	5.175E-04 5.107E-04	1.527E-04 1.416E-04	1.173E-03	0.000E+00	1.106E+01
345	0.000E+00	0.000E+00	1.091E-02	0.000E+00	1.239E-02	4.680E-04 1.780E-03	1.2362-04	1.0862-03 9.455E-04	0.000E+00 0.000E+00	1.021E+01 9.505E+00
346 347	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.712E-02 4.753E-02	0.000E+00 0.000E+00	5.290E-02	1.780E-03	5.285E-04	4.063E-03	0.000E+00	8.474E+00
348	0.000E+00	0.000E+00	4.786E-02	0.000E+00	5.333E-02 5.366E-02	1.809E-03 1.720E-03	5.330E-04 5.356E-04	4.098E-03 4.126E-03	0.000E+00 0.000E+00	8.832E+00 8.582E+00
349 350	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.819E-02 4.870E-02	0.000E+00	5.402E-02	1.720E-03	5.391E-04	4.155E-03 4.199E-03	0.000E+00	8.059E+00
351	0.000E+00	0.000E+00	4.963E-02	0.000E+00 0.000E+00	5.458E-02 5.563E-02	1.7262-03 1.747E-03	5.447E-04 5.550E-04	4.199E-03 4.279E-03	0.000E+00 0.000E+00	1.127E+01 1.294E+01
352 353	0.000E+00 0.000E+00	0.000E+00 0.000E+00	5.126E-02 5.360E-02	0.000E+00	5.563E-02 5.747E-02	1.797E-03	5.732E-04	4.420E-03	0.000E+00	1.469E+01
354	0.000E+00	0.000E+00	1.500E-02	0.000E+00 0.000E+00	5.996E-02 1.324E-02	1.877E-03 5.366E-04	5.987E-04 1.333E-04	4.621E-03 1.268E-03	0.000E+00 0.000E+00	2.185E+01
355 356	0.000E+00 0.000E+00	0.000E+00	1.098E-02	0.000E+00	1.099E-02	3.96ZE-04	1.098E-04 9.849E-05	9.291E-04 7.727E-04	0.000E+00	1.568E+01 1.386E+01
357	0.000E+00	0.000E+00 0.000E+00	9.124E-03 8.008E-03	0.000E+00 0.000E+00	9.893E-03 9.129E-03	3.96ZE-04 3.593E-04 3.32ZE-04	9.849E-05 9.077E-05	7.727E-04 6.932E-04	0.000E+00	1.269E+01
358	0.000E+00	0.000 <b>E+</b> 00	7.468E-03	0.000E+00	8.5Z0E-03	3.097E-04	8.468E-05	6.464E-04	0.000E+00 0.000E+00	1.152E+01 1.059E+01
359 360	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.652E-02 3.641E-02	0.000E+00 0.000E+00	4.190E-02 4.187E-02	1.408E-03 1.419E-03	4.1425-04	3.151E-03	0.000E+00	8.613E+00
361	0.000E+00	0.000E+00	3.618E-02	0.000E+00	4.172E-02	1.6942-03	4.136E-04 4.142E-04	3.141E-03 3.122E-03	0.000E+00 0.000E+00	9.352E+00 1.013E+01
362 363	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.577E-02	0.000E+00	4.172E-02 4.137E-02	1.733E-03	4.107E-04	3.087E-03	0.000E+00	1.098E+01
364	0.000E+00	0.000E+00	3.514E-02 3.437E-02	0.000E+00 0.000E+00	4.077E-02 4.003E-02	1.772E-03 1.805E-03	4.047E-04 3.973E-04	3.0325-03 2.967E-03	0.000E+00 0.000E+00	1.198E+01 1.332E+01
365 366	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.362E-02 3.275E-02	0.000E+00	3.930E-02	1.788E-03	3.895E-04	2.902E-03	0.000E+00	1.526E+01
367	0.000E+00	0.000E+00	3.332E-02	0.000E+00 0.000E+00	3.845E-02 3.921E-02	1.599E-03 1.268E-03	3.789E-04 3.825E-04	2.827E-03 2.877E-03	0.000E+00 0.000E+00	1.819E+01 2.401E+01
									U. JUULTUU	2UIETUI

368	0.000E+00	G.000E+00	2.839E-02	0.000E+00	3.236E-02	9.937E-04	3.200E-04	2.449E-03	0.000E+00	3.271E+01
369	0.000E+00	0.000E+00	1.597E-02	0.000E+00	1.727E-02	5.597E-04	1.754E-04	1.375E-03	0.000E+00	2.132E+01
370	0.000E+00	0.000E+00	1.247E-02	0.000E+00	1.020E-02	4.450E-04	1.011E-04	1.056E-03	0.000E+00	1.713E+01
371	0.000E+00	0.000E+00	1.078E-02	0.000E+00	1.189E-02	3.777E-04	1.196E-04	9.291E-04	0.000E+00	1.473E+01
372	0.000E+00					3.510E-04	1.108E-04	8.632E-04	0.000E+00	1.315E+01
		0.000E+00	1.002E-02	0.000E+00	1.099E-02					
373	0.000E+00	0.000E+00	9.045E-03	0.000E+00	1.009E-02	3.258E-04	1.007E-04	7.794E-04	0.000E+00	1.195E+01
374	0.000E+00	0.000E+00	8.275E-03	0.000E+00	9.259E-03	2.987E-04	9.253E-05	7.138 <b>E-04</b>	0.000E+00	1.093E+01
375	0.000E+00	0.000E+00	1.060E-02	0.000E+00	1.198E-02	4.190E-04	1.193E-04	9.153E-04	0.000E+00	6.777E+00
<b>3</b> 76	0.000E+00	0.000E+00	1.138E-02	0.000E+00	1.290E-02	4.303E-04	1.282E-04	9.829E-04	0.000E+00	6.794E+00
377	0.000E+00	0.000E+00	1.184E-02	0.000E+00	1.3462-02	1.259E-03	1.336E-04	1.024E-03	0.000E+00	6.698E+00
378	0.000E+00	0.000E+00	1.185E-02	0.000E+00	1.349E-02	1.341E-03	1.339E-04	1.025E-03	0.000E+00	7.931E+00
379	0.000E+00			0.000E+00		1.245E-03	1.257E-04	9.604E-04	0.000E+00	
		0.000E+00	1.109E-02		1.264E-02					1.085E+01
380	0.000E+00	0.000E+00	1.070E-02	0.000E+00	1.196E-02	5.2992-04	1.198E-04	9.253E-04	0.000E+00	1.320E+01
381	0.000E+00	0.000E+00	1.458E-02	0.000E+00	1.670E-02	7.110E-04	1.647E-04	1.258E-03	0.000E+00	1.523E+01
382	0.000E+00	0.000E+00	1.673E-02	0.000E+00	1.931E-02	6.047E-04	1.899E-04	1.447E-03	0.000E+00	1.824E+01
383	0.000E+00	0.000E+00	4.413E-02	0.000E+00	5.067E-02	1.544E-03	4.993E-04	3.808E-03	0.000E+00	2.334E+01
384	0.000E+00	0.000E+00	5.353E-02	0.000E+00	6.098E-02	1.877E-03	6.034E-04	4.618E-03	0.000E+00	2.541E+01
385	0.000E+00	0.000E+00	4.626E-02	0.000E+00	5.250E-02	1.622E-03	5.203E-04	3.989E-03	0.000E+00	3.226E+01
386	0.000E+00	0.000E+00	3.287E-02	0.000E+00	3.754E-02	1.150E-03	3.708E-04	2.835E-03	0.000E+00	
						7 7478-04		1 7618-03		3.139E+01
387	0.000E+00	0.000E+00	2.042E-02	0.000E+00	2.324E-02	7.147E-04	2.300E-04	1.761E-03	0.000E+00	3.157E+01
388	0.000E+00	0.000E+00	1.848E-02	0.000E+00	2.067E-02	6.470E-04	2.064E-04	1.593E-03	0.000E+00	2.155E+01
389	0.00GE+00	0.000E+00	1.972E-02	0.000E+00	2.205E-02	6.906E-04	2.202E-04	1.700E-03	0.000E+00	1.711E+01
390	0.000E+00	0.000E+00	9.125E-03	0.000E+00	7.459E-03	3.256E-04	7.628E-05	7.731E-04	0.000E+00	1.465E+01
391	0.000E+00	0.000E+00	8.529E-03	0.000E+00	7.622E-03	3.043E-04	7.550E-05	7.228E-04	0.000E+00	1.274E+01
392	0.000E+00	0.000E+00	8.002E-03	0.000E+00	8.407E-03	2.909E-04	8.340E-05	6.782E-04	0.000E+00	1.1492+01
393	0.000E+00	0.000E+00	7.726E-03	0.000E+00	8.770E-03	2.970E-04	8.717E-05	6.675E-04	0.000E+00	1.084E+01
394	0.000E+00					3.930E-04	1.095E-04	8.386E-04	0.000E+00	
		0.000E+00	9.694E-03	0.000E+00	1.103E-02					8.299E+00
395	0.000E+00	0.000E+00	8.838E-03	0.000E+00	1.007E-02	4.372E-04	9.992E-05	7.651E-04	0.000E+00	8.454E+00
396	0.000E+00	0.000E+00	8.070E-03	0.000E+00	9.088E-03	7.942E-04	9.074E-05	6.975E-04	0.000E+00	9.625E+00
397	0.000E+00	0.000E+00	9.182E-03	0.000E+00	1.037E-02	1.408E-03	1.034E-04	7.944E-04	0.000E+00	1.038E+01
398	0.000E+00	0.000E+00	9.817E-03	0.000E+00	1.121E-02	1.164E-03	1.108E-04	8.475E-04	0.GOGE+00	9.173E+00
399	0.000E+00	0.000E+00	1.442E-02	0.000E+00	1.654E-02	1.019E-03	1.632E-04	1.246E-03	0.000E+00	1.207E+01
400	0.000E+00	0.000E+00	1.279E-02	0.000E+00	1.469E-02	5.981E-04	1.453E-04	1.108E-03	0.000E+00	1.276E+01
					2 2072-02			1 7678-03		
401	0.000E+00	0.000E+00	2.043E-02	0.000E+00	2.297E-02	7.155E-04	2.289E-04	1.762E-03	0.000E+00	1.283E+01
402	0.000E+00	0.000E+00	4.390E-02	0.000E+00	4.958E-02 6.065E-02	1.537E-03	4.928E-04	3.786E-03	0.000E+00	1.192E+01
403	0.000E+00	0.000E+00	5.316E-02	0.000E+00	6.065E-02	2.188E-03	6.019E-04	4.585E-03	0.000E+00	1.202E+01
404	0.000E+00	0.000E+00	4.104E-02	0.000E+00	4.645E-02	1.459E-03	4.612E-04	3.539E-03	0.000E+00	1.737E+01
405	0.000E+00	0.000E+00	2.842E-02	0.000E+00	3.238E-02	9.946E-04	3.202E-04	2.451E-03	0.000E+00	1.853E+01
406	0.000E+00	0.000E+00	1.684E-02	0.000E+00	1.908E-02	5.895E-04	1.893E-04	1.452E-03	0.000E+00	1.776E+01
407	0.000E+00	0.000E+00	1.585E-02	0.000E+00	1.801E-02	5.546E-04	1.783E-04	1.367E-03	0.000E+00	1.720E+01
						5.662E-04	1.809E-04	1.394E-03	0.000E+00	
408	0.000E+00	0.000E+00	1.617E-02	0.000E+00	1.816E-02	3.0025-04				1.701E+01
409	0.000E+00	0.000E+00	1.713E-02	0.000E+00	1.919E-02	5.997E-04	1.914E-04	1.476E-03	0.000E+00	1.446E+01
410	0.000E+00	0.000E+00	7.590E-03	0.000E+00	6.634E-03	2.707E-04	6.775E-05	6.433E-04	0.000E+00	1.271E+01
411	0.000E+00	0.000E+00	7.402E-03	0.000E+00	6.749E-03	2.641E-04	6.887E-05	6.273E-04	0.000E+00	1.167E+01
412	0.000E+00	0.000E+00	7.019E-03	0.000E+00	6.613E-03	2.504E-04	6.601E-05	5.948E-04	0.000E+00	1.050E+01
413	0.000E+00	0.000E+00	1.312E-02	0.000E+00	1.502E-02	1.458E-03	1.485E-04	1.134E-03	0.000E+00	9.642E+00
	0.000E+00		8.640E-03	0.000E+00	9.836E-03	1.317E-03	9.792E-05	7.481E-04	0.000E+00	7.932E+00
414		0.000E+00					7.7725-04		0.000000	
415	0.000E+00	0.000E+00	9.822E-03	0.000E+00	1.038E-02	1.101E-03	1.073E-04	8.508E-04	0.000E+00	6.655E+00
416	0.000E+00	0.000E+00	1.035E-02	0.000E+00	1.183E-02	8.224E-04	1.174E-04	8.96ZE-04	0.000E+00	9.259E+00
417	0.000E+00	0.000E+00	7.875E-03	0.000E+00	8.002E-03	9.093E-04	8.466E-05	6.827E-04	0.000E+00	7.495E+00
418	0.000E+00	0.000E+00	1.187E-02	0.000E+00	1.323E-02	9.349E-04	1.324E-04	1.023E-03	0.000E+00	6.566E+00
419	0.000E+00	0.000E+00	9.039E-03	0.000E+00	9.875E-03	7.668E-04	9.988E-05	7.788E-04	0.000E+00	9.180E+00
420	0.000E+00	0.000E+00	2.169E-02	0.000E+00	2.391E-02	8.714E-04	2.406E-04	1.869E-03	0.000E+00	7.436E+00
421	0.000E+00	0.000E+00	3.331E-02	0.000E+00	3.778E-02	1.204E-03	3.750E-04	2.878E-03	0.000E+00	6.928E+00
122						1.249E-03		3.069E-03		
422 423	0.000E+00	0.000E+00	3.558E-02	0.000E+00	4.002E-02		3.985E-04		0.000E+00	9.765E+00
423	0.000E+00	0.000E+00	3.337E-02	0.000E+00	3.799E-02	1.355E-03	3.776E-04	2.886E-03	0.000E+00	8.290E+00
424	0.000E+00	0.000E+00	3.265E-02	0.000E+00	3.670E-02	1.146E-03	3.657E-04	2.817E-03	0.000E+00	7.449E+00
425	0.000E+00	0.000E+00	4.793E-02	0.000E+00	5.470E-02	1.681E-03	5.407E-04	4.144E-03	0.000E+00	1.004E+01
426	0.000E+00	0.000E+00	4.599E-02	0.000E+00	5.264E-02	1.746E-03	5.208E-04	3.991E-03	0.000E+00	8.729E+00
427	0.000E+00	0.000E+00	4.400E-02	0.000E+00	4.988E-02	1.817E-03	4.955E-04	3.795E-03	0.000E+00	7.742E+00
428	0.000E+00	0.000E+00	5.173E-02	0.000E+00	5.898E-02	2.275E-03	5.877E-04	4.462E-03	0.000E+00	1.005E+01
429	0.000E+00	0.000E+00	4.943E-02	0.000E+00		2.183E-03	5,612E-04	4.263E-03	0.000E+00	8.755E+00
430	0.000E+00	0.000E+00	4.689E-02	0.000E+00	5.628E-02 5.332E-02	2.020E-03	5.315E-04	4.044E-03	0.000E+00	7.929E+00
					3.3325-02					
431	0.000E+00	0.000E+00	3.830E-02	0.000E+00	4.336E-02	1.375E-03	4.306E-04	3.303E-03	0.000E+00	1.110E+01
432	0.000E+00	0.000E+00	3.627E-02	0.000E+00	4.109E-02	1.307E-03	4.079E-04	3.128E-03	0.000E+00	8.533E+00
433	0.000E+00	0.000E+00	3.404E-02	0.000E+00	3.856E-02	1.230E-03	3.828E-04	2.935E-03	0.000E+00	7.705E+00
434	0.000E+00	0.000E+00	2.375E-02	0.000E+00	2.684E-02	8.312E-04	2.666E-04	2.048E-03	0.000E+00	1.422E+01
435	0.000E+00	0.000E+00	1.991E-02	0.000E+00	2.228E-02	6.973E-04	2.224E-04	1.717E-03	0.000E+00	1.126E+01
436	0.000E+00	0.000E+00	1.694E-02	0.000E+00	1.874E-02	5.935E-04	1.882E-04	1.460E-03	0.000E+00	8.968E+00
437			1.599E-02	0.000E+00	1.809E-02	5.596E-04	1.796E-04	1.379E-03	0.000E+00	1.450E+01
	0.000E+00	0.000E+00							0.000E+00	1.171E+01
438	0.000E+00	0.000E+00	1.370E-02	0.000E+00	1.540E-02	4.917E-04	1.535E-04	1.182E-03		
439	0.000E+00	0.000E+00	1.118E-02	0.000E+00	1.245E-02	4.903E-04	1.256E-04	9.646E-04	0.000E+00	1.035E+01
440	0.000E+00	0.000E+00	1.431E-02	0.000E+00	1.620E-02	5.010E-04	1.608E-04	1.234E-03	0.000E+00	1.359E+01
441	0.000E+00	0.000E+00	1.640E-02	0.000E+00	1.861E-02	5.741E-04	1.845E-04	1.415E-03	0.000E+00	1.218E+01
442	0.000E+00	0.000E+00	1.616E-02	0.000E+00	1.831E-02	5.660E-04	1.816E-04	1.394E-03	0.000E+00	1.021E+01
443	0.000E+00	0.000E+00	1.352E-02	0.000E+00	1.532E-02	5.964E-04	1.520E-04	1.166E-03	0.000E+00	1.380E+01
						6.000E-04	1.475E-04	1.131E-03	0.000E+00	1.167E+01
444	0.000E+00	0.000E+00	1.312E-02	0.000E+00	1.48E-02		1.4/35-04	1.1315-03		
445	0.000E+00	0.000E+00	1.121E-02	0.000E+00	1.263E-02	3.940E-04	1.257E-04	9.664E-04	0.000E+00	1.048E+01
446	0.000E+00	0.000E+00	1.175E-02	0.000E+00	1.307E-02	4.116E-04	1.309E-04	1.012E-03	0.000E+00	1.314E+01
447	0.000E+00	0.000E+00	1_205E-02	0.000E+00	1.360E-02	4.227E-04	1.35ZE-04	1.039E-03	0.000E+00	1.151E+01
448	0.000E+00	0.000E+00	1.117E-02	0.000E+00	1.261E-02	4.045E-04	1.255E-04	9.635E-04	0.000E+00	1.035E+01
449	0.000E+00		1.117E-02 1.475E-02	0.000E+00	1.653E-02	5.166E-04	1.649E-04	1.272E-03	0.000E+00	1.281E+01
450	0.000E+00		1.239E-02	0.000E+00	1.393E-02		1.387E-04	1.068E-03	0.000E+00	1.140E+01
451	0.000E+00			0.000E+00	1.154E-02		1.150E-04	1.272E-03 1.068E-03 8.865E-04	0.000E+00	1.045E+01
437	0.VUULTUU	0.000E+00	1.028E-02	0.0005700	1.145-42		4.400-04	J. J.J.	4.4462.40	

0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET. TSP \* OUTPUT OF AMM/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\gqtspace.dut Output File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 64

ECEPTOR	Pb	Ma	Eg	Ni	NAPTH	PAH	PROPL	S•	TOL	XYLEN
1 2	8.597E-03 6.406Z-03	2.296E-02 1.708E-02	0.000E+00 0.000E+00	7.600E-04 5.664E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
3 4	6.530E-03 1.103E-02	1.740E-02 2.936E-02	0.000E+00 0.000E+00	5.773E-04 9.725E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
5	1.067E-02	2.840E-02	0.000E+00	9.408E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
6 7	1.041E-02 8.101E-03	2.770E-02 2.152E-02	0.000E+00 0.000E+00	9.174E-04 7.147E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
8 9	7.874E-03 8.225E-03	2.099E-02 2.189E-02	0.000E+00 0.000E+00	6.960E-04 7.266E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
10	1.255E-02	3.357E-02	0.000E+00	1.111E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
11 12	7.160E-03 1.660E-02	1.908E-02 4.415E-02	0.000E+00 0.000E+00	6.318E-04 1.463E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
13	3.314E-02	8.809E-02	0.000E+00	2.919E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
14 15	3.414E-02 3.454E-02	9.074E-02 9.176E-02	0.000E+00 0.000E+00	3.007E-03 3.041E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
16 17	3.505E-02 1.185E-02	9.310E-02 3.159E-02	0.000E+00 0.000E+00	3.085E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.GG0E+00
18	9.280E-03	2.471E-02	0.000E+00	1.046E-03 8.185E-04	0.0002+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
19 20	1.046E-02 1.076E-02	2.786E-02 2.866E-02	0.000E+00 0.000E+00	9.225E-04 9.491E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
21	2.650E-02	7.189E-02	0.000E+00	2.371E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
22 23	2.468E-02 2.878E-02	6.686E-02 7.741E-02	0.000E+00 0.000E+00	2.206E-03 2.558E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
24 25	3.705E-02 3.884E-02	9.911E-02	0.000E+00	3.279E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
26	3.418E-02	1.039E-01 9.087E-02	0.000E+00 0.000E+00	3.437E-03 3.011E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
27 28	2.578E-02 2.641E-02	6.790E-02 7.049E-02	0.000E+00 0.000E+00	2.254E-03 2.334E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
. 29	4.121E-02	1.103E-01	0.000E+00	3.650E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
30 31	4.707E-02 4.497E-02	1.257E-01 1.199E-01	0.000E+00 0.000E+00	4.160E-03 3.970E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000Z+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
32 33	3.719E-02 3.502E-02	9.899E-02	0.000E+00	3.279E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
34	3.538E-02	9.299E-02 9.402E-02	0.000E+00 0.000E+00	3.082E-03 3.11 <i>5</i> E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
35 36	2.435E-02 2.003E-02	6.496E-02 5.339E-02	0.000E+00 0.000E+00	2.151E-03 1.768E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
37	2.174E-02	5.772E-02	0.000E+00	1.913E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
38 39	1.111E-02 1.199E-02	2.963E-02 3.196E-02	0.000E+00 0.000E+00	9.811E-04 1.058E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
40	1.300E-02	3.468E-02	0.000E+00	1.148E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
41 42	1.670E-02 1.728E-02	4.456E-02 4.628E-02	0.000E+00 0.000E+00	1.475E-03 1.531E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
43 44	9.188E-03 6.497E-03	2.477E-02 1.767E-02	0.000E+00	8.181E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
45	8.256E-03	2.217E-02	0.000E+00 0.000E+00	5.759E-04 7.330E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
46 47	7.759E-03 8.748E-03	2.092E-02 2.673E-02	0.000E+00 0.000E+00	6.911E-04 8.481E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
48	1.145E-02	3.073E-02	0.000E+00	1.018E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
49 50	9.307E-03 1.102E-02	2.529E-02 2.989E-02	0.000E+00 0.000E+00	8.380E-04 9.931E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
51 52	1.080E-02 9.114E-03	2.902E-02 2.445E-02	0.000E+00	9.659E-04	0.000E+00	0.000E+00	0.300E+00	0.000E+00	0.000E+00	0.000E+00
53	7.161E-03	1.9262-02	0.000E+00 0.000E+00	8.128E-04 6.367E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
54 55	7.514E-03 9.208E-03	2.024E-02 2.461E-02	0.000E+00 0.000E+00	6.700E-04 8.193E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
56 57	1.060E-02	2.461E-02 2.836E-02	0.000E+00	9.431E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
58	1.165E-02 1.252E-02	3.102E-02 3.325E-02	0.000E+00 0.000E+00	1.029E-03 1.102E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
59 60	1.380E-02 1.614E-02	3.660E-02 4.278E-02	0.000E+00 0.000E+00	1.216E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
61	2.867E-02	7.678E-02	0.000E+00	1.421E-03 2.550E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
62 63	3.124E-02 2.078E-02	8.404E-02 5.520E-02	0.000E+00 0.000E+00	2.788E-03 1.833E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
64	1.877E-02	4.998E-02	0.000E+00	1.655E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
65	1.434E-02 1.631E-02	4.152E-02 4.385E-02	0.000E+00 0.000E+00	1.366E-03 1.453E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
67 68	1.631E-02 1.375E-02 1.252E-02	3.724E-02	0.000E+00	1.229E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
69	1.855E-02	3.409E-02 4.999E-02	0.000E+00 0.000E+00	1.124E-03 1.651E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
70 71	2.204E-02 3.069E-02 1.695E-02	5.915E-02 8.412E-02 4.527E-02	0.000E+00 0.000E+00	1.651E-03 1.956E-03 2.785E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
72	1.695E-02	4.527E-02	0.000E+00	1.498E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
73 74	1.14ZE-0Z 1.436E-0Z	3.062E-02 3.830E-02	0.000E+00 0.000E+00	1.013E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
75	1.134E-02	3.029E-02 3.110E-02	0.000E+00	1.271E-03 1.004E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
76 77	1.134E-02 1.162E-02 1.283E-02	3.428E-02	0.000E+00 0.000E+00	1.029E-03 1.135E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
78 79	1.267E-02 1.419E-02	3.373E-02 3.777E-02	0.000E+00 0.000E+00	1.117E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
80	1.464E-02	3.901E-02 3.623E-02	0.000E+00	1.117E-03 1.251E-03 1.292E-03 1.199E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
81 82	1.354E-02 1.288E-02	3.623E-02 3.464E-02	0.000E+00 0.000E+00	1.1452-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
83	1.432E-02	3.854E-02	0.000E+00	1.273E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
84 85	1.483E-02 2.044E-02	3.991E-02 5.502E-02	0.000E+00 0.000E+00	1.319E-03 1.818E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
86 87	4.286Z-02 3.885E-02	1.158E-01 1.046E-01	0.000E+00 0.000E+00	3.823E-03 3.455E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
88	3.755E-02	1.007E-01	0.000E+00	3.329E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
89 90	3.629E-02 3.222E-02	9.707E-02 8.615E-02	0.000E+00 0.000E+00	3.212E-03 2.851E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00		0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
l ~	·	U. U. S. S. S. S.	4.0005100	دن-شدين.م	V.UUDFUU	U. 550E7UU	J. 500E-00	0.5005700	0.0002100	U. 5505700

91	1.131E-02	3.021E-02	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00 0.000E+00
92 93	1.174E-02 1.124E-02	3.133E-02 3.002E-02	0.000E+00 0.000E+00	9.962E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
94 95	1.166E-02 1.242E-02	3.096E-02 3.296E-02	0.000E+00 0.000E+00	1.027E-03 1.094E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00		0.000E+00 0.000E+00
96 97	1.264E-02 1.507E-02	3.388E-02 4.022E-02	0.000E+00 0.000E+00	1.121E-03 1.332E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00		G.000E+00 G.000E+00
98 99	1.711E-02	4.592E-02 3.900E-02	0.000E+00		0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00
100	1.467E-02 1.559E-02	4.175E-02	0.000E+00 0.000E+00	1.381E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
101 102	1.441E-02 1.624E-02	3.841E-02 4.321E-02	0.000E+00 0.000E+00	1.272E-03 1.434E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00
103 104	1.156E-02 1.097E-02	3.091E-02 2.934E-02	0.000E+00 0.000E+00	1.026E-03 9.742E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00		0.000E+00 0.000E+00
105 106	1.159E-02 1.263E-02	3.078E-02 3.353E-02	0.000E+00 0.000E+00	1.021E-03 1.113E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
107	1.400E-02	3.751E-02	0.000E+00	1.241E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
108 109	1.571E-02 1.678E-02	4.197E-02 4.468E-02	0.000E+00 0.000E+00	1.390E-03 1.481E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
110 111	1.637E-02 1.381E-02	4.351E-02 3.667E-02	0.000E+00 0.000E+00	1.444E-03 1.219E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
112 113	1.560E-02 1.792E-02	4.156E-02 4.762E-02	0.000E+00 0.000E+00	1.376E-03 1.578E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
114 115	1.873E-02	4.972E-02 2.832E-02	0.000E+00 0.000E+00	1.650E-03 9.405E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
116	1.056E-02 1.143E-02	3.038E-02	0.000E+00	1.008E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
117 118	1.276Z-02 1.489E-02	3.388E-02 3.993E-02	0.000E+00 0.000E+00	1.124E-03 1.321E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000 <del>2+</del> 00 0.000 <del>2+</del> 00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
119 120	1.743E-02 1.841E-02	4.660E-02 4.905E-02	0.000E+00 0.000E+00	1.543E-03 1.626E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
121 122	1.741E-02 1.537E-02	4.630E-02 4.083E-02	0.000E+00 0.000E+00	1.536E-03 1.357E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
123	1.665E-02	4.434E-02	0.000E+00	1.469E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
124 125	1.860E-02 1.941E-02	4.943E-02 5.152E-02	0.000E+00 0.000E+00	1.638E-03 1.710E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
126 127	2.019E-02 1.120E-02	5.355E-02 2.980E-02	0.000E+00 0.000E+00	1.778E-03 9.879E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
128 129	1.281E-02	3.404E-02 4.127E-02	0.000E+00	1.129E-03 1.364E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 ~	0.000E+00
130	1.536E-02 1.703E-02	4.565E-02	0.000E+00 0.000E+00	1.513E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
131 132	1.547E-02 1.907E-02	4.138E-02 5.071E-02	0.000E+00 0.000E+00	1.372E-03 1.683E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
133 134	1.663E-02 1.696E-02	4.416E-02 4.518E-02	0.000E+00 0.000E+00	1.467E-03 1.496E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
135	1.847E-02	4.911E-02	0.000E+00	1.627E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
136 137	2.535E-02 2.140E-02	6.870E-02 5.694E-02	0.000E+00 0.000E+00	2.278E-03 1.890E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
138 139	2.188E-02 1.281E-02	5.924E-02 3.412E-02	0.000E+00 0.000E+00	1.966E-03 1.132E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
140 141	1.526E-02 1.746E-02	4.119E-02 4.698E-02	0.000E+00 0.000E+00	1.360E-03 1.556E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
142	1.828E-02	5.230E-02	0.000E+00 0.000E+00	1.721E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
143 144	1.703E-02 1.699E-02	4.837E-02 4.517E-02	0.000E+00	1.594E-03 1.501E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
145 146	1.803E-02 1.907E-02	4.801E-02 5.069E-02	0.000E+00 0.000E+00	1.590E-03 1.679E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
147 148	2.191E-02 2.773E-02	5.811E-02 7.518E-02	0.000E+00 0.000E+00	1.929E-03 2.491E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
149 150	2.859E-02 2.770E-02	7.714E-02 7.457E-02	0.000E+00 0.000E+00	2.558E-03 2.474E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000 <del>E+0</del> 6	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
151	1.970E-02	5.237E-02	0.000E+00	1.735E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
152 153	2.687E-02 3.042E-02	7.307E-02 8.232E-02	0.000E+00 0.000E+00	2.422E-03 2.728E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
154 155	2.009E-02 2.965E-02	5.326E-02 7.956E-02	0.000E+00	1.766E-03 2.640E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
156	2.795E-02	7.496E-02	0.000E+00	2.489E-03 1.183E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
157 158	1.337E-02 1.156E-02	3.564E-02 3.143E-02	0.000E+00	1.040E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
159 160	7.259E-03 9.374E-03	1.943E-02 2.536E-02	0.000E+00 0.000E+00	6.428E-04 8.369E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
161 162	9.617E-03 9.649E-03	2.563E-02 2.566E-02	0.000E+00 0.000E+00	8.497E-04 8.518E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
163 164	1.061E-02 1.071E-02	2.817E-02 2.883E-02	0.000E+00 0.000E+00	9.356Z-04 9.526Z-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
165	1.641E-02	4.382E-02	0.000E+00	1.451E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
166 167	1.769E-02 1.489E-02	4.704E-02 3.960E-02	0.000E+00 0.000E+00	1.559E-03 1.312E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
168 169	9.476E-03 7.910E-03	2.537E-02 2.119E-02	0.000E+00 0.000E+00	8.392E-04 7.009E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
170	1.032E-02 1.014E-02	2.752E-02 2.705E-02	0.000E+00 0.000E+00	9.123E-04 8.968E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
171 172	1.129E-02	2.995E-02	0.000E+00	9.946Z-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
173 174	1.127E-02 1.625E-02	3.039E-02 4.346E-02	0.000E+00 0.000E+00	1.004E-03 1.438E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
175 176	1.577E-02 1.668E-02	4.203E-02 4.430E-02	0.000E+00 0.000E+00	1.393E-03 1.468E-03	0.000E+00 0.000E+00			0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
177	1.783E-02	4.726E-02 3.042E-02	0.000E+00	1.568E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
178 179	1.141E-02 8.575E-03	2.302E-02	0.000E+00 0.000E+00	7.610E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
180 181	1.175E-02 1.165E-02	3.134E-02 3.092E-02	0.000E+00 0.000E+00	1.026E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
182 183	1.477E-02 1.568E-02	3.941E-02	0.000E+00	1.305E-03	0.000E+00	0.000E+00		0.000E+00 0.000E+00	0.000E+00 0.00GE+00	0.000E+00 0.000E+00
184	1.429E-02	3.806E-02	0.000E+00	1.261E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
185 186	1.884E-02 1.843E-02	4.884E-02	0.000E+00	1.621E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
187	1.727E-02	4.581E-02	0.000E+00	1.519E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

.88	1.472E-02 9.513E-03	3.950E-02	0.000E+00	1.306E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
.89 .90	1.152E-02	2.555E-02 3.061E-02	0.000E+00 0.000E+00	8.476E-04 1.015E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
191	1.597E-02	4.273E-02	0.000E+00	1.414E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
192	1.688E-02	4.487E-02	0.000E+00	1.489E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
193 194	1.722E-02 2.001E-02	4.582E-02 5.308E-02	0.000E+00 0.000E+00	1.518E-03 1.762E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
195	1.829E-02	4.846E-02	0.000E+00	1.609E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
L96	1.808E-02	4.791E-02	0.000E+00	1.589E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
L97 L98	1.602E-02 1.776E-02	4.246E-02 4.788E-02	0.000E+00	1.409E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
199	1.092E-02	2.914E-02	0.000E+00 0.000E+00	1.581E-03 9.650E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
200	1.671E-02	4.501E-02	0.000E+00	1.490E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
201	1.814E-02	4.828E-02	0.000E+00	1.599E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
202 203	2.753E-02 1.758E-02	7.392E-02 4.659E-02	0.000E+00 0.000E+00	2.454E-03 1.548E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
204	1.437E-02	3.812E-02	0.000E+00	1.267E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
205	1.311E-02	3.478E-02	0.000E+00	1.153E-03	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00
206 207	1.115E-02 1.023E-02	2.974E-02 2.736E-02	0.000E+00 0.000E+00	9.875E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
208	5.312E-03	1.429E-02	0.000E+00	9.108E-04 4.723E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
209	6.838E-03	1.826E-02	0.000E+00	6.047E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
210	7.581E-03	2.027E-02	0.000E+00	6.707E-04	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00
211 212	6.509E-03 8.575E-03	1.731E-02 2.287E-02	0.000E+00 0.000E+00	5.757E-04 7.587E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
213	9.913E-03	2.646E-02	0.000E+00	8.763E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
214	7.823E-03	2.093E-02	0.000E+00	6.925E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
215 216	1.009E-02 9.630E-03	2.687E-02 2.565E-02	0.000E+00 0.000E+00	8.901E-04 8.494E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
217	1.020E-02	2.718E-02	0.000E+00	9.003E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
218	9.099E-03	2.423E-02	0.000E+00	8.028E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
219	1.176Z-02	3.148E-02	0.000E+00	1.042E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
220 221	7.010E-03 4.182E-03	1.877E-02 1.121E-02	0.000E+00 0.000E+00	6.209E-04 3.711E-04	0.000E+00 0.00E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
222	5.720E-03	1.524E-02	0.000E+00	5.057E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
223	6.733E-03	1.789E-02	0.000E+00	5.943E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
224 225	7.282E-03	1.936E-02	0.000E+00	6.428E-04	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
226	7.368E-03 8.24 <i>5</i> E-03	1.962E-02 2.204E-02	0.000E+00 0.000E+00	6.509E-04 7.298E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
227	7.790E-03	2.084E-02	0.000E+00	6.895E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
228	6.687E-03	1.795E-02	0.000E+00	5.934E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
229 230	6.803E-03 8.125E-03	1.816E-02	0.000E+00	6.014E-04	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
231	7.121E-03	2.171E-02 1.896E-02	0.000E+00 0.000E+00	7.185E-04 6.303E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
232	9.446E-03	2.520E-02	0.000E+00	8.353E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
233	1.033E-02	2.756E-02	0.000E+00	9.126E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
234 235	9.074E-03 1.019E-02	2.421E-02 2.711E-02	0.000E+00 0.000E+00	8.014E-04 8.981E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
236	1.066E-02	2.840E-02	0.000E+00	9.407E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
237	9.463E-03	2.520E-02	0.000E+00	8.348E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
238 239	1.176E-02	3.154E-02	0.000E+00	1.043E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
240	6.936E-03 6.225E-03	1.857E-02 1.661E-02	0.000E+00 0.000E+00	6.144E-04 5.506E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
241	6.581E-03	1.751E-02	0.000E+00	5.810E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
242	7.787E-03	2.071E-02	0.000E+00	6.873E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
243 244	7.584E-03 9.452E-03	2.021E-02	0.000E+00	6.703E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
245	1.067E-02	2.526E-02 2.837E-02	0.000E+00 0.000E+00	8.364E-04 9.413E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
246	6.591E-03	1.758E-02	0.000E+00	5.827E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
247	8.021E-03	Z.143E-02	0.000E+00	7.092E-04	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00
248 249	8.047E-03 6.640E-03	2.154E-02 1.773E-02	0.000E+00 0.000E+00	7.127E-04 5.870E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
250	8.722E-03	2.328E-02	0.000E+00	7.708E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
251	7.667E-03	2.044E-02	0.000E+00	6.789E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
252	1.060E-02	2.829E-02	0.000E+00	9.370E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
253 254	1.015E-02 1.109E-02	2.709E-02 2.950E-02	0.000E+00 0.000E+00	8.968E-04 9.773E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00
255	1.094E-02	2.914E-02	0.000E+00	9.652E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
256	9.834 <b>Z-0</b> 3	2.619E-02	0.000E+00	8.675E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
257 258	1.147E-02 7 025E-03	3.086E-02 1.880E-02	0.000E+00 0.000E+00	1.020E-03 6.220E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
257 258 259	7.025E-03 7.129E-03	1.900E-02	0.000E+00	6.300E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
260	7.988 <b>E-</b> 03	2.125E-02	0.000E+00	7.051E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
261	7.738E-03	2.054E-02	0.000E+00	6.825E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
262 263	1.100E-02 1.173E-02	2.939E-02 3.120E-02	0.000E+00 0.000E+00	9.730E-04 1.035E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
264 264	1.377E-02	3.659E-02	0.000E+00	1.214E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
265	8.417E-03	2.252E-02	0.000E+00	7.454E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
266	7.637E-03	2.048E-02	0.000E+00	6.773E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
267 268	7.529E-03 9.017E-03	2.010E-02 2.409E-02	0.000E+00 0.000E+00	6.654E-04 7.972E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
269	9.017E-03 7.427E-03	2.409E-02 1.993E-02	0.000E+00	6.590E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
270	9.36ZE-03	2.497E-02	0.000E+00	8.267E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
271 272	8.327E-03 1.206E-02	2.223E-02 3.215E-02		7.372E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
272 273	1.198E-02	3.213E-02 3.194E-02	0.000£+00	1.065E-03 1.058E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
274	1.060E-02	2.822E-02	0.000E+00	9.346E-04	0.000E+00	0.000E+00	0.GOOE+00	0.000E+00	0.000E+00	0.000E+00
275	1.020E-02	2.719E-02	0.000E+00	9.005E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
276 277	1.084E-02 7.291E-03	2.931E-02 1.947E-02	0.000E+00	9.675E-04 6.451E-04	0.000E+00 0.000E+00		0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
277 278	8.706E-03	2.314E-02	0.000E+00	7.682E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
279	9.063 <b>E-</b> 03	2.405E-02	0.000E+00	7.991E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
280	1.309E-02	3.498E-02	0.000E+00	1.158E-03	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
281 282	1.281E-02 1.539E-02		0.000E+00 0.000E+00	1.129E-03 1.355E-03	0.000E+00 0.000E+00			0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
283	1.355E-02	3.604E-02	0.000E+00	1.195E-03	0.000E+00			0.000E+00	0.000E+00	0.000E+00
284	8.627E-03			7.626E-04					0.000E+00	0.000E+00

			a acce+00	8.137E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
285	9.200E-03	2.457E-02	0.000E+00 0.000E+00	8.13/E-04 8.282E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
286 287	9.357E-03 8.626E-03	2.503E-02 2.312E-02	0.000E+00	7.646E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
288	9.092E-03	2.426E-02	0.000E+00	8.032E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
289	9.475E-03	2.534E-02	0.000E+00	8.384E-04	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
290	1.002E-02	2.671E-02	0.000E+00	8.843E-04 8.524E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
291	9.640E-03	2.574E-02 5.344E-02	0.000E+00 0.000E+00	1.771E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
292 293	1.964E-02 1.240E-02	3.311E-02	0.000E+00	1.096E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
294	1.599E-02	4.238E-02	0.000E+00	1.407E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
295	1.558E-02	4.134E-02	0.000E+00	1.371E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
296	1.314E-02	3.491E-02	0.000E+00	1.160E-03 6.107E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
297	6.915E-03 7.908E-03	1.836E-02 2.103E-02	0.000E+00 0.000E+00	6.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0000000
298 299	8.825E-03	2.352E-02	0.000E+00	7.799E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
300	9.804E-03	2.617E-02	0.000E+00	8.665E-04	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
301	1.055E-02	2.820E-02	0.000E+00	9.332E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
302	1.002E-02	2.683E-02	0.000E+00 0.000E+00	8.875E-04 9.686E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
303 304	1.096E-02 1.066E-02	2.926E-02 2.839E-02	0.000E+00	9.403E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
305	1.241E-02	3.312E-02	0.000E+00	1.097E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
306	1.484E-02	3.936E-02	0.000E+00	1.307E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
307	1.260E-02	3.346E-02	0.000E+00	1.110E-03 1.003E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
308	1.135E-02	3.020E-02 1.318E-02	0.000E+00 0.000E+00	4.355E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
309 310	4.896E-03 5.717E-03	1.513E-02	0.000E+00	5.045E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
311	6.880E-03	1.824E-02	0.000E+00	6.076E-04	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
312	7.722E-03	2.053E-02	0.000E+00	6.822E-04 7.612E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
313	8.617E-03	2.297E-02 2.714E-02	0.000E+00 0.000E+00	8.986E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
314 315	1.017E-02 1.203E-02	3.210E-02	0.000E+00	1.063E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
316	1.202E-02	3.213E-02	0.000E+00	1.063E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
317	1.264E-02	3.390E-02	0.000E+00	1.121E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
318	1.130E-02	3.011E-02	0.000E+00 0.000E+00	9.997E-04 8.676E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
319	9.772E-03 7.116E-03	2.608E-02 1.901E-02	0.000E+00	6.322E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
320 321	9.866E-03	2.682E-02	0.000E+00	8.842E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
322	1.003E-02	2.728E-02	0.000E+00	8.995E-04	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
323	1.019E-02	2.774E-02	0.000E+00	9.142E-04 9.271E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
324	1.032E-02	2.813E-02	0.000E+00 0.000E+00	9.361E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
325	1.042E-02 1.056E-02	2.841E-02 2.847E-02	0.000E+00	9.379E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
326 327	1.251E-02	3.350E-02	0.000E+00	1.108E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
328	1.434E-02	3.841E-02	0.000E+00	1.271E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
329	1.613E-02	4.326E-02	0.000E+00	1.431E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
330	7.965E-03	2.125E-02 2.085E-02	0.000E+00 0.000E+00	7.036E-04 6.902E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
331 332	7.804E-03 7.898E-03	2.110E-02	0.000E+00	6.988E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
333	2.641E-02	7.063E-02	0.000E+00	2.337E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
334	2.759E-02	7.375E-02	0.000E+00	2.441E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0000E+00
335	2.884E-02	7.705E-02	0.000E+00	2.550E-03 2.663E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
336	3.013E-02	8.045E-02 8.376E-02	0.000E+00 0.000E+00	2.773E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
337 338	3.139E-02 3.244E-02	8.655E-02	0.000E+00	2.865E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
339	3.294E-02	8.791E-02	0.000E+00	2.910E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
340	3.210E-02	8.574E-02	0.000E+00	2.838E-03 6.837E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
341	7.690E-03	2.068E-02 2.347E-02	0.000E+00 0.000E+00	7.779E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
342 343	8.794E-03 8.949E-03	2.385E-02	0.000E+00	7.918E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
344	8.286E-03	2.207E-02	0.000E+00	7.337E-04	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
345	7.225E-03	1.923E-02	0.000E+00	6.399E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
346	3.092E-02	8.257E-02	0.000E+00 0.000E+00	2.733E-03 2.756E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
347	3.118E-02 3.138E-02	8.326E-02 8.381E-02	0.000E+00	2.774E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
348 349	3.159E-02	8.438E-02	0.000E+00	2.793E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
350	3.192E-02	8.527E-02	0.000E+00	2.822E-03	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
351	3.253E-02	8.690E-02	0.000E+00	2.876E-03 2.971E-03	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
352	3.361E-02 3.508E-02	8.976E-02 9.376E-02	0.000E+00 0.000E+00	3.103E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
353 354	7.762E-03	2.080E-02	0.000E+00	6.897E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
355	6.417E-03	1.711E-02	0.000E+00	5.684E-04	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
356	5.767E-03	1.534E-02	0.000E+00	5.101E-04 4.701E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
357	5.318E-03	1.414E-02 1.319E-02	0.000E+00 0.000E+00	4.386E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
358	4.963E-03 2.438E-02	6.468E-02	0.000E+00	2.144E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
359 360	2.435E-02	6.455E-02	0.000E+00	2.140E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
361	2.424E-02	6.423E-02	0.000E+00	2.130E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
362	2.403E-02 2.366E-02	6.360E-02	0.000E+00 0.000E+00	2.109E-03 2.076E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
363	2.366E-02 2.321E-02	6.258E-02 6.132E-02	0.000E+00	2.035E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
364 365	2.321E-02 2.277E-02	6.009E-02	0.000E+00	1.994E-03	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
366	2.225E-02	5.866E-02	0.000E+00	1.947E-03	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367	2.268E-02	5.975E-02	0.000E+00	1.984E-03 1.660E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368	1.885E-02	5.011E-02	0.000E+00 0.000E+00	9.072E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
369 370	1.018E-02 5.940E-03	2.747E-02 1.579E-02	0.000E+00	5.239E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00
371	6.978E-03	1.873E-02	0.000E+00	6.192E-04	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
372	6.458E-03	1.736E-02	0.000E+00	5.738E-04	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
373	5.900E-03	1.575E-02	0.000E+00	5.218E-04 4.794E-04	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
374	5.417E-03	1.448E-02 1.863E-02	0.000E+00 0.000E+00	6.180E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
375 376	6.992E-03 7.524E-03	2.003E-02	0.000E+00	6.646E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00
375 377	7.846E-03	2.088E-02	0.000E+00	6.929E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
378	7.859E-03	2.090E-02 1.957E-02	0.000E+00	6.944E-04	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
379	7.364E-03	1.957E-02	0.000E+00 0.000E+00	6.514E-04 6.208E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
380	6.997E-03 9.719E-03	1.871E-02 2.580E-02	0.000E+00	8.552E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
381	3.1725-03	4.2002 02	J. 230m . 30							

#### 1.122E-02 2.947E-02 3.553E-02 2.971E-02 7.819E-02 9.449E-02 0.000E+00 0.000E+00 0.000E+00 9.876E-04 2.592E-03 3.130E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 383 0.000E+00 0.000E+00 0.000E+00 0.000E+00 384 385 0.000E+00 0.000E+00 0 0005+00 0.000E+00 0 000E+00 0.000E+00 3 062E-02 8 148F-02 0.000E+00 2.699E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.186E-02 386 5.807E-02 0.000E+00 1.924E-03 0 000F+00 0.0005+00 0.0000+00 0 0005+00 0.000E+00 0.000E+00 3.602E-02 3.232E-02 0.000E+00 1.193E-03 1.070E-03 387 1 354F-02 0.000E+00 0.000E+00 1.209E-02 1.290E-02 388 0.000E+00 0 000E+00 0.000E+00 0.000E+00 0 000E+00 G GOOF+OO 389 3 449E-02 0.000E+00 0.000E+00 1.141E-03 3.942E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 390 4.411E-03 4.434E-03 1.195E-02 1.176E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3 912E-04 0.000E+00 392 4.896E-03 1.301E-02 1.361E-02 0.000E+00 4.322E-04 0 0005+00 5.114E-03 4 517E-04 O OCCE+OC 0.0000 0 000E+00 0.0005+00 0 000E+00 000E+00 6.429E-03 5.868E-03 5.309E-03 1.710E-02 1.560E-02 0.000E+00 0.000E+00 5.682E-04 5.188E-04 394 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0 000E+00 395 0 000E+00 0.0002+00 0 000E+00 0 000E+00 O COOF+OO 000E+00 396 1.416E-02 1.614E-02 0 000E+00 4.700E-04 5.362E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 397 6.056E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0 000E+00 0.000E+00 6.527E-03 9.622E-03 5.752E-04 8.472E-04 7.544E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 398 1.734E-02 0.000E+00 0.000E+00 399 2.554E-02 2.266E-02 0.000E+00 0.000E+00 0.000E+00 0.0005+00 8.543E-03 400 0.0000 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.186E-03 2.555E-03 3.111E-03 3.584E-02 7.717E-02 401 1.342E-02 0.000E+00 0 000E+00 0.000E+00 2.895E-02 3.533E-02 2.711E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 402 0 000E+00 0.000E+00 0.000E+00 403 9.389E-02 7.220E-02 0.000E+00 0.000E+00 0.000E+00 404 2.391E-03 0.000E+00 1.662E-03 9.818E-04 405 1.886E-02 5.015E-02 0.000E+00 0.000E+00 5.015E-02 2.964E-02 2.793E-02 2.834E-02 2.98E-02 0 000E+00 1.113E-02 1.050E-02 406 0.000E+00 0.000E+00 0.000E+00 0 000E+00 0.000E+00 0 000E+00 0 000E+00 0.0005+00 407 0.000E+00 0.000E+00 9.252E-04 9.380E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.061E-02 1.122E-02 0.000E+00 0.000E+00 0 000E+00 0 000E+00 0 000E+00 0 000E+00 0.000E+00 0.000E+00 409 9.923E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.061E-02 1.079E-02 1.034E-02 2.321E-02 3.909E-03 3.493E-04 3.560E-04 3.421E-04 7.708E-04 410 0.000E+00 0.000E+00 0.000E+00 0 000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 411 3.987E-03 0.000E+00 0.000E+00 0.000E+00 412 3.869E-03 8.743E-03 0.000E+00 0 000E+00 0 000E+00 0.0002+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.070E-04 5.547E-04 6.086E-04 414 5.732E-03 6.151E-03 1.524E-02 1.671E-02 0.000E+00 0 000E+00 .000E+00 416 417 6.885E-03 4.786E-03 1.829E-02 1.315E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 4.364E-04 0.000E+00 0 000E+00 0 000E+00 0.000E+00 0.000E+00 2.073E-02 1.564E-02 3.768E-02 5.867E-02 6.864E-04 5.169E-04 1.246E-03 1.946E-03 0.000E+00 0.000E+00 418 7.749E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 5.810E-03 1.404E-02 2.204E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.0002+00 0.000E+00 0.000E+00 0.000E+00 420 0.000E+00 0.000E+00 .000E+00 0.0002+00 0 000E+00 0 000E+00 0 000E+00 0.000E+00 0.000E+00 6.240E-02 5.886E-02 5.726E-02 8.467E-02 0.000E+00 0.000E+00 422 2.339E-02 2.067E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.339E-02 2.214E-02 2.145E-02 3.186E-02 423 1.956E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.897E-03 2.812E-03 0.000E+00 424 .000E+00 .000E+00 0.000E+00 0.000E+00 425 0 000E+00 0 000E+00 0.0002+00 0.000E+00 0.000E+00 8.136E-02 7.749E-02 9.134E-02 8.721E-02 0.000E+00 0.000E+00 2.713E-03 2.566E-03 0.000E+00 426 3.064E-02 0.000E+00 0 000E+00 3.436E-02 0.000E+00 0.000E+00 3.026E-03 2.889E-03 0.000E+00 0.000E+00 428 0.000E+00 0.000E+00 429 3.280E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 8.268E-02 6.738E-02 6.383E-02 5.990E-02 2.739E-03 2.232E-03 2.114E-03 1.984E-03 430 3.108E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.530E-02 2.397E-02 431 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0 000E+00 0 000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 432 0.000E+00 2.249E-02 1.567E-02 433 0.000E+00 0.000E+00 0.000E+00 0.000E+00 4.175E-02 3.484E-02 2.948E-02 2.812E-02 0.000E+00 0.000E+00 0.000E+00 1.383E-03 1.153E-03 9.749E-04 434 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.303E-02 1.099E-02 435 0.000E+00 0.000E+00 436 0 000E+00 0 000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 437 1.056E-02 0.000E+00 9.313E-04 7.953E-04 0.000E+00 0.000E+00 2.402E-02 1.952E-02 2.518E-02 2.889E-02 9.001E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0 00000+00 0.000E+00 0.000E+00 0.000E+00 6.464E-04 8.338E-04 439 7 294F-03 0.000E+00 0.000E+00 440 441 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.086E-02 0.000E+00 0.000E+00 0.000E+00 9.570E-04 000E+00 0.000E+00 0.000E+00 442 1.068E-02 2.845E-02 0.000E+00 9.422E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 8.938E-03 2 380E-02 0.000E+00 0.000E+00 7.883E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 444 2.310E-02 1.968E-02 7.651E-04 0.000E+00 0 0005+00 6.516E-04 6.781E-04 7.011E-04 445 7.379E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.049E-02 0.000E+00 0.000E+00 0.000E+00 0 000E+00 447 7.943E-03 1.963E-02 2.583E-02 2.172F-0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 7.363E-03 6.501E-04 8.548E-04 0 000E+00 0 000E+00 0 000E+00 0 000F+00 449 9.667E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 8.140E-03 0.000E+00 7.192E-04 5.963E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0 000E+00 0.000E+00 0.000E+00 451 6 746E-03 801E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 ABOVE CONCENTRATIONS DO NOT INCLUDE THE FOLLOWING BACKGROUND CONCENTRATIONS: 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

#### \*\*\* PREDICTED PEAK 1-HOUR CONCENTRATIONS (ug/m3) FROM ALL SOURCES \*\*\*

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET, TSP \* (
Input File: g:\beest\GQ\gqtspace.OUT

RECEPTOR	Zn	NTXPM
1 2 3 4	1.721E-03 1.276E-03 1.300E-03 2.188E-03	2.918E+02 2.174E+02 2.216E+02 3.738E+02
5 6	2.134E-03 2.064E-03	3.616E+02

\* OUTFUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* UT 11/14/96 07:44:58 Page - 73

16 6.914E-03 1 17 2.361E-03 1 18 1.844E-03 2 20 2.139E-03 2 21 5.519E-03 2 22 5.122E-03 2 23 5.866E-03 2 24 7.448E-03 2 25 7.801E-03 2 26 6.762E-03 2 27 4.977E-03 2 28 5.276E-03 2 29 8.296E-03 3 30 9.408E-03 3 31 8.954E-03 3 32 7.384E-03 3 33 6.991E-03 3 34 6.991E-03 3 35 4.860E-03 3 36 3.989E-03 3 37 4.288E-03 3	.672E+02
--	----------

104	00000000000000000000000000000000000000
-----	--

20123045678901123456789012334567890123345678901233456789012322222222222222222222222222222222222	3.596E-03 3.486E-03 3.486E-03 3.486E-03 3.486E-03 3.486E-03 3.486E-03 3.486E-03 3.486E-03 3.486E-03 3.586E-03	6.143E+02 9.475E+02 9.475E+02 1.5956E+02 4.4375E+02 3.796E+02 3.796E+02 3.1805E+02 2.312E+02 2.3
---	---	--

298 1.566E-C 299 1.757E-C 3000 1.959E-C 3001 2.114E-C 3002 2.017E-C 3003 2.190E-C 3004 2.120E-C 3005 2.478E-C 3006 2.918E-C 3007 2.484E-C 3009 9.994E-C 311 1.76E-C 311 1.76E-C 311 1.351E-C 311 1.351E-	3 3.327E+02 3 3.580E+02 3 3.580E+02 3 3.580E+02 3 3.61E+02 3 3.718E+02 3 3.61E+02 3 3.718E+02 3 3.61E+02 3 3.61E+02 3 3.65E+02 3 3.65E+02 3 3.26E+02 3 3.26E+02 3 3.26E+02 3 3.25E+02 3 3.451E+02 3 3.451E+02 3 3.451E+02 3 3.452E+02 3 3.451E+02 3 3.357E+02 3 3.357E+02 3 3.357E+02 3 3.546E+02 3 3.646E+03 3 3.
--	--

395	1.160E-03	1.994E+02
396	1.059E-03	1.805E+02
397	1.205E-03	2.061E+02 2.211E+02
	1.2052-03	2.0612702
398	1 2897-03	2.211E+02
	1 00/5 00	2 26271+02
399	1.894E-03 1.679E-03 2.682E-03 5.763E-03	3.257E+02
400	1.679E-03	2.902E+02
401	2 6925-03	2.902E+02 4.543E+02
	2.0025-03	4.3435702
402	5.763E-03	9.795E+02
403	4 990E-03	1 1047403
	0.7005 03	1.1342.00
404	5.387E-03	9.191E+02
405	3 731F-03	6 392E+02
	0.7010 00	0.032
406	2.211E-03	1.194E+03 9.191E+02 6.392E+02 3.774E+02
407	2.080E-03	3.557E+02 3.605E+02
	2 1005-00	2 (055+02
408	2.1225-03	3.003ETU4
409	2.248E-03	3.810E+02
410	0 8168-04	1 2275+02
	7.0105-04	1.33/6702
411	9.572E-04	1.362E+02
412	9 0778-04	1 313F+02
	3.077E-04	1.3135702
413	1.722E-03	2.963E+0Z
414	1 13AE-03	1 949E+62
7.17	1.1072 00	1.3732.00
415	1.28/6-03	2.131E+02
416	1.358E-03	2.340E+02
	1 021E-02	1 6705+02
417	1.0315-03	1.6/95702
418	1.557E-03	2.625E+02
	1 196E-03	1 0715+02
419	2.862E-03 6.980E-03 6.980E-03 2.387E-03 3.731E-03 2.11E-03 2.080E-03 2.122E-03 2.122E-03 9.816E-04 9.572E-04 1.722E-03 1.134E-03 1.287E-03 1.358E-03 1.557E-03 1.557E-03 4.373E-03 4.373E-03 4.373E-03 4.373E-03	3.810E+02 1.337E+02 1.337E+02 2.963E+02 2.131E+02 2.131E+02 2.131E+02 2.625E+02 1.677E+02 7.475E+02 7.475E+02 7.519E+02 7.265E+03 1.082E+03 1.042E+03
420	2.845E-03	4.767E+02
421	4 373E-03	7 4755-02
421	7.3735 03	7.7752.02
422	4.670E-03	7.938E+02
423	4.381E-03 4.286E-03 6.293E-03 6.039E-03	7 5197+02
423	7.5011 05	7.3172.02
424	4.2862-03	/.263ETU2
425	6.293E-03	1.080E+03
100	( 020P-02	1 0435+03
426 427 428	6.0395-03	1.0425703
427	5.777E-03 6.792E-03 6.489E-03 6.156E-03 5.028E-03 4.761E-03	7.00 LETUZ
428	£ 7027-02	1.162E+03 1.110E+03
420	0./725-03	1.1025,00
429	6.489E-03	1.110E+03
430	6 156F-03	1.052E+03
	0.1002 00	2.0020.00
431	5.0281-03	8.579E+02
432	4 761E-03	8.128E+02
433	1 16 BE-03	7 6275102
	4.4005-03	7.847ETU2
434	3.117E-03	5.313E+02
425	2 6135-03	4 424E+02
435 436	2.6135-03	7.7242.02
436	2.223E-03	3./35E+02
437	2 099E-03	3.579E+02
	1 700E-03	3 0615100
438	1./99E-03	3.U345TU2
439	1.467E-03	2.478E+02
	20-705-0	2 20 (F+0
440	1.8/95-03	3.204ETU2
441	2.153E-03	3.678E+02
442	2 1218-02	3 623540
	2.121E-03	3.621ETU
443	1.775E-03	8.128E+02 7.627E+02 5.313E+02 4.424E+02 3.735E+02 3.579E+02 3.678E+02 3.621E+02 3.621E+02 3.621E+02 2.941E+02 2.941E+02 2.960EE+02 2.960EE+02 2.969E+02 2.497E+02
444	1 7008-00	2 941240
	1./225-03	4.74 LETU
445	1.471E-03	2.503E+02
446	1 5418-03	2 606F+0
	1.2412	2.000010
447	1.58ZE-03	2.69ZE+0
448	1.466E-03	2.497E+02
	1.7000.00	2 2015+0
449	4.761E-03 4.468E-03 3.117E-03 2.613E-03 2.039E-03 1.799E-03 1.879E-03 2.153E-03 2.153E-03 1.775E-03 1.72E-03 1.471E-03 1.582E-03 1.582E-03 1.582E-03	3.251E+0
450	1.626E-03	2.764E+0
	1.349E-03	3.281E+0 2.764E+0 2.288E+0
451	1.3475-03	4.400570

0.000E+00 0.000E+00

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET, TSP \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\gqtspace.dat Output File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 82

# \*\*\* PREDICTED ANNUAL CONCENTRATIONS (ug/m3) FROM ALL SOURCES \*\*\*

RECEPTOR	ACETA	ACROL	A3	BENZE	Ве	Cd	Cr	Cu	HCBO	ECN
1 2 3 4 5 6 7 8 9 10	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.239E-05 1.096E-04 1.089E-04 1.408E-04 1.42E-04 1.142E-04 1.146E-04 1.189E-04 1.509E-04 6.166E-05	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	3.944E-06 5.270E-06 5.191E-06 7.126E-06 7.204E-06 6.673E-06 5.800E-06 6.402E-06 6.754E-06 3.279E-06	2.627E-06 3.953E-06 3.927E-06 5.092E-06 5.138E-06 4.664E-05 4.129E-06 4.147E-06 4.305E-06 5.487E-06 2.230E-06	4.423E-07 6.660E-07 6.614E-07 8.572E-07 7.858E-07 7.858E-07 7.007E-07 7.283E-07 9.200E-07 3.762E-07	6.079E-06 9.202E-06 9.141E-06 1.182E-05 1.193E-05 9.593E-06 9.622E-06 9.983E-06 1.267E-05 5.177E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.076E-01 1.098E-01 1.091E-01 1.637E-01 1.606E-01 1.451E-01 1.013E-01 1.048E-01 3.612E-01 7.910E-02
12 13 14 15 16 17 18	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	2.668E-04 1.142E-04 1.151E-04 1.121E-04 1.276E-05 1.023E-04 1.012E-04	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.516E-05 8.511E-06 8.585E-06 8.405E-06 9.458E-06 3.722E-06 6.142E-06 6.909E-06	9.641E-06 4.177E-06 4.211E-06 4.106E-06 4.668E-06 2.462E-06 3.707E-06 3.696E-06	1.633E-06 7.087E-07 7.147E-07 6.964E-07 7.916E-07 4.160E-07 6.275E-07 6.249E-07	2.241E-05 9.591E-06 9.672E-06 9.421E-05 1.072E-05 5.719E-06 8.590E-06 8.497E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	5.094E-01 4.054E-01 4.186E-01 3.973E-01 5.410E-01 8.143E-02 1.774E-01 2.230E-01

20	0.000E+00	0.000Z+00	1.419E-04	0.000E+00	9.434E-06	5.158E-06	8.753E-07	1.192E-05	0.000E+00	4.009E-01
21	0.000E+00	0.000E+00	1.035E-04	0.000E+00	8.160E-06	3.846E-06	6.451E-07	8.695E-06	0.000E+00	9.410E-01
22 23	0.000E+00 0.000E+00	0.000E+00	9.621E-05	0.000E+00	8.317E-06	3.595E-06	6.035E-07	8.086E-06	0.000E+00	8.964E-01
24	0.000E+00	0.000E+00 0.000E+00	9.588E-05 9.526E-05	0.000E+00 0.000E+00	8.483E-06 8.311E-06	3.588E-06 3.549E-06	6.024E-07 5.978E-07	8.058E-06 8.006E-06	0.000E+00 0.000E+00	8.852E-01 8.887E-01
25	0.000E+00	0.000E+00	9.606E-05	0.000E+00	8.094E-06	3.565E-06	6.013E-07	8.072E-06	0.000E+00	9.623E-01
26 27	0.000E+00	0.000E+00	1.022E-04	0.000E+00	6.960E-06	3.746E-06	6.3122-07	8.583E-06	0.000E+00	1.120E+00
28	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.050E-04 1.122E-04	0.000E+00 0.000E+00	6.450E-06 6.701E-06	3.826E-06 4.087E-06	6.452E-07 6.886E-07	8.819E-06 9.426E-06	0.000E+00 0.000E+00	6.577E-01
29	0.000E+00	0.000E+00	1.419E-04	0.000E+00	8.946E-06	5.160E-06	8.728E-07	1.192E-05	0.000E+00	5.401E-01 4.623E-01
30	0.000E+00	0.000E+00	1.501E-04	0.000E+00	9.782E-06	5.456E-06	9.249E-07	1.261E-05	0.000E+00	4.549E-01
31 32	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.568E-04 1.571E-04	0.000E+00 0.000E+00	1.056E-05 1.101E-05	5.694E-06 5.709E-06	9.677E-07 9.716E-07	1.317E-05 1.320E-05	0.000 <del>2+</del> 00 0.000 <del>2+</del> 00	4.844E-01
33	0.000E+00	0.000E+00	1.736E-04	0.000E+00	1.262E-05	6.335E-06	1.076E-06	1.459E-05	0.000E+00	5.855E-01 2.114E+00
34	0.000E+00	0.000E+00	1.917E-04	0.000E+00	1.424E-05	7.009E-06	1.190E-06	1.611E-05	0.000E+00	2.252E+00
35 36	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.043E-04 2.132E-04	0.000E+00 0.000E+00	1.528E-05 1.548E-05	7.467E-06	1.268E-06 1.321E-06	1.716E-05	0.000E+00	2.229E+00
37	0.000E+00	0.000E+00	2.140E-04	0.000E+00	1.510E-05	7.768E-06 7.751E-06	1.324E-06	1.791E-05 1.798E-05	0.000E+00 0.000E+00	2.126E+00 1.957E+00
38	0.000E+00	0.000E+00	2.084E-04	0.000E+00	1.401E-05	7.528E-06	1.285E-06	1.750E-05	0.000E+00	1.032E+00
39 40	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.539E-04 3.213E-04	0.000E+00 0.000E+00	1.768E-05 2.307E-05	9.192E-06	1.570E-06	2.133E-05	0.000E+00	1.977E+00
41	0.000E+00	0.000E+00	4.368E-04	0.000E+00	3.563E-05	1.165E-05 1.686E-05	1.989E-06 2.735E-06	2.699E-05 3.670E-05	0.000E+00 0.000E+00	2.461E+00 2.178E+00
42	0.000E+00	0.000E+00	6.659E-04	0.000E+00	5.931E-05	2.475E-05	4.184E-06	5.596E-05	0.000E+00	1.405E+00
43 44	0.000E+00 0.000E+00	0.000E+00 0.000E+00	5.706E-04 5.313E-04	0.000E+00 0.000E+00	4.396E-05 2.294E-05	2.117E-05 1.950E-05	3.552E-06 3.219E-06	4.794E-05	0.000E+00	9.625E-01
45	0.000E+00	0.000E+00	5.177E-04	0.000E+00	1.522E-05	1.869E-05	3.100E-06	4.460E-05 4.344E-05	0.000E+00 0.000E+00	6.130E-01 4.053E-01
46	0.000E+00	0.000E+00	3.273E-04	0.000E+00	1.148E-05	1.184E-05	1.969E-06	2.747E-05	0.000E+00	2.956E-01
47 48	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.809E-04 6.325E-04	0.000E+00 0.000E+00	2.113E-05 1.588E-05	1.767E-05 2.292E-05	2.915E-06 3.775E-06	4.037E-05	0.000E+00	3.160E-01
49	0.000E+00	0.000E+00	7.479E-04	0.000E+00	1.863E-05	2.715E-05	4.463E-06	5.307E-05 6.276E-05	0.000E+00 0.000E+00	3.435E-01 3.582E-01
50	0.000E+00	0.000E+00	7.994E-04	0.000E+00	2.164E-05	2.916E-05	4.780E-06	6.708 <b>E-</b> 05	0.000E+00	3.461E-01
51 52	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.195E-04 2.777E-04	0.000E+00	1.731E-05	1.563E-05	2.540E-06	3.521E-05	0.000E+00	2.950E-01
53	0.000E+00	0.000E+00	2.011E-04	0.000E+00 0.000E+00	1.257E-05 9.369E-06	1.020E-05 7.330E-06	1.685E-06 1.221E-06	2.331E-05 1.688E-05	0.000E+00 0.000E+00	2.445E-01 2.025E-01
54	0.000E+00	0.000E+00	1.609E-04	0.000E+00	1.248E-05	6.120E-06	1.003E-06	1.352E-05	0.000E+00	1.706E-01
· 55 56	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.740E-04	0.000E+00	1.069E-05	6.606E-06	1.0712-06	1.461E-05	0.000E+00	1.816E-01
57	0.000E+00	0.000E+00	1.890E-04 2.002E-04	0.000E+00 0.000E+00	1.193E-05 9.685E-06	7.209E-06 7.271E-06	1.166E-06 1.217E-06	1.588E-05 1.681E-05	0.000E+00 0.000E+00	1.892E-01 1.888E-01
58	0.000E+00	0.000E+00	2.507E-04	0.000E+00	1.267E-05	9.147E-06	1.527E-06	2.105E-05	0.000E+00	2.140E-01
59 60	0.000E+00 0.000E+00	0.000E+00	3.094E-04	0.000E+00	2.360E-05	1.167E-05	1.927E-06	2.600E-05	0.000E+00	2.380E-01
61	0.000E+00	0.000E+00 0.000E+00	3.695E-04 4.431E-04	0.000E+00 0.000E+00	2.849E-05 3.281E-05	1.378E-05 1.641E-05	2.301E-06 2.752E-06	3.105E-05 3.723E-05	0.000E+00 0.000E+00	2.545E-01 2.647E-01
62	0.000E+00	0.000E+00	5.206E-04	0.000E+00	3.840E-05	1.923E-05	3.232E-06	4.374E-05	0.000E+00	2.785E-01
63 64	0.000E+00 0.000E+00	0.000E+00	6.042E-04	0.000E+00	4.812E-05	2.239E-05	3.768E-06	5.077E-05	0.000E+00	2.988E-01
65	0.000E+00	0.000E+00 0.000E+00	5.567E-04 6.562E-04	0.000E+00 0.000E+00	4.454E-05 4.691E-05	2.088E-05 2.414E-05	3.475E-06 4.066E-06	4.678E-05 5.513E-05	0.000E+00 0.000E+00	2.776E-01 2.999E-01
66	0.000E+00	0.000E+00	8.217E-04	0.000E+00	5.037E-05	3.010E-05	5.050E-06	6.902E-05	0.000E+00	3.263E-01
67	0.000E+00	0.000E+00	1.126E-03	0.000E+00	5.155E-05	4.112E-05	6.838E-06	9.459E-05	0.000E+00	3.674E-01
68 69	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.208E-03 1.208E-03	0.000E+00 0.000E+00	5.018E-05 5.274E-05	4.436E-05 4.412E-05	7.310E-06	1.014E-04	0.000E+00	4.083E-01
70	0.000E+00	0.000E+00	1.180E-03	0.000E+00	5.325E-05	4.318E-05	7.320E-06 7.160E-06	1.014E-04 9.907E-05	0.000E+00 0.000E+00	4.505E-01 4.778E-01
71	0.000E+00	0.000E+00	7.615E-04	0.000E+00	4.100E-05	2.791E-05	4.653E-06	6.395E-05	0.000E+00	3.984E-01
72 73	0.000E+00 0.000E+00	0.000E+00 0.000E+00	5.545E-04 4.213E-04	0.000E+00 0.000E+00	3.525E-05 2.258E-05	2.044E-05	3.415E-06 2.575E-06	4.657E-05	0.000E+00	3.294E-01
74	0.000E+00	0.000E+00	3.477E-04	0.000E+00	2.661E-05	1.556E-05 1.289E-05	2.163E-06	3.538E-05 2.921E-05	0.000E+00 0.000E+00	2.760E-01 2.394E-01
75	0.000E+00	0.000E+00	3.219E-04	0.000E+00	1.9262-05	1.224E-05	1.980E-06	2.704E-05	0.000E+00	2.440E-01
76 77	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.906E-04 2.507E-04	0.000E+00 0.000E+00	1.404E-05 1.201E-05	1.063E-05 9.206E-06	1.768E-06 1.525E-06	2.440E-05 2.105E-05	0.000E+00	2.555E-01
78	0.000E+00	0.000E+00	2.136E-04	0.000E+00	1.438E-05	8.209E-06	1.323E-06	1.795E-05	0.000E+00 0.000E+00	2.577E-01 2.520E-01
79	0.000E+00	0.000E+00	2.454E-04	0.000E+00	1.959E-05	9.401E-06	1.534E-06	2.06ZE-05	0.000E+00	2.866E-01
80 81	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.747E-04 3.225E-04	0.000E+00 0.000E+00	1.261E-05 1.318E-05	1.011E-05 1.182E-05	1.668E-06 1.950E-06	2.306E-05 2.707E-05	0.000E+00 0.000E+00	3.304E-01
82	0.000E+00	0.000E+00	3.798E-04	0.000E+00	1.346E-05	1.379E-05	2.2862-06	3.188E-05	0.000E+00	3.905E-01 4.736E-01
83	0.000E+00	0.000E+00	4.183E-04	0.000E+00	1.432E-05	1.516E-05	2.515E-06	3.511E-05	0.000E+00	5.906E-01
84 85	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.538E-04 4.826E-04	0.000E+00 0.000E+00	1.521E-05 1.592E-05	1.643E-05 1.748E-05	2.727E-06 2.899E-06	3.809E-05 4.051E-05	0.000E+00 0.000E+00	7.943E-01 1.268E+00
86	0.000E+00	0.000E+00	4.673E-04	0.000E+00	1.641E-05	1.696E-05	2.812E-06	3.922E-05	0.000E+00	2.898E+00
87	0.000E+00	0.000E+00	2.446E-04	0.000E+00	1.231E-05	8.911E-06	1.490E-06	2.054E-05	0.000E+00	3.314E+00
88 89	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.619E-04 1.173E-04	0.000E+00 0.000E+00	9.782E-06 7.949E-06	5.927E-06 4.317E-06	9.940E-07 7.245E-07	1.359E-05 9.851E-06	0.000E+00 0.000E+00	2.082E+00 7.771E-01
90	0.000E+00	0.000E+00	1.098E-04	0.000E+00	8.014E-06	4.061E-06	6.814E-07	9.227E-06	0.000E+00	8.986E-01
91	0.000E+00	0.000E+00	5.373E-04	0.000E+00	2.231E-05	1.940E-05	3.249E-06	4.511E-05 4.366E-05	0.000E+00	3.187E-01
92 93	0.000E+00 0.000E+00	0.000E+00 0.000E+00	5.201E-04 4.998E-04	0.000E+00 0.000E+00	2.205E-05 2.197E-05	1.878E-05 1.806E-05	3.147E-06 3.028E-06	4.366E-05 4.196E-05	0.000E+00 0.000E+00	3.061E-01 2.908E-01
94	0.000E+00	0.000E+00	4.783E-04	0.000E+00	2.245E-05	1.735E-05	2.905E-06	4.016E-05	0.000E+00	2.753E-01
95	0.000E+00	0.000E+00	4.578E-04	0.000E+00	2.244E-05	1.661E-05	2.785E-06	3.844E-05	0.000E+00	2.619E-01
96 97	0.00 <b>0E+</b> 00 0.000 <b>E+</b> 00	0.000E+00 0.000E+00	4.393E-04 4.212E-04	0.000E+00	2.201E-05 2.279E-05	1.591E-05	2.674E-06	3.688E-05 3.538E-05	0.000E+00	2.499E-01
98	0.000E+00	0.000E+00	3.964E-04	0.000E+00 0.000E+00	2.100E-05	1.533E-05 1.434E-05	2.573E-06 2.419E-06	3.329E-05	0.000E+00 0.000E+00	2.385E-01 2.277E-01
99	0.000E+00	0.000E+00	3.745E-04	0.000E+00	2.269E-05	1.369E-05	2.300E-06	3.145E-05	0.000E+00	2.188E-01 2.110E-01
100 101	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.505E-04 3.298E-04	0.000E+00 0.000E+00	2.187E-05 2.384E-05	1.281E-05 1.224E-05	2.155E-06 2.045E-06	2.944E-05 2.771E-05	0.000E+00 0.000E+00	2.110E-01
102	0.000E+00	0.000E+00	3.116E-04	0.000E+00	2.777E-05	1.163E-05	1.958E-06	2.619E-05	0.000E+00	2.051E-01 2.007E-01
103	0.000E+00	0.000E+00	6.140E-04	0.000E+00	2.515E-05	2.219E-05	3.7L1E-06	5.155E-05	0.000E+00	3.327E-01
104 105	0.000E+00 0.000E+00	0.000E+00 0.000E+00	5.890E-04 5.594E-04	0.000E+00 0.000E+00	2.508E-05	2.131E-05	3.565E-06 3.391E-06	4.945E-05	0.000E+00	3.173E-01
106	0.000E+00	0.000E+00	5.300E-04	0.000E+00	2.500E-05 2.579E-05	2.026E-05 1.927E-05	3.224E-06	4.697E-05 4.450E-05	0.000E+00 0.000E+00	3.003E-01 2.839E-01
107	0.000E+00	0.000E+00	5.038E-04	0.000E+00	2.553E-05	1.831E-05	3.069E-06	4.230E-05	0.000E+00	2.703E-01
108 109	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.783E-04 4.518E-04	0.000E+00 0.000E+00	2.539E-05 2.585E-05	1.740E-05 1.649E-05	2.920E-06 2.767E-06	4.017E-05 3.795E-05	0.000E+00 0.000E+00	2.583E-01
110	0.000E+00	0.000E+00	4.221E-04	0.000E+00	2.633E-05	1.550E-05	2.597E-06	3.546E-05	0.000E+00	2.465E-01 2.356E-01
111	0.000E+00	0.000E+00	3.933E-04	0.000E+00	2.55ZE-05	1.446E-05	2.424E-06	3.303E-05	0.000E+00	2.260E-01
112 113	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.670E-04 3.425E-04	0.000E+00 0.000E+00	2.563E-05 2.560E-05	1.358E-05	2.271E-06 2.129E-06	3.083E-05	0.000E+00	2.183E-01
114	0.000E+00	0.000E+00	3.221E-04	0.000E+00	2.841E-05	1.275E-05 1.202E-05	2.129E-06 2.023E-06	2.878E-05 2.707E-05	0.000E+00 0.000E+00	2.124E-01 2.080E-01
115	0.000E+00	0.000E+00	7.167E-04	0.000E+00	2.897E-05	2.596E-05	4.330E-06	6.017E-05	0.000E+00	3.458E-01
116	0.000E+00	0.000E+00	6.786E-04	0.000E+00	2.905E-05	2.464E-05	4.109E-06	5.698E-05	0.000E+00	3.285E-01

117	0.000E+00	0.0007100	f 222E-0/	0.0005+00	2.903E-05	2.300E-05	3.84ZE-06	5,316E-05	0.000E+00	3.103E-01
117 118	0.000E+00	0.000E+00 0.000E+00	6.331E-04 5.920E-04	0.000E+00 0.000E+00	3.009E-05	2.158E-05	3.607E-06		0.000E+00	2.936E-01
119	0.000E+00	0.000E+00	5.572E-04	0.000E+00	3.246E-05	2.074E-05	3.419E-06	4.680E-05	0.000E+00	2.808E-01
120	0.000E+00	0.000E+00	5.178E-04	0.000E+00	3.033E-05	1.899E-05	3.176E-06	4.349E-05 4.036E-05	0.000E+00 0.000E+00	2.673E-01 2.545E-01
121 122	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.805E-04 4.455E-04	0.000E+00 0.000E+00	2.928E-05 3.048E-05	1.761E-05 1.650E-05	2.95ZE-06 2.755E-06	3.743E-05	0.000E+00	2.433E-01
123	0.000E+00	0.000E+00	4.132E-04	0.000E+00	2.963E-05	1.534E-05	2.562E-06	3.472E-05	0.000E+00	2.336E-01
124	0.000E+00	0.000E+00	3.884E-04	0.000E+00	3.376E-05	1.465E-05	2.438E-06	3.264E-05	0.000E+00	2.269E-01
125 126	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.604E-04 3.343E-04	0.000E+00 0.000E+00	3.062E-05 2.867E-05	1.343E-05 1.246E-05	2.258E-06 2.096E-06	3.029E-05 2.810E-05	0.000E+00 0.000E+00	2.211E-01 2.166E-01
127	0.000E+00	0.000E+00	8.617E-04	0.000E+00	3.410E-05	3.132E-05	5.204E-06	7.235E-05	0.000E+00	3.590E-01
128	0.000E+00	0.000E+00	8.028E-04	0.000E+00	3.413E-05	2.921E-05	4.860E-06	6.740E-05	0.000E+00	3.402E-01
129	0.000E+00	0.000E+00	7.277E-04	0.0002+00	3.511E-05 4.294E-05	2.655E-05 2.463E-05	4.426E-06 4.132E-06	6.110E-05 5.635E-05	0.000E+00 0.000E+00	3.212E-01
130 131	0.000E+00 0.000E+00	0.000E+00 0.000E+00	6.708E-04 6.116E-04	0.000E+00 0.000E+00	4.225E-05	2.249E-05	3.782E-06	5.138E-05	0.000E+00	3.046E-01 2.899E-01
132	0.000E+00	0.000E+00	5.589E-04	0.000E+00	4.111E-05	2.087E-05	3.471E-06	4.696Z-05	0.000E+00	2.769E-01
133	0.000E+00	0.000E+00	5.082E-04	0.000E+00	3.407E-05 3.755E-05	1.879E-05	3.139E-06 2.945E-06	4.269E-05	0.000E+00	2.628E-01
134 135	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.723E-04 4.381E-04	0.000E+00 0.000E+00	3.604E-05	1.752E-05 1.628E-05	2.738E-06	3.969E-05 3.682E-05	0.000E+00 0.000E+00	2.520E-01 2.427E-01
136	0.000E+00	0.000E+00	4.065E-04	0.000E+00	3.284E-05	1.509E-05	2.538E-06	3.416E-05	0.000E+00	2.358E-01
137	0.000E+00	0.000E+00	3.767E-04	0.000E+00	3.104E-05	1.401E-05	2.355E-06	3.166E-05	0.000E+00	2.307E-01
138 139	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.492E-04 1.095E-03	0.000E+00 0.000E+00	2.931E-05 4.768E-05	1.300E-05 4.032E-05	2.186E-06 6.640E-06	2.935E-05 9.197E-05	0.000E+00 0.000E+00	2.262E-01 3.738E-01
140	0.000E+00	0.000E+00	1.005E-03	0.000E+00	4.876E-05	3.675E-05	6.116E-06	8.442E-05	0.000E+00	3.531E-01
141	0.000E+00	0.000E+00	8.607E-04	0.000E+00	4.879E-05	3.152E-05	5.270E-06	7.229E-05	0.000E+00	3.326E-01
142 143	0.000E+00 0.000E+00	0.000E+00 0.000E+00	7.385E-04 6.551E-04	0.000E+00 0.000E+00	4.777E-05 4.604E-05	2.707E-05 2.409E-05	4.551E-06 4.055E-06	6.204E-05 5.504E-05	0.000E+00 0.000E+00	3.138E-01 2.992E-01
144	0.000E+00	0.000E+00	5.912E-04	0.000E+00	4.478E-05	2.184E-05	3.676E-06	4.968E-05	0.000E+00	2.859E-01
145	0.000E+00	0.000E+00	5.394E-04	0.000E+00	4.202E-05	1.998E-05	3.359E-06	4.532E-05	0.000E+00	2.728E-01
146	0.0002+00	0.000E+00	4.976E-04	0.000E+00	3.973E-05	1.845E-05	3.104E-06	4.181E-05	0.000E+00	2.615E-01
147 148	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.602E-04 4.259E-04	0.000E+00 0.000E+00	3.662E-05 3.386E-05	1.707E-05 1.580E-05	2.870E-06 2.656E-06	3.867E-05 3.579E-05	0.000E+00 0.000E+00	2.531E-01 2.468E-01
149	0.000E+00	0.000E+00	3.951E-04	0.000E+00	3.152E-05	1.466E-05	2.465E-06	3.320E-05	0.000E+00	2.414E-01
150	0.000E+00	0.000E+00	3.660E-04	0.000E+00	2.929E-05	1.359E-05	2.284E-06	3.075E-05	0.000E+00	2.368E-01
151 152	0.000E+00 0.000E+00	0.000Z+00 0.000E+00	5.685E-04 5.259E-04	0.000E+00 0.000E+00	4.539E-05 4.075E-05	2.105E-05 1.948E-05	3.546E-06 3.275E-06	4.777E-05 4.419E-05	0.000E+00 0.000E+00	2.838E-01 2.734E-01
153	0.000E+00	0.000E+00	4.879E-04	0.000E+00	3.709E-05	1.805E-05	3.034E-06	4.099E-05	0.000E+00	2.654E-01
154	0.000E+00	0.0002+00	4.502E-04	0.000E+00	3.624E-05	1.675E-05	2.810E-06	3.783E-05	0.000E+00	2.594E-01
155 156	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.207E-04 3.881E-04	0.000E+00 0.000E+00	3.187E-05 3.016E-05	1.557E-05 1.441E-05	2.616E-06 2.417E-06	3.534E-05 3.261E-05	0.000E+00 0.000E+00	2.533E-01 2.487E-01
157	0.000E+00	0.000E+00	2.970E-04	0.000E+00	2.435E-05	1.104E-05	1.856E-06	2.496E-05	0.000E+00	2.167E-01
158	0.000E+00	0.000E+00	3.046E-04	0.000E+00	2.329E-05	1.130E-05	1.895E-06	2.559E-05	0.000E+00	2.146E-01
159	0.000E+00	0.000E+00	2.993E-04	0.000E+00 0.000E+00	1.439E-05 1.291E-05	1.089E-05 1.052E-05	1.820E-06 1.768E-06	2.513E-05 2.450E-05	0.000E+00 0.000E+00	2.232E-01 2.253E-01
160 161	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.918E-04 2.773E-04	0.000E+00	1.224E-05	1.000E-05	1.680E-06	2.328E-05	0.000E+00	2.142E-01
162	0.000E+00	0.000E+00	2.637E-04	0.000E+00	1.199E-05	9.513E-06	1.599E-06	2.214E-05	0.000E+00	1.976E-01
163	0.000E+00	0.000E+00	2.531E-04	0.000E+00	1.203E-05	9.135E-06	1.537E-06	2.125E-05	0.000E+00	1.784E-01
164 165	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.352E-04 2.111E-04	0.000E+00 0.000E+00	1.205E-05 1.202E-05	8.496E-06 7.645E-06	1.433E-06 1.292E-06	1.975E-05 1.773E-05	0.000E+00 0.000E+00	1.634E-01 1.536E-01
166	0.000E+00	0.000E+00	1.858E-04	0.000E+00	1.139E-05	6.740E-06	1.141E-06	1.560E-05	0.000E+00	1.484E-01
167	0.000E+00	0.000E+00	1.660E-04	0.000E+00	1.022E-05	6.022E-06	1.020E-06	1.394E-05	0.000E+00	1.475E-01
168	0.000E+00	0.000E+00	3.750E-04	0.000E+00 0.000E+00	1.765E-05 1.660E-05	1.363E-05 1.356E-05	2.278E-06 2.277E-06	3.148E-05 3.156Z-05	0.000E+00 0.000E+00	2.548E-01 2.632E-01
169 170	0.000E+00	0.000E+00 0.000E+00	3.758E-04 3.598E-04	0.000E+00	1.547E-05	1.298E-05	2.178E-06	3.021E-05	0.000E+00	2.574E-01
171	0.000E+00	0.000E+00	3.374E-04	0.000E+00	1.509E-05	1.218E-05	2.045E-06	2.833E-05	0.000E+00	2.354E-01
172	0.000E+00	0.000E+00	3.167E-04	0.000E+00	1.500E-05 1.514E-05	1.143E-05 1.067E-05	1.924E-06 1.798E-06	2.659E-05 2.477E-05	0.000E+00 0.000E+00	2.115E-01 1.891E-01
173 174	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.950E-04 2.620E-04	0.000E+00 0.000E+00	1.552E-05	9.521E-06	1.607E-06	2.200E-05	0.000E+00	1.753E-01
175	0.000E+00	0.000E+00	2.271E-04	0.000E+00	1.551E-05	8.324E-06	1.403E-06	1.908E-05	0.000E+00	1.670E-01
176	0.000E+00	0.000E+00	1.965E-04	0.000E+00	1.279E-05	7.160E-06 6.351E-06	1.211E-06 1.073E-06	1.651E-05 1.464E-05	0.000E+00 0.000E+00	1.640E-01 1.602E-01
177 178	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.743E-04 5.029E-04	0.000E+00 0.000E+00	1.111E-05 2.995E-05	1.889E-05	3.091E-06	4.224E-05	0.000E+00	3.129E-01
179	0.000E+00	0.000E+00	4.888E-04	0.000E+00	2.079E-05	1.771E-05	2.959E-06	4.104E-05	0.000E+00	3.087E-01
180	0.000E+00	0.000E+00	4.578E-04	0.000E+00	1.961E-05	1.652E-05	2.771E-06	3.844E-05 3.505E-05	0.000E+00 0.000E+00	2.880E-01 2.543E-01
181 182	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.175E-04 3.838E-04	0.000E+00 0.000E+00	1.968E-05 2.178E-05	1.510E-05 1.406E-05	2.536E-06 2.350E-06	3.223E-05	0.000E+00	2.260E-01
183	0.000E+00	0.000E+00	3.355E-04	0.000E+00	1.972E-05	1.221E-05	2.057E-06	2.818E-05	0.000E+00	2.042E-01
184	0.000E+00	0.000E+00	2.913E-04	0.000E+00	2.561E-05	1.088E-05	1.829E-06	2.448E-05 2.053E-05	0.000E+00 0.000E+00	1.918E-01 1.841E-01
185 186	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.443E-04 2.094E-04	0.000E+00 0.000E+00	2.038E-05 1.501E-05	9.193E-06 7.730E-06	1.529E-06 1.298E-06	1 760F-05	0.000E+00	1.801E-01
187	0.000E+00	0.000E+00	1.852E-04	0.000E+00	1.154E-05	6.763E-06	1.139E-06	1.555E-05	0.000E+00	1.711E-01
188	0.000E+00	0.000E+00	7.079E-04	0.000E+00	3.989E-05	2.601E-05	4.334E-06	5.943E-03	0.000E+00	3.803E-01
189	0.000E+00 0.000E+00	0.000E+00 0.000E+00	6.816Z-04 6.130E-04	0.000E+00 0.000E+00	2.741E-05 2.696E-05	2.473E-05 2.224E-05	4.118E-06 3.714E-06	5.722E-05 5.147E-05	0.000E+00 0.000E+00	3.526E-01 3.140E-01
190 191	0.000E+00	0.000E+00	5.298E-04	0.000E+00	2.847E-05	1.936E-05	3.236E-06	4.449E-05	0.000E+00	2.751E-01
192	0.000E+00	0.000E+00	4.496E-04	0.000E+00	2.773E-05	1.650E-05	2.764E-06	3.776E-05	0.000E+00	2.448E-01
193	0.000E+00	0.000E+00	3.76ZE-04	0.000E+00	2.824E-05 2.743E-05	1.401E-05 1.180E-05	2.339E-06 1.986E-06	3.161E-05 2.660E-05	0.000E+00 0.000E+00	2.223E-01 2.102E-01
194 195	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.166E-04 2.638E-04	0.000E+00 0.000E+00	2.118E+05	9.904E-06	1.647E-06	2.217E-05	0.000E+00	2.042E-01
196	0.000E+00	0.000E+00	2.292E-04	0.000E+00	1.785E-05	8.749E-06	1.430E-06	1.926E-05	0.000E+00	1.960E-01
197	0.000E+00	0.000E+00	1.955E-04	0.000E+00	1.167E-05	7.174E-06	1.200E-06	1.642E-05 9.678E-05	0.000E+00 0.000E+00	1.793E-01 4.455E-01
198 199	0.000E+00 0.000E+00	0.000E+00	1.153E-03 1.130E-03	0.000E+00 0.000E+00	5.171E-05 4.271E-05	4.213E-05 4.160E-05	6.992E-06 6.820E-06	9.487E-05	0.000E+00	3.932E-01
200	0.000E+00	0.000E+00	9.324E-04	0.000E+00	4.830E-05	3.412E-05	5.688E-06	7.831E-05	G.000E+00	3.427E-01
201 202	0.000E+00	0.000E+00	5.181E-04	0.000E+00	4.172E-05	1.919E-05	3.234E-06	4.354E-05	0.000E+00 0.000E+00	2.666E-01 2.350E-01
202 203	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.530E-04 2.931E-04	0.000E+00 0.000E+00	2.840E-05 2.472E-05	1.312E-05 1.096E-05	2.203E-06 1.836E-06	2.966E-05 2.463E-05	0.000E+00	2.262E-01
204	0.000E+00		2.421E-04	0.000E+00	2.472E-05 1.412E-05	8.903E-06	1.836E-06 1.485E-06	2.033E-05	0.000E+00	2.070E-01
205	0.000E+00	0.000E+00	1.974E-04	0.000E+00	1.053E-05	7.211E-06	1.205E-06	1.658E-05	0.000E+00 0.000E+00	1.831E-01 1.852E-01
206 207	0.000E+00 0.000E+00			0.000E+00 0.000E+00	9.649E-06 1.376E-05	6.966E-06 6.643E-06			0.000E+00	1.822E-01
208	0.000E+00		1.733E-05	0.000E+00	1.345E-06	6.478E-07	1.080E-07	1.456E-06	0.000E+00	2.610E-02
209	0.000E+00	0.000E+00	1.995E-05	0.000E+00	1.468E-06	7.399E-07	1.239E-07	1.676E-06	0.000E+00	2.782E-02
210	0.000E+00	0.000E+00 0.000E+00		0.000E+00 0.000E+00		8.678E-07 1.026E-06		1.974E-06 2.338E-06	0.000E+00 0.000E+00	3.472E-02 4.190E-02
211 212	0.000E+00				2.146E-06	1.232E-06	2.068E-07	2.821E-06	0.000E÷00	5.246E-02
213	0.000E+00						2.590E-07	3.542E-06	0.000E+00	6.743E-02

115   1.0000000   1.0000000   1.000000   1.000000   1.000000   1.000000   1.000000   1.000000   1.000000   1.000000   1.000000   1.000000   1.000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.0000000   1.00000000   1.00000000   1.00000000   1.00000000   1.0000000000	214	0.000E+00	0.000E+00	5.415E-05		3.090E-06		3.316E-07	4.548E-06	0.000E+00	8.204E-02
121 0 0.00000	215 216	0.000E+00 0.000E+00		7.011E-05 8.376E-05		3.805E-06 4.552E-06	2.543E-06 3.034E-06	4.283E-07 5.116E-07	5.888E-06 7.034E-06	0.000E+00 0.000E+00	9.015E-02 1.030E-01
121 0 0.0025-00 0 0.0025-00 1	217	0.000E+00	0.000E+00	9.695E-05	0.000E+00	5.013E-06	3.506E-06	5.909E-07	8.141E-06	0.000E+00	1.041E-01
1.000F-00   0.000F-00   0.00	219										
222   0.0007-00	220 221										
224 0 0.0000-00 0 0.0000-00 0 3.0000-00 1 4.0000-00 1	222	0.000E+00	0.000E+00	8.619E-05	0.000E+00	4.063E-06	3.110E-06	5.234E-07	7.236E-06	0.000E+00	8.812E-02
222 0 .0002-00 0 .0002-00 1 .0002	223 224										
227 0.00007-00 0.0007-00 1.0007-00 1.0007-00 1.0007-00 1.0007-00 0.0007-00 1	225	0.000E+00	0.000E+00	8.266E-05	0.000E+00	4.892E-06	2.9972-06	5.068E-07	6.942E-06	0.000E+00	8.064E-02
1.000E-00   0.000E-00   0.00	226										
200 0.0000-00 0.0000-00 1.555-0.0 0.0000-00 1.5000-00 1.	228	0.000E+00	0.000E+00	2.010E-05	0.000E+00	1.597E-06	7.532E-07	1.254E-07	1.689E-06	0.000E+00	3.064E-02
221 0.0002-00 0.0002-00 1.752-03 0.0002-00 1.752-03 0.0002-00 1.752-04	230										
231 0.0000-00 0.0000-00 1.0000-00 1.2000-00 1.	231						1.279E-06	2.143E-07			5.325E-02
223 0.00007-00 0.00007-00 1.2007-00	233	0.000E+00	0.000E+00	5.709E-05	0.000E+00	3.280E-06	2.079E-06	3.497E-07	4.795E-06	0.000E+00	8.948E-02
223 0 .0.000740 0 .0.000740 1 .1217-40 0 .0.000740 1 .7227-60 4 .1257-40 7 .0.162-47 0 .0.000740 1 .2017-40 1						4.127E-06 5.121E-06					1.052E-01
228 0 . 0.0028-00 1 . 0.0028-00 1 . 2287-04 0 . 0.0028-00 1 . 1.0028-01 0 . 0.0028-00 1 . 1.0028-01 1 . 0.0028-00	236	0.000E+00	0.0002+00	1.151E-04	0.000E+00	5.922E-06	4.163E-06	7.016 <b>E-</b> 07	9.668E-06	0.000E+00	1.230E-01
239 0 .000E+00 0 .000E+00 1 .15EE-04 0 .000E+00 3 .201E-05 1 .100E+01 1 .000E+01 0 .000E+00 1 .000E+01 1 .000E+01 0 .000E+00 1 .000E+01 0 .000E+00 1 .000E+01 0 .000E+00 1 .000E+01 0 .000E+01 0 .000E+00 1 .000E+01 0 .000E	237 238										
241 0.0002+00 0.0002+00 1.0562-04 0.0002+00 1.2532-06 1.4542-07 8.4472-06 0.0002+00 1.0562-04 1.0562-04 0.0002+00 1.2532-06 0.0002+00 1.0562-04 1.	239	0.000E+00	0.000E+00	1.196E-04	0.000E+00	6.203E-06	4.314E-06	7.288E-07	1.004E-05	0.000E+00	1.084E-01
244 0.002F00 0.002F00 1.007F00								6.466E-07			
244 0.00E+00 0.00E+00 1.00E+00 1.00E+00 1.20E+00 1.20E+00 1.30E+00 1.30E+00 7.8EE-00 7.8EE-00 7.8EE-00 1.20E+00 1.20E+00 1.30E+00 1.30E+00 1.20E+00 1.30E+00				1.056E-04			3.815E-06				
244 0.00EH00 0.00EH00 1.532E-05 0.00EH00 1.432E-06 1.52E-07 1.52E-07 1.22E-07 1.22E-07 0.00EH00 0.00EH00 1.79E-02 0.00EH	244	0.000E+00	0.000E+00	9.352E-05			3.396E-06		7.855E-06		9.037E-02
247 0.00E+00 0.00E+00 1.91E-05 0.00E+00 1.88E-06 1.8E-06 1.8E-06 1.8E-07 1.8E-07 1.8F-07 1.9F-06 0.00E+00 3.079E-02 2.8E-06 2.8E-07 1.8E-07 1.8E-07 1.8E-07 1.8E-07 1.8E-07 1.8E-07 1.8E-07 2.9E-07 2.8E-07 2.											
249 0.000E+00 0.000E+00 1.00E+00 2.77E-06 1.72E-06 1.72E-06 0.00E+00 4.312E-02 251 0.000E+00 1.00E+00 1.00E+00 2.77E-06 1.22E-06 1.72E-06 0.00E+00 1.00E+00 1.25E-02 252 0.000E+00 1.00E+00 1.00E+00 2.77E-06 1.22E-06 2.74E-07 3.02E-06 0.00E+00 1.00E+00 1.22E-02 253 0.00E+00 1.00E+00 1.00E+00 1.22E-05 0.00E+00 1.72E-06 0.00E+00 1.00E+00	247 .	0.000E+00	0.000E+00	1.915E-05	0.000E+00	1.68ZE-06	7.162E-07	1.202E-07	1.609E-06	0.000E+00	3.079E-02
250   0.00E+00   0.00E+00   3.592E-05   0.00E+00   2.477E-06   1.22E-06   2.14E-07   3.017E-06   0.00E+00   3.52E-02   3.00E+00   3.52E-02   3.00E+00   3.52E-02   3.00E+00											
252 0.000E+00 0.000E+00 1.000E+00 3.473E-05 0.00E+00 4.00E+00 1.00E+00 1.24ZE-01 1.24ZE-01 0.00E+00 1.00E+00 1.14ZE-01 0.00E+00	250	0.000E+00	0.000E+00	3.580E-05	0.000E+00	2.477E-06	1.322E-06	2.214E-07	3.007E-06	0.000E+00	5.625E-02^
253 0.0002+00 0.0005+00 1.005+00 1.1575-04 0.0005+00 7.782F-06 6.82E-07 9.394F-06 0.0005+00 1.432F-01 2.55 0.0005+00 0.0005+00 1.548F-01 0.0005+00 7.782F-06 6.82E-07 9.394F-06 0.0005+00 1.432F-01 2.55 0.0005+00 0.0005+00 1.548F-01 0.0005+00 7.782F-06 9.582F-07 1.332F-05 0.0005+00 1.432F-01 2.55 0.0005+00 0.0005+00 1.548F-01 0.0005+00 7.782F-06 9.582F-07 1.332F-05 0.0005+00 1.432F-01 2.55 0.0005+00 0.0005+00 1.432F-01 0.0005+00 0.000	251 252										
255 0.0002+00 0.0002+00 1.487E-01 1.497E-02 0.0002+00 7.190E-05 0.484E-06 8.334E-07 1.337E-05 0.0002+00 1.487E-01 1.357E-01 1.377E-05 0.0002+00 1.367E-04 0.0002+00 1.367E-04 0.0002+00 1.367E-04 0.0002+00 1.367E-04 0.0002+00 1.367E-04 0.0002+00 1.357E-01 1.377E-05 0.0002+00 1.367E-04 0.0002+00 1.	253	0.000E+00	0.000E+00	8.325E-05	0.000E+00	4.481E-06	3.023E-06	5.084E-07	6.991E-06	0.000E+00	1.242E-01
256 0.000E+00 0.000E+00 1.584E-04 0.000E+00 7.785E-06 9.637E-07 1.332E-05 0.000E+00 1.357E-01 1.357E-01 1.335E-01 1.	254 255				0.000E+00 0.000E+00						1.430E-01 1.489E-01
259 0.000E+00 0.000E+00 1.490E-04 0.000E+00 7.459E-06 5.37ZE-06 9.066E-07 1.7ZE-05 0.000E+00 1.335E-01 1.251E-01 0.000E+00 1.305E-04 0.000E+00 1.30E-01 1.30	256	0.000E+00	0.000E+00	1.584E-04	0.000E+00	7.785E-06	5.721E-06	9.637E-07	1.330E-05	0.000E+00	1.449E-01
259   0.00EP-00   0.00EP-00   1.36EP-04   0.00EP-00   6.42ZP-06   5.034ZP-06   8.46TP-07   1.17IZ-05   0.00EP-00   1.3IZE-01											
261 0.000E+00 0.000E+00 1.151E-04 0.000E+00 6.823E-06 4.621E-06 7.799E-07 1.07E-05 0.000E+00 1.03E-01 1.03E-01 1.03E-01 0.000E+00 1.03E-01 1.03E-01 0.00E+00 1.03E-01 1.03E-01 0.00E+00 1.03E-01 0.00E+00 1.03E-01 1.00E+00 1.03E-01				1.396E-04			5.034E-06		1.172E-05	0.000E+00	1.311E-01
264   0.0002+00   0.0002+00   1.019E-04   0.0002+00		0.000E+00	0.000E+00	1.278E-04					1.073E-05		
265   0.000E+00   0.000E+00   1.537E-05   0.000E+00   1.42E-05   5.398E-07   7.249E-06   0.000E+00   7.167E-02											
266 0.000E+00 0.000E+00 1.81ZE-05 0.000E+00 1.93ZE-06 8.84E-07 1.141E-07 1.87ZE-06 0.00E+00 3.74LE-02 2.83BE-07 0.00DE+00 1.93ZE-06 8.34SE-07 1.400E-07 1.87ZE-06 0.00DE+00 3.74LE-02 2.80DE+00 0.00DE+00 2.29SE-06 1.93ZE-06 1.740DE-07 2.33ZE-06 0.00DE+00 5.78AE-02 2.70 0.00DE+00 0.00DE+00 6.36GE-05 0.00DE+00 3.00DE+00 6.30DE+00 6.30DE+0	264	0.000E+00	0.000E+00	8.631E-05	0.000E+00	5.178E-06	3.137E-06	5.296E-07	7.249E-06		
268 0.000E+00 0.000E+00 2.331E-05 0.000E+00 1.348E-07 1.052E-06 1.749E-07 2.353E-06 0.000E+00 3.741E-02 2.599E-05 1.000E+00 1.749E-07 2.353E-06 0.000E+00 5.784E-02 2.599E-06 1.749E-07 2.353E-06 0.000E+00 5.784E-02 2.599E-07 2.353E-06 0.00E+00 5.784E-02 2.599E-07 2.553E-06 0.00E+00									1.311E-06		2.656E-02
269 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.368E-05 0.000E+00 0.368E-06 1.336E-06 2.237E-07 3.335E-06 0.000E+00 0.578AE-02 271 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.378ZE-06 0.378ZE-06 2.382E-06 3.896E-07 3.33ZE-06 0.000E+00 1.12ZE-01 0.000E+00 0.000	267	0.000E+00	0.000E+00	2.231E-05	0.000E+00	1.934E-06	8.348E-07	1.400E-07	1.875E-06	0.000E+00	3.741E-02
271 0.000E+00 0.000E+00 0.000E+00 0.3 0.58E-06 2.122E-06 2.289E-07 3.393E-06 0.000E+00 1.12E-01 272 0.000E+00 0.000E+00 1.32EE-04 0.000E+00 0.539E-06 0.000E+00 0.000E+00 1.32EE-04 0.000E+00 0.539E-06 0.000E+00 0.000E+00 1.32EE-04 0.000E+00 0.72E-05 0.000E+00 0.72E-05 0.000E+00 1.73EE-01 0.000E+00 1.73EE-01 0.000E+00 1.32EE-04 0.000E+00 1.103E-05 0.000E+00 1.73EE-01 0.000E+00 1.73EE-0											
272 0.000E+00 0.000E+00 1.325E-04 0.000E+00 4.834E-06 3.288E-06 5.520E-07 7.593E-06 0.000E+00 1.736E-01 274 0.000E+00 0.000E+00 0.00E+00 0.00E+00 1.325E-04 0.000E+00 1.103E-05 6.600E-06 1.096E-06 1.497E-05 0.000E+00 1.85E-01 275 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 1.05E-05 0.00E+00 1.736E-01 1.736E-01 1.746E-01 0.00E+00 0.00E	270	0.000E+00	0.000E+00	4.68SE-05	0.000E+00	3.058E-06	1.726E-06%	2.889E-07	3.935E-06	0.000E+00	7.618E-02
273 0.000E+00 0.000E+00 1.732E-04 0.000E+00 1.03E-05 6.60E-06 1.09E-06 1.473E-05 0.000E+00 1.35E-01 275 0.000E+00 0.000E+00 2.072E-04 0.000E+00 1.03E-05 6.60E-06 1.09E-06 1.479E-05 0.000E+00 1.35E-01 275 0.000E+00 0.00E+00 0.00E+00 1.06E-06 1.072E-05 7.566E-06 1.263E-06 1.740E-05 0.00E+00 1.746E-01 1.74E-01 0.00E+00	271										
275 0.000E+00 0.000E+00 1.062E-04 0.00E+00 1.07E-05 7.566E-06 1.263E-06 1.746E-05 0.000E+00 1.748E-01 277 0.000E+00 0.000E+00 0.00E+00 1.962E-04 0.00E+00 9.099E-06 7.074E-06 1.191E-06 1.571E-05 0.000E+00 1.762E-01 279 0.000E+00 0.00E+00 1.35E-04 0.000E+00 1.35E-04 0.00E+00 1.54E-01 1.73E-01 0.00E+00 0.00E+00 0.00E+00 1.762E-01 0.00E+00 0.00E+0	273	0.000E+00	0.000E+00	1.325E-04	0.000E+00	6.723E-06	4.813E-06	8.072E-07	1.113E-05	0.000E+00	1.730E-01
276 0.000E+00 0.000E+00 1.942E-04 0.000E+00 1.017E-05 7.457E-06 1.257E-06 1.736E-05 0.000E+00 1.762E-01 278 0.000E+00 0.000E+00 1.848E-04 0.000E+00 8.355E-06 6.666E-06 1.191E-06 1.657E-05 0.000E+00 1.556E-01 280 0.000E+00 1.000E+00 1.73E-04 0.000E+00 1.848E-04 0.000E+00 1.359E-01 0.000E+00 1.359E-01 0.000E+00 1.359E-01 0.000E+00 1.359E-01 0.000E+00 1.359E-01 0.000E+00 1.259E-04 0.000E+00 1.259E-04 0.000E+00 1.259E-04 0.000E+00 1.259E-01 0.000E+00 0.000E+00 1.259E-01 0.000E+00 1.259E-01 0.000E+00 0.000						1.0625-05					
278 0.000E+00 0.000E+00 1.348E-04 0.000E+00 8.35E-06 6.666E-06 1.055E-06 1.055E-05 0.000E+00 1.35PE-01 280 0.000E+00 0.000E+00 1.494E-04 0.000E+00 8.644E-06 6.26E-06 1.055E-06 1.35TE-05 0.000E+00 1.29E-01 281 0.000E+00 0.000E+00 1.494E-04 0.000E+00 8.85E-06 5.42E-06 7.819E-07 1.05FE-05 0.000E+00 1.202E-01 282 0.000E+00 0.000E+00 1.05ZE-04 0.000E+00 6.278E-06 8.85E-06 5.42E-06 7.819E-07 1.05FE-05 0.000E+00 1.202E-01 282 0.000E+00 0.000E+00 1.05ZE-04 0.000E+00 6.278E-06 3.859E-06 6.514E-07 8.921E-06 0.000E+00 1.202E-01 283 0.000E+00 0.000E+00 1.59ZE-05 0.000E+00 4.89ZE-06 1.080E-06 5.14E-07 7.12E-06 0.000E+00 1.107E-01 285 0.000E+00 0.000E+00 1.59ZE-05 0.000E+00 1.75E-06 6.009E-07 1.00SE-07 1.339E-06 0.000E+00 2.349E-02 285 0.000E+00 0.000E+00 1.59ZE-05 0.000E+00 1.75E-06 7.063E-07 1.174E-07 1.563ZE-06 0.000E+00 2.349E-02 286 0.000E+00 0.000E+00 2.217E-05 0.000E+00 1.75E-06 8.401E-07 1.391E-07 1.339E-06 0.000E+00 2.349E-02 287 0.000E+00 0.000E+00 2.756ZE-05 0.000E+00 1.75E-06 8.401E-07 1.391E-07 1.353ZE-06 0.000E+00 3.724E-02 287 0.000E+00 0.000E+00 2.756ZE-05 0.000E+00 1.75E-06 8.401E-07 1.391E-07 1.353ZE-06 0.000E+00 3.724E-02 289 0.000E+00 0.000E+00 4.701E-05 0.000E+00 3.728E-06 1.331ZE-06 2.185ZE-07 2.48E-06 0.000E+00 4.743ZE-02 289 0.000E+00 0.000E+00 4.701E-05 0.000E+00 3.278E-06 1.331ZE-06 2.185ZE-07 2.48E-06 0.000E+00 4.746ZE-01 291 0.000E+00 0.000E+00 4.701E-05 0.000E+00 5.237ZE-06 1.331ZE-06 1.331ZE-07 3.349ZE-06 0.000E+00 1.187ZE-01 291 0.000E+00 0.000E	276		0.000E+00	2.067E-04	0.000E+00	1.017E-05	7.457E-06	1.257E-06	1.736Z-05		1.664E-01
280 0.000E+00 0.000E+00 1.273E-04 0.000E+00 7.84E-06 4.52IE-06 7.162E-07 1.255E-05 0.000E+00 1.202E-01 282 0.000E+00 0.000E+00 1.052E-04 0.000E+00 7.84E-06 4.52IE-06 7.819E-07 1.069E-05 0.000E+00 1.107E-01 283 0.000E+00 0.00E+00 1.062E-04 0.000E+00 4.878E-06 1.859E-06 6.514E-07 8.92IE-06 0.000E+00 1.107E-01 283 0.000E+00 0.00E+00 1.593E-05 0.000E+00 4.879E-05 1.00SE-07 1.339E-06 0.00E+00 0.00E+00 1.593E-05 0.000E+00 1.488E-06 6.09E-07 1.00SE-07 1.339E-06 0.00E+00 2.349E-02 285 0.000E+00 0.00E+00 1.859E-05 0.000E+00 1.758E-06 7.068E-07 1.174E-07 1.563E-06 0.00E+00 2.349E-02 287 0.00E+00 0.00E+00 2.277E-05 0.00E+00 1.99SE-06 8.40IE-07 1.39IE-07 1.339E-06 0.00E+00 3.09E-02 287 0.00E+00 0.00E+00 2.756E-05 0.00E+00 1.99SE-06 8.40IE-07 1.39IE-07 1.36SE-06 0.00E+00 3.09E-02 288 0.00E+00 0.00E+00 2.756E-05 0.00E+00 2.239E-06 1.029E-06 8.40IE-07 2.316E-06 0.00E+00 3.79XE-02 289 0.00E+00 0.00E+00 4.70IE-05 0.00E+00 3.28E-06 1.315E-06 2.89SE-07 3.99SE-07 3.99SE-06 0.00E+00 0.00E+00 4.70IE-05 0.00E+00 4.70IE-05 0.00E+00 4.08IE-06 2.419E-06 4.53SE-07 5.537E-06 0.00E+00 8.209E-02 290 0.00E+00 0.00E+00 9.917E-05 0.00E+00 4.08IE-06 2.419E-06 4.53SE-07 3.99SE-07 3.99SE-06 0.00E+00 0.00E+00 0.00E+00 9.917E-05 0.000E+00 1.28IE-06 2.419E-06 4.53SE-07 8.3SE-06 0.00E+00 1.794E-01 293 0.00E+00 0.00E+00 0.00E+00 0.3SEE-04 0.00E+00 1.44E-04 0.00E+00 1.44E-05 6.237E-06 1.44E-07 8.3SEE-06 0.00E+00 1.3SEE-01 1.37E-01 293 0.00E+00 0.00E+00 0.3SEE-04 0.00E+00 1.48E-06 0.00E+00 1.3SEE-01 1.49E-01 293 0.00E+00 0.00E+00 0.3SEE-04 0.00E+00 1.3SEE-06 0.00E+00 1.3SEE-06 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.3SEE-06 0.00E+00 0.00E+0	278	0.000E+00	0.000E+00	1.848E-04	0.000E+00	8.355E-06	6.566E-06	1.120E-06	1.551E-05	0.000E+00	1.546E-01
281 0.000E+00 0.000E+00 1.052E-04 0.000E+00 6.278E-06 3.85PE-06 6.51AE-07 7.121E-06 0.000E+00 1.107E-01 283 0.00E+00 0.00E+00 1.593E-05 0.000E+00 1.498E-06 3.85PE-06 6.13AE-07 7.121E-06 0.000E+00 9.651E-02 284 0.00E+00 0.00E+00 1.593E-05 0.00E+00 1.498E-06 6.009E-07 1.00SE-07 7.121E-06 0.00E+00 9.651E-02 285 0.00E+00 0.00E+00 1.593E-05 0.00E+00 1.758E-06 7.063E-07 1.00SE-07 1.339E-06 0.00E+00 0.00E+00 2.349E-02 286 0.00E+00 0.00E+00 0.00E+00 1.756E-05 0.00E+00 1.758E-06 7.063E-07 1.37E-07 1.563E-06 0.00E+00 3.724E-02 287 0.00E+00 0.00E+00 3.508E-05 0.00E+00 2.739E-06 1.029E-06 1.722E-07 2.316E-06 0.00E+00 3.724E-02 288 0.000E+00 0.00E+00 3.508E-05 0.00E+00 2.708E-06 1.335E-06 2.185E-07 2.948E-06 0.000E+00 3.724E-02 289 0.00E+00 0.00E+00 6.592E-05 0.00E+00 3.728E-06 1.736E-06 2.498E-07 2.948E-06 0.000E+00 3.299E-02 290 0.00E+00 0.00E+00 6.592E-05 0.000E+00 3.278E-06 1.736E-06 2.498E-07 3.949E-06 0.000E+00 3.299E-02 290 0.00E+00 0.00E+00 0.592E-05 0.000E+00 3.278E-06 1.736E-06 2.498E-07 3.949E-06 0.000E+00 3.299E-02 290 0.00E+00 0.00E+00 0.592E-05 0.000E+00 3.278E-06 1.736E-06 0.00E+00											
283	281	0.000E+00	0.000E+00	1.273E-04	0.000E+00	7.848E-06	4.621E-06	7.819E-07	1.069E-05	0.000E+00	1.202E-01
284 0.000E+00 0.000E+00 1.593E-05 0.000E+00 1.498E-06 6.09E-07 1.005E-07 1.563E-06 0.000E+00 3.79E-02 286 0.000E+00 0.000E+00 2.217E-05 0.000E+00 1.905E-06 8.401E-07 1.391E-07 1.563E-06 0.000E+00 3.724E-02 287 0.000E+00 0.000E+00 2.217E-05 0.000E+00 1.905E-06 8.401E-07 1.391E-07 1.563E-06 0.000E+00 3.724E-02 288 0.000E+00 0.000E+00 3.508E-05 0.000E+00 2.239E-06 1.029E-06 1.722E-07 2.316E-06 0.000E+00 4.743E-02 289 0.000E+00 0.000E+00 4.701E-05 0.000E+00 3.278E-06 1.315E-06 2.185E-07 2.948E-06 0.000E+00 4.743E-02 289 0.000E+00 0.000E+00 4.701E-05 0.000E+00 3.278E-06 1.736E-06 2.185E-07 2.948E-06 0.000E+00 8.209E-02 290 0.000E+00 0.000E+00 4.701E-05 0.000E+00 3.278E-06 1.736E-06 2.185E-07 3.949E-06 0.000E+00 8.209E-02 291 0.000E+00 0.000E+00 9.917E-05 0.000E+00 0.228E-06 1.736E-06 4.033E-07 5.37E-06 0.000E+00 1.87E-01 291 0.000E+00 0.000E+00 9.917E-05 0.000E+00 5.281E-06 3.605E-06 6.054E-07 8.328E-06 0.000E+00 1.794E-01 293 0.000E+00 0.000E+00 1.671E-04 0.000E+00 1.40E-05 6.237E-06 1.048E-06 1.408E-05 0.000E+00 1.794E-01 293 0.000E+00 0.000E+00 1.354E-04 0.000E+00 1.109E-03 8.556E-06 1.432E-06 1.980E-05 0.000E+00 2.159E-01 294 0.000E+00 0.000E+00 1.354E-04 0.000E+00 1.1354E-01 295 0.000E+00 0.000E+00 0.000E+00 1.354E-01 0.000E+00 0.000E+0				1.062E-04 8.479E-05					8.921E-06 7.121E-06		
286	284	0.000E+00	0.000E+00	1.593E-05	0.000E+00	1.498E-06	6.009E-07	1.00SE-07	1.339E-06	0.000E+00	2.349E-02
287 0.000E+00 0.000E+00 0.000E+00 3.508E-05 0.000E+00 2.239E-06 1.315E-06 2.185E-07 2.948E-06 0.000E+00 0.000E+00 3.508E-05 0.000E+00 3.278E-06 1.315E-06 2.185E-07 2.948E-06 0.000E+00 8.209E-02 290 0.000E+00 0.000E+0								1.391E-07			
289	287	0.000E+00	0.000E+00	2.756E-05	0.000E+00	2.239E-06	1.0298-06	1 7225-07	2.316E-06	0.000E+00	4.743E-02
290 0.00E+00 0.00E+00 0.00E+00 9.917E-05 0.00E+00 4.081E-06 2.419E-06 6.054E-07 8.328E-06 0.00E+00 1.794E-01 292 0.000E+00 0.00E+00 1.671E-04 0.00E+00 1.440E-05 6.237E-06 1.048E-06 1.404E-05 0.00E+00 2.159E-01 293 0.00E+00 0.00E+00 1.354E-04 0.00E+00 1.440E-05 6.237E-06 1.048E-06 1.404E-05 0.00E+00 2.354E-01 294 0.00E+00 0.00E+00 1.354E-04 0.00E+00 1.39E-06 4.911E-06 8.295E-07 1.137E-05 0.00E+00 1.354E-01 295 0.00E+00 0.00E+00 1.354E-04 0.00E+00 7.879E-06 4.911E-06 8.295E-07 1.137E-05 0.00E+00 1.358E-01 295 0.00E+00 0.00E+00 1.354E-04 0.00E+00 7.879E-06 4.911E-06 8.295E-07 1.137E-05 0.00E+00 1.154E-01 295 0.00E+00 0.00E+00 1.48E-05 0.00E+00 4.383E-06 6.338E-07 8.767E-06 0.00E+00 1.154E-01 297 0.00E+00 0.00E+00 1.48E-05 0.00E+00 4.383E-06 2.830E-06 4.773E-07 6.552E-06 0.00E+00 9.029E-02 298 0.00E+00 0.00E+00 1.48E-05 0.00E+00 1.736E-06 6.570E-07 1.104E-07 1.464E-06 0.00E+00 2.696E-02 299 0.000E+00 0.00E+00 2.128E-05 0.00E+00 1.736E-06 6.570E-07 1.104E-07 1.799E-06 0.00E+00 2.620E-02 299 0.000E+00 0.00E+00 2.128E-05 0.00E+00 2.355E-06 8.076E-07 1.350E-07 1.799E-06 0.00E+00 3.583E-02 301 0.00E+00 0.00E+00 2.128E-05 0.00E+00 2.355E-06 9.892E-07 1.644E-07 2.196E-06 0.00E+00 3.583E-02 301 0.00E+00 0.00E+0				4.701E-05		3.278E-06	1.736E-06	2.103E-07 2.909E-07	3.949E-06	0.000E+00	
293	290		0.000E+00	6.592E-05	0.000E+00	4.081E-06	2.419E-06	4.053E-07	5.537E-06	0.000E+00	1.187E-01
293	292	0.000E+00	0.000E+00	1.671E-04	0.000E+00	1.440E-05	6.237E-06	1.048E-06	1.404E-05	0.000E+00	2.159E-01
295	293 294			2.358E-04	0.000E÷00	1.109E-05	8.556 <b>Z-</b> 06		1.980E-05		
297 0.000E+00 0.000E+00 1.438E-05 0.000E+00 1.42E-06 5.428E-07 9.111E-08 1.209E-06 0.000E+00 2.096E-02 2.998 0.000E+00 0.000E+00 1.742E-05 0.000E+00 1.736E-06 6.570E-07 1.104E-07 1.464E-06 0.000E+00 2.60E-02 2.998 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.742E-06 8.076E-07 1.350E-07 1.350E-06 0.000E+00 0.	295	0.000E+00	0.000E+00	1.044E-04	0.000E+00	5.862E-06	3.787E-06	6.386E-07	8.767E-06	0.000E+00	1.154E-01
298	296 297			7.802E-05		4.383E-06	2.830E-06	4.773E-07			
300 0.000E+00 0.000E+00 2.612E-05 0.000E+00 2.355E-06 9.892E-07 1.644E-07 2.196E-06 0.000E+00 4.698E-02 301 0.000E+00 0.000E+00 3.393E-05 0.000E+00 2.716E-06 1.266E-06 2.118E-07 2.851E-06 0.000E+00 6.375E-02 302 0.000E+00 0.000E+00 4.650E-05 0.000E+00 3.310E-06 1.728E-06 2.882E-07 3.906E-06 0.000E+00 6.575E-02 303 0.000E+00 0.000E+00 6.761E-05 0.000E+00 4.276E-06 2.480E-06 4.161E-07 5.679E-06 0.000E+00 1.295E-01 304 0.000E+00 0.000E+00 1.069E-04 0.000E+00 5.879E-06 3.895E-06 6.537E-07 8.980E-06 0.000E+00 2.189E-01 305 0.000E+00 0.000E+00 1.960E-04 0.000E+00 9.456E-06 7.192E-06 1.193E-06 1.646E-05 0.000E+00 2.860E-01 306 0.000E+00 0.000E+00 1.367E-04 0.000E+00 7.167E-06 4.953E-06 3.337E-06 3.335E-07 1.148E-05 0.000E+00 1.416E-01 307 0.000E+00 0.000E+00 9.764E-05 0.000E+00 5.124E-06 3.537E-06 5.956E-07 8.200E-06 0.000E+00 1.075E-01 308 0.000E+00 0.000E+00 7.232E-05 0.000E+00 5.174E-06 4.577E-07 7.555E-08 9.845E-07 0.000E+00 8.307E-02 309 0.000E+00 0.000E+00 1.170E-05 0.000E+00 1.420E-06 4.577E-07 7.555E-08 9.845E-07 0.000E+00 2.298E-02	298	0.000E+00	0.000E+00	1.742E-05	0.000E+00	1.736E-06	6.570E-07	1.104E-07	1.464E-06	0.000E+00	2.620E-02
301 0.000E+00 0.000E+00 4.650E-05 0.000E+00 2.716E-06 1.266E-06 2.118E-07 2.851E-06 0.000E+00 6.373E-02 302 0.000E+00 0.000E+00 4.650E-05 0.000E+00 3.310E-06 1.728E-06 2.882E-07 3.906E-06 0.000E+00 0.000E+00 0.000E+00 4.276E-06 2.480E-06 4.161E-07 5.679E-06 0.000E+00 1.295E-01 304 0.000E+00 0.000E+00 1.069E-04 0.000E+00 5.879E-06 3.895E-06 6.537E-07 8.980E-06 0.000E+00 2.189E-01 305 0.000E+00 0.000E+00 1.960E-04 0.000E+00 9.456E-06 7.192E-06 1.193E-06 1.646E-05 0.000E+00 2.880E-01 306 0.000E+00 0.000E+00 1.367E-04 0.000E+00 9.456E-06 7.192E-06 1.193E-06 1.646E-05 0.000E+00 2.860E-01 306 0.000E+00 0.000E+00 1.367E-04 0.000E+00 9.765E-06 4.953E-06 8.336E-07 1.148E-05 0.000E+00 1.416E-01 307 0.000E+00 0.000E+00 9.765E-05 0.000E+00 5.124E-06 3.537E-06 5.956E-07 8.200E-06 0.000E+00 1.075E-01 308 0.000E+00 0.000E+00 7.232E-05 0.000E+00 5.174E-06 2.618E-06 4.410E-07 6.073E-06 0.000E+00 8.307E-02 309 0.000E+00 0.000E+00 1.170E-05 0.000E+00 1.420E-06 4.577E-07 7.555E-08 9.845E-07 0.000E+00 2.298E-02				2.128E-05		2.134E-06	8.076E-07	1.350E-07	1.789E-06 2.196E-06	0.000E+00	3.583E-02 4.698E-02
303 0.000E+00 0.000E+00 6.761E-05 0.000E+00 4.276E-06 2.480E-06 4.161E-07 5.679E-06 0.000E+00 1.295E-01 304 0.000E+00 0.000E+00 1.069E-04 0.000E+00 5.879E-06 3.895E-06 6.537E-07 8.980E-06 0.000E+00 0.000E+0	301	0.000E+00	0.000E+00	3.393E-05	0.000E+00	2.716E-06	1.266E-06	2.118E-07	2.851E-06	0.000E+00	6.375E-02
304 0.000E+00 0.000E+00 1.069E-04 0.000E+00 5.879E-06 3.895E-06 6.537E-07 8.980E-06 0.000E+00 2.189E-01 305 0.000E+00 0.000E+00 1.960E-04 0.000E+00 9.456E-06 7.192E-06 1.193E-06 1.646E-05 0.000E+00 2.860E-01 306 0.000E+00 0.000E+00 1.367E-04 0.000E+00 7.167E-06 4.953E-06 8.336E-07 1.148E-05 0.000E+00 1.416E-01 307 0.000E+00 0.000E+00 9.765E-05 0.000E+00 5.124E-06 3.537E-06 5.956E-07 8.200E-06 0.000E+00 1.075E-01 308 0.000E+00 0.000E+00 7.232E-05 0.000E+00 5.774E-06 2.618E-06 4.410E-07 6.73E-06 0.000E+00 8.307E-02 309 0.000E+00 0.000E+00 1.170E-05 0.000E+00 1.420E-06 4.577E-07 7.555E-08 9.845E-07 0.000E+00 2.298E-02											
306 0.000E+00 0.000E+00 1.367E-04 0.000E+00 7.167E-06 4.953E-06 8.336E-07 1.148E-05 0.000E+00 1.416E-01 307 0.000E+00 0.000E+00 9.763E-05 0.000E+00 5.124E-06 3.537E-06 5.956E-07 8.200E-06 0.000E+00 1.073E-01 308 0.000E+00 0.000E+00 7.232E-05 0.000E+00 3.774E-06 2.618E-06 4.410E-07 6.073E-06 0.000E+00 8.307E-02 309 0.000E+00 0.000E+00 1.170E-05 0.000E+00 1.420E-06 4.577E-07 7.555E-08 9.845E-07 0.000E+00 2.298E-02	304	0.000E+00	0.000E+00	1.069E-04	0.000E+00	5.879E-06	3.895E-06	6.537E-07	8.980E-06	0.000E+00	2.189E-01
307 0.000E+00 0.000E+00 9.765E-05 0.000E+00 5.124E-06 3.537E-06 5.956E-07 8.200E-06 0.000E+00 1.075E-01 308 0.000E+00 0.000E+00 7.232E-05 0.000E+00 3.774E-06 2.618E-06 4.410E-07 6.073E-06 0.000E+00 8.307E-02 309 0.000E+00 0.000E+00 1.170E-05 0.000E+00 4.20E-06 4.577E-07 7.555E-08 9.845E-07 0.000E+00 2.298E-02								1.193E-06 8.336E-07			
309 0.000E+00 0.000E+00 1.170E-05 0.000E+00 1.420E-06 4.577E-07 7.555E-08 9.845E-07 0.000E+00 2.298E-02	307	0.000E+G0	0.000E+00	9.765E-05	0.000E+00	5.124E-06	3.537E-06	5.956E-07	8.200E-06	0.000E+00	1.075E-01
310 0.000E+00 0.000E+00 1.460E-05 0.000E+00 1.583E-06 5.600E-07 9.323E-08 1.227E-06 0.000E+00 2.628E-02	309	0.000E+00	0.000E+00			1.420E-06	4.577E-07	7.555E-08	9.845E-07		2.298E-02
	310	0.000E+00	0.000E+00				5.600E-07	9.323E-08		0.000E+00	2.628E-02

311	0.000E+00	0.000E+00	1.850E-05	0.000E+00	1.871E-06	7.024E-07	1.174E-07	1.555E-06		3.233E-02
312 313	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.375E-05 3.088E-05	0.000E+00 0.000E+00	2.274E-06 2.780E-06	8.949E-07 1.162E-06	1.501E-07 1.943E-07	1.997E-06 2.596E-06	0.000E+00 0.000E+00	4.381E-02 6.128E-02
314 315	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.288E-05	0.000E+00	3.421E-06 4.499E-06	1.595E-06 2.351E-06	2.675E-07 3.945E-07	3.603E-06 5.352E-06	0.000E+00 0.000E+00	9.220E-02 1.426E-01
316	0.000E+00	0.000E+00	6.370E-05 1.068E-04	0.000E+00 0.000E+00	6.308E-06	3.898E-06	6.551E-07	8.971E-06	0.000E+00	2.752E-01
317 318	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.344E-04 1.252E-04	0.000E+00 0.000E+00	1.033E-05 6.429E-06	8.511E-06 4.546E-06	1.421E-06 7.631E-07	1.968E-05 1.051E-05	0.000E+00 0.000E+00	4.466E-01 1.356E-01
319	0.000E+00	0.000E+00	8.532E-05	0.000E+00	4.497E-06	3.092E-06	5.205E-07	7.164E-06 5.349E-06	0.000E+00 0.000E+00	1.031E-01
320 321	0.000E+00 0.000E+00	0.000E+00 0.000E+00	6.370E-05 1.008E-05	0.000E+00 0.000E+00	3.384E-06 1.345E-06	2.304E-06 3.958E-07	3.887E-07 6.567E-08	8.483E-07	0.000E+00	8.254E-02 2.218E-02
322 323	0.000E+00 0.000E+00	0.000E+00	1.209E-05	G.000E+00	1.682E-06 1.810E-06	4.822E-07 5.773E-07	7.917E-08 9.454E-08	1.018E-06 1.229E-06	0.000E+00 0.000E+00	2.735E-02 3.250E-02
324	0.000E+00	0.000E+00 0.000E+00	1.461E-05 1.858E-05	0.000E+00 0.000E+00	1.983E-06	7.148E-07	1.186E-07	1.563E-06	0.000E+00	3.948E-02
325 326	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.528E-05 3.581E-05	0.000E+00 0.000E+00	2.440E-06 3.289E-06	9.556E-07 1.343E-06	1.599E-07 2.256E-07	2.125E-06 3.010E-06	0.000E+00 0.000E+00	5.477E-02 8.874E-02
327	0.000E+00	0.000E+00	5.399E-05	0.000E+00	4.283E-06	2.001E-06	3.367E-07	4.537E-06	0.000E+00	1.550E-01
328 329	0.000E+00 0.000E+00	0.000E+00 0.000E+00	9.433E-05 2.350E-04	0.000E+00 0.000E+00	6.522E-06 1.141E-05	3.473E-06 8.543E-06	5.834E-07 1.429E-06	7.924E-06 1.973E-05	0.000E+00 0.000E+00	3.502E-01 1.024E+00
330 331	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.074E-04 7.804E-05	0.000E+00 0.000E+00	5.332E-06 4.060E-06	3.883E-06 2.819E-06	6.538E-07 4.758E-07	9.021E-06 6.553E-06	0.000E+00 0.000E+00	1.270E-01 9.301E-02
332	0.000E+00	0.000E+00	6.161E-05	0.000E+00	3.289E-06	2.225E-06	3.760E-07	5.173E-06	0.000E+00	6.892E-02
333 334	0.000E+00 0.000E+00	0.000E+00 0.000E+00	9.424E-06 1.092E-05	0.000E+00 0.000E+00	9.118E-07 1.070E-06	3.725E-07 4.127E-07	5.977E-08 6.916E-08	7.922E-07 9.183E-07	0.000E+00 0.000E+00	1.470E-02 1.973E-02
335 336	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.297E-05 1.595E-05	0.000E+00 0.000E+00	1.320E-06 1.699E-06	4.932E-07 6.105E-07	8.238E-08 1.017E-07	1.090E-06 1.341E-06	0.000E+00 0.000E+00	2.751E-02 3.814E-02
337	0.000E+00	0.000E+00	2.042E-05	0.000E+00	2.301E-06	7.907E-07	1.309E-07	1.717E-06	0.000E+00	5.241E-02
338 339	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.742E-05 4.256E-05	0.000E+00 0.000E+00	2.914E-06 4.075E-06	1.053E-06 1.604E-06	1.749E-07 2.690E-07	2.306E-06 3.577E-06	0.000E+00 0.000E+00	7.478E-02 1.309E-01
340	0.000E+00	0.000E+00	7.692E-05	0.000E+00	6.251E-06	2.863E-06	4.805E-07	6.464E-06 2.461E-05	0.000E+00 0.000E+00	3.583E-01 2.552E-01
341 342	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.932E-04 1.417E-04	0.000E+00 0.000E+00	1.258E-05 6.914E-06	1.074E-05 5.122E-06	1.776E-06 8.614E-07	1.189E-05	0.000E+00	1.558E-01
343 344	0.000E+00 0.000E+00	0.000E+00 0.000E+00	9.534E-05 7.109E-05	0.000E+00 0.000E+00	4.929E-06 3.780E-06	3.442E-06 2.567E-06	5.810E-07 4.338E-07	8.005E-06 5.970E-06	0.000E+00 0.000E+00	1.045E-01 7.842E-02
345	0.000E+00	0.000E+00	5.531E-05	0.000E+00	2.998E-06	1.998E-06	3.377E-07	4.645E-06	0.000E+00	6.510E-02
346 347	0.000E+00 0.000E+00	0.000 <del>E+00</del> 0.000E+00	8.469E-06 9.549E-06	0.000E+00 0.000E+00	1.211E-06 1.128E-06	3.354E-07 3.828E-07	5.558E-08 6.159E-08	7.128E-07 8.032E-07	0.000E+00 0.000E+00	1.281E-02 1.499E-02
348	0.000E+00	0.000E+00	1.122E-05	0.000E+00	1.191E-06	4.331E-07	7.155E-08 8.584E-08	9.433E-07 1.142E-06	0.000E+00 0.000E+00	1.813E-02 2.341E-02
349 350	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.358E-05 1.717E-05	0.000E+00 0.000E+00	1.286E-06 1.504E-06	5.186E-07 6.492E-07	1.079E-07	1.443E-06	0.000E+00	3.398E-02
351 352	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.296E-05 3.419E-05	0.000E+00 0.000E+00	1.945E-06 2.941E-06	8.611E-07 1.276E-06	1.438E-07 2.144E-07	1.929E-06 2.873E-06	0.000E+00 0.000E+00	5.623E-02 9.998E-02
353	0.000E+00	0.000E+00	5.724E-05	0.000E+00	5.255E-06	2.139E-06	3.605E-07	4.811E-06	0.000E+00	2.396E-01
354 355	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.040E-04 1.131E-04	0.000E+00 0.000E+00	8.241E-06 5.410E-06	7.368E-06 4.085E-06	1.232E-06 6.874E-07	1.71ZE-05 9.499E-06	0.000E+00 0.000E+00	2.033E-01 1.366E-01
356	0.000E+00	0.000E+00	7.744E-05	0.000E+00	3.992E-06	2.796E-06 2.118E-06	4.719E-07	6.503E-06 4.926E-06	0.000E+00 0.000E+00	1.057E-01 8.453E-02
357 358	0.000E+00 0.000E+00	0.000E+00 0.000E+00	5.866E-05 4.747E-05	0.000E+00 0.000E+00	3.127E-06 2.547E-06	1.714E-06	3.579E-07 2.897E-07	3.986E-06	0.000E+00	6.830E-02
359 360	0.000E+00 0.000E+00	0.000E+00 0.000E+00	7.514E-06 8.745E-06	0.000E+00 0.000E+00	1.078E-06 1.207E-06	2.905E-07 3.490E-07	4.926E-08 5.722E-08	6.324E-07 7.360E-07	0.000E+00 0.000E+00	1.316E-02 1.556E-02
361	0.000E+00	0.000E+00	1.005E-05	0.000E+00	1.037E-06	3.896E-07	6.397E-08	8.450E-07	0.000E+00	1.917E-02
362 363	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.218E-05 1.523E-05	0.000E+00 0.000E+00	1.107E-06 1.253E-06	4.679E-07 5.792E-07	7.678E-08 9.532E-08	1.024E-06 1.280E-06	0.000E+00 0.000E+00	2.43ZE-02 3.224E-02
364	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.985E-05 2.686E-05	0.000E+00 0.000E+00	1.464E-06 1.913E-06	7.433E-07 9.926E-07	1.233E-07 1.664E-07	1.668E-06 2.257E-06	0.000E+00 0.000E+00	4.477E-02 6.848E-02
365 366	0.000E+00	0.000E+00	4.236E-05	0.000E+00	2.910E-06	1.553E-06	2.618E-07	3.558E-06	0.000E+00	1.434E-01
367 368	0.000E+00 0.000E+00	0.000E+00 0.000E+00	9.534E-05 3.231E-04	0.000E+00 0.000E+00	6.100E-06 2.157E-05	3.480E-06 1.174E-05	5.870E-07 1.993E-06	8.008E-06 2.714E-05	0.000E+00 0.000E+00	5.764E-01 1.089E+00
369	0.000E+00	0.000E+00	2.549E-04	0.000E+00	1.146E-05	9.206E-06	1.545E-06	2.140E-05	0.000E+00 0.000E+00	3.203E-01
370 371	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.495E-04 9.456E-05	0.000E+00 0.000E+00	6.764E-06 4.530E-06	5.396E-06 3.414E-06	9.064E-07 5.746E-07	1.255E-05 7.939E-06	0.000E+00	1.818E-01 1.207E-01
372 373	0.000E+00 0.000E+00	0.000E+00	6.615E-05 4.989E-05	0.000E+00 0.000E+00	3.344E-06 2.607E-06	2.389E-06 1.802E-06	4.028E-07 3.042E-07	5.554E-06 4.189E-06	0.000E+00 0.000E+00	8.81 <i>5</i> E-02 6.925E-02
374	0.000E+00	0.000E+00 0.000E+00	4.025E-05	0.000E+00	2.16ZE-06	1.454E-06	2.457E-07	3.380E-06	0.000E+00	5.717E-02
375 376	0.000E+00 0.000E+00	0.000E+00 0.000E+00	7.254E-06 8.451E-06	0.000E+00 0.000E+00	9.722E-07 1.105E-06	2.775E-07 3.239E-07	4.721E-08 5.487E-08	6.104E-07 7.110E-07	0.000E+00 0.000E+00	1.093E-02 1.306E-02
377	0.000E+00	0.000E+00	9.995E-06	0.000E+00	1.222E-06	3.967E-07 4.461E-07	6.462E-08 7.332E-08	8.408E-07 9.835E-07	0.000E+00 0.000E+00	1.628E-02 2.097E-02
378 379	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.170E-05 1.473E-05	0.000E+00 0.000E+00	9.747E-07 1.125E-06	5.510E-07	9.167E-08	1.237E-06	0.000E+00	2 656E-02
380 381	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.877E-05 2.522E-05	0.000E+00 0.000E+00	1.446E-06 1.927E-06	6.941E-07 9.372E-07	1.168E-07 1.569E-07	1.577E-06 2.119E-06	0.000E+00 0.000E+00	3.412E-02 5.026E-02
382	0.000E+00	0.000E+00	3.676E-05	0.000E+00	2.512E-06	1.352E-06	2.272E-07	3.088E-06 6.024E-06	0.000E+00 0.000E+00	1.038E-01 2.467E-01
383 384	0.000E+00 0.000E+00	0.000E+00 0.000E+00	7.172E-05 1.431E-04	0.000E+00 0.000E+00	4.514E-06 1.041E-05	2.615E-06 5.215E-06	4.412E-07 8.872E-07	1.203E-05	0.000E+00	6.396E-01
385 386	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.805E-04 1.990E-04	0.000E+00 0.000E+00	1.360E-05 1.420E-05	6.584E-06 7.231E-06	1.121E-06 1.232E-06	1.517E-05 1.672E-05	0.000E+00 0.000E+00	1.316E+00 1.359E+00
387	0.000E+00	0.000E+00	1.898E-04	0.000E+00	1.191E-05 8.522E-06	6.853E-06	1.167E-06	1.594E-05	0.000E+00	5.410E-01 2.168E-01
388 389	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.587E-04 1.176E-04	0.000E+00 0.000E+00	8.522E-06 5.968E-06	5.729E-06 4.246E-06	9.684E-07 7.162E-07	1.332E-05 9.875E-06	0.000E+00 0.000E+00	1.307E-01
390	0.000E+00	0.000E+00	8.325E-05	0.000E+00	4.231E-06 3.120E-06	3.0062-06	5.070E-07 3.760E-07	6.990E-06 5.185E-06	0.000E+00 0.000E+00	9.252E-02 6.989E-02
391 392	0.000E+00 0.000E+00		6.175E-05 4.717E-05	0.000E+00 0.000E+00	2.418E-06	1.704E-06	2.874E-07	3.960E-06	0.000E+00	5.664E-02
393 394	0.000E+00 0.000E+00		3.793E-05 7.295E-06	0.000E+00 0.000E+00	2.013E-06 8.836E-07		2.314E-07 4.702E-08	3.185E-06 6.137E-07	0.000E+00 0.000E+00	4.785E-02 1.136E-02
395	0.000E+00	0.000E+00	8.798E-06	0.000E+00	1.022E-06	3.344E-07	5.649E-08	7.400E-07	0.000E+00	1.319E-02 1.481E-02
396 397	0.000E+00 0.000E+00		1.0662-05 1.236E-05	0.000E+00 0.000E+00	1.305E-06 1.275E-06	4.760E-07	6.881E-08 7.867E-08	8.966Z-07 1.040E-06	0.000E+00 0.000E+00	1.729E-02
398	0.000E+00	0.000E+00	1.417E-05	0.000E+00	1.315E-06	5.419E-07		1.191E-06 1.409E-06		2.133E-02 2.938E-02
399 400	0.000E+00 0.000E+00	0.000E+00	2.162E-05	0.000E+00	1.548E-06	8.0712-07	1.341E-07	1.817E-06	0.000E+00	5.171E-02
401 402	0.000E+00 0.000E+00			0.000E+00 0.000E+00				2.710E-06 4.824E-06	0.000E+00	8.871E-02 1.559E-01
403	0.000E+00	0.000E+00	9.290E-05	0.000E+00	6.709E-06	3.398E-06	5.757E-07	7.805E-06	0.000E+00	2.727E-01 4.267E-01
404 405	0.000E+00 0.000E+00	0.000E+00	1.34ZE-04	0.000E+00	1.002E-05	4.900E-06	8.331E-07	1.128E-05	0.000E+00	4.589E-01
406 407	0.000E+00					4.767E-06 4.155E-06				3.247E-01 1.890E-01
407	5.4002700		1.1701							

408 409 410	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	9.245E-05 7.232E-05 5.745E-05	0.000E+00 0.000E+00	4.939E-06 3.906E-06	3.340E-06 2.613E-06	5.642E-07 4.416E-07	7.763E-06 6.073E-06	0.000E+00 0.000E+00	1.185E-01 8.180E-02
411	0.000E+00	0.000E+00	4.603E-05	0.000E+00 0.000E+00	3.089E-06 2.410E-06	2.077E-06 1.663E-06	3.507E-07 2.807E-07	4.824E-06 3.865E-06	0.000E+00	6.429E-02
412	0.000E+00	0.000E+00	3.667E-05	0.000E+00	1.935E-06	1.325E-06	2.237E-07	3.080E-06	0.000E+00 0.000E+00	5.346E-02 4.446E-02
413	0.000E+00	0.000E+00	1.231E-05	0.000E+00	1.256E-06	4.801E-07	7.835E-08	1.035E-06	0.000E+00	2.175E-02
414	0.000E+00	0.000E+00	1.077E-05	0.000E+00	1.005E-06	4.142E-07	6.799E-08	9.049E-07	0.000E+00	2.103E-02
415	0.000E+00	0.000E+00	1.010E-05	0.000E+00	9.014E-07	3.907E-07	6.362E-08	8.491E-07	0.000E+00	2.112E-02
416	0.000E+00	0.0002+00	1.470E-05	0.000E+00	1.164E-06	5.578E-07	9.180E-08	1.236E-06	0.000E+00	3.199E-02
417	0.000E+00	0.000E+00	1.353E-05	0.000E+00	1.028E-06	5.163E-07	8.429E-08	1.137E-06	0.000E+00	2.958E-02
418 419	0.000E+00	0.000E+00	1.401E-05	0.000E+00	1.084E-06	5.231E-07	8.724E-08	1.177E-06	0.000E+00	2.353E-02
420	0.000E+00 0.000E+00	0.000E+00	1.929E-05	0.000E+00	1.288E-06	7.208E-07	1.192E-07	1.621E-06	0.000E+00	4.471E-02
421	0.000E+00	0.000E+00 0.000E+00	1.971E-05 1.848E-05	0.000E+00	1.442E-06	7.317E-07	1.223E-07	1.656E-06	0.000E+00	3.545E-02
422	0.000E+00	0.000E+00	2.971E-05	0.000E+00 0.000E+00	1.573E-06	6.959E-07	1.158E-07	1.553E-06	0.000E+00	3.320E-02
423	0.000E+00	0.000E+00	2.723E-05	0.000E+00	2.040E-06	1.094E-06	1.837E-07	2.496E-06	0.000E+00	6.916E-02
424	0.000E+00	0.000E+00	2.552E-05	0.000E+00	1.963E-06 1.934E-06	1.019E-06 9.526E-07	1.689E-07	2.287E-06	0.000E+00	6.023E-02
425	0.000E+00	0.000E+00	4.797E-05	0.000E+00	3.262E-06	1.762E-06	1.587E-07 2.964E-07	2.144E-06 4.030E-06	0.000E+00	5.239E-02
426	0.000E+00	0.000E+00	4.176E-05	0.000E+00	2.967E-06	1.537E-06	2.586E-07	3.508E-06	0.000E+00 0.000E+00	1.129E-01
427	0.000E+00	0.000E+00	3.747E-05	0.000E+00	2.725E-06	1.383E-06	2.324E-07	3.148E-06	0.000E+00	8.970E-02 7.680E-02
428	0.000E+00	0.000E+00	7.108E-05	0.000E+00	5.081E-06	2.607E-06	4.403E-07	5.972E-06	0.000E+00	1.731E-01
429	0.000E+00	0.000E+00	5.826E-05	0.000E+00	4.145E-06	2.143E-06	3.608E-07	4.894E-06	0.000E+00	1.261E-01
430	0.000E+00	0.000E+00	4.908E-05	0.000E+00	3.531E-06	1.809E-06	3.042E-07	4.123E-06	0.000E+00	9.574E-02
431	0.000E+00	0.000E+00	8.882E-05	0.000E+00	6.371E-06	3.246E-06	5.502E-07	7.462E-06	0.000E+00	2.456E-01
432	0.000E+00	0.000E+00	6.854E-05	0.000E+00	4.961E-06	2.510E-06	4.248E-07	5.758E-06	0.000E+00	1.632E-01
433	0.000E+00	0.000E+00	5.549E-05	0.000E+00	4.027E-06	2.035E-06	3.440E-07	4.662E-06	0.000E+00	1.189E-01
434	0.000E+00	0.000E+00	9.744E-05	0.000E+00	7.079E-06	3.549E-06	6.039E-07	8.186E-06	0.000E+00	2.563E-01
435 436	0.000E+00 0.000E+00	0.000E+00	7.513E-05	0.000E+00	5.202E-06	2.735E-06	4.644E-07	6.311 <b>E-</b> 06	0.000E+00	1.733E-01
437	0.000E+00	0.000E+00 0.000E+00	6.005E-05	0.000E+00	4.041E-06	2.189E-06	3.706E-07	5.044E-06	0.000E+00	1.281E-01
438	0.000E+00	0.000E+00	9.825E-05 7.619E-05	0.000E+00	6.722E-06	3.594E-06	6.070E-07	8.253E-06	0.000E+00	2.096E-01
439	0.000E+00	0.000E+00	6.109E-05	0.000E+00 0.000E+00	5.260E-06	2.782E-06	4.709E-07	6.400E-06	0.000E+00	1.463E-01
440	0.000E+00	0.000E+00	8.861E-05	0.000E+00	4.066E-06 5.560E-06	2.227E-06 3.223E-06	3.768E-07	5.131E-06	0.000E+00	1.114E-01
441	0.000E+00	0.000E+00	7.161E-05	0.000E+00	4.929E-06	2.626E-06	5.449E-07	7.442E-06	0.000E+00	1.510E-01
442	0.000E+00	0.000E+00	5.919E-05	0.000E+00	4.111E-06	2.164E-06	4.427E-07 3.660E-07	6.016E-06 4.972E-06	0.000E+00	.1.196E-01
443	0.000E+00	0.000E+00	7.500E-05	0.000E+00	4.874E-06	2.770E-06	4.624E-07	6.300E-06	0.000E+00 0.000E+00	9.637E-02
444	0.000E+00	0.000E+00	6.295E-05	0.000E+00	4.675E-06		3.912E-07	5.289E-06	0.000E+00	1.119E-01 9.494E-02
445	0.000E+00	0.000E+00	5.317E-05	0.000E+00	3.514E-06	1.943E-06	3.279E-07	4.466E-06	0.000E+00	7.715E-02
446	0.000E+00	0.000E+00	6.214E-05	0.000E+00	3.556E-06	2.258E-06	3.805E-07	5.218E-06	0.000E+00	8.127E-02
447	0.000E+00	0.000E+00	5.305E-05	0.000E+00	2.968E-06	1.923E-06	3.245E-07	4.455E-06	0.000E+00	7.713E-02
448	0.000E+00	0.000E+00	4.604E-05	0.000E+00	2.737E-06	1.675E-06	2.824E-07	3.867E-06	0.000E+00	6.774E-02
449	0.000E+00	0.000E+00	5.123E-05	0.000E+00	2.845E-06	1.851E-06	3.132E-07	4.302E-06	0.000E+00	6.107E-02
450	0.000E+00	0.000E+00	4.489E-05	0.000E+00	2.528E-06	1.623E-06	2.746E-07	3.769E-06	0.000E+00	6.048E-02
451	0.000E+00	0.000E+00	3.981E-05	0.000E+00	2.280E-06	1.444E-06	2.438E-07	3.343E-06	0.000E+00	5.761E-02

0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

SOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, TSP \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\gQtspace.dat Output File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 91

# \*\*\* FREDICTED ANNUAL CONCENTRATIONS (ug/m3) FROM ALL SOURCES \*\*\*

RECEPTOR	Pb	Mn	Hg	Ni	Napth	PAH	PROPL	Se	TOL	XYLEN
1	1.272E-05	6.924E-05	0.000E+00	2.035E-06	0.0005100					
5	1.894E-05	1.043E-04	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ž	1.879E-05	1.036E-04	0.000E+00	3.061E-06 3.039E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
<i>.</i>	2.448E-05	1.342E-04	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
7	2.471E-05	1.355E-04		3.941E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2	2.249E-05	1.333E-04 1.230E-04	0.000E+00	3.978E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
;	1.988E-05	1.089E-04	0.000E+00	3.614E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
<b>'</b>	2.020E-05		0.000E+00	3.199E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
9		1.097E-04	0.000E+00	3.225E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	2.108E-05	1.140E-04	0.000E+00	3.354E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
10	2.630E-05	1.440E-04	0.000E+00	4.229E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
11	1.079E-05	5.891E-05	0.000E+00	1.731E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
12	4.715E-05	2.556E-04	0.000E+00	7.517E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
13	2.108E-05	1.109E-04	0.000E+00	3.273E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
14	2.126E-05	1.118E-04	0.000E+00	3.301E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
15	2.073E-05	1.090E-04	0.000E+00	3.216E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
16	2.353E-05	1.239E-04	0.000E+00	3.656E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
17	1.197E-05	6.514E-05	0.000E+00	1.915E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
18	1.822E-05	9.824E-05	0.000E+00	2.891E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
19	1.840E-05	9.778E-05	0.000E+00	2.883E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
20	2.570E-05	1.370E-04	0.000E+00	4.037E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
21	1.931E-05	1.008E-04	0.000E+00	2.979E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
22	1.828E-05	9.431 <b>E-0</b> 5	0.000E+00	2.791E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
23	1.831E-05	9.41 <b>2E-0</b> 5	0.000E+00	2.786E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
24	1.814E-05	9.343E-05	0.000E+00	2.765E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
25	1.816E-05	9.400E-05	0.000E+00	2.780E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
26	1.857E-05	9.875E-05	0.000E+00	2.911E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
27	1.877E-05	1.010E-04	0.000E+00	2.972E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
28	1.998E-05	1.078E-04	0.000E+00	3.171E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
29	2.547E-05	1.366E-04	0.000E+00	4.023E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
30	2.709E-05	1.448E-04	0.000E+00	4.264E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
31	2.845E-05	1.515E-04	0.000E+00	4.464E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
32	2.870E-05	1.521E-04	0.000E+00	4.485E-06	0.000E+00	0.000E+00	0.000E+00			
				T. TOJE -00	3.330ET00	U.UUUETUU	0.0002700	0.000E+00	0.000E+00	0.000E+00

33	3.192E-05	1.684E-04	0.000E+00	4.969E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.0002+00	0.000E+00
34	3.539E-05	1.862E-04	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
35	3.775E-05	1.985E-04	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
36 37 .	3.918E-05 3.914E-05	2.067E-04 2.072E-04	0.000E+00 0.000E+00	6.100E-06 6.112E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
38	3.780E-05	2.013E-04	0.000E+00	5.932E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
39	4.634E-05	2.457E-04	0.000E+00	7.246E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
40 41	5.894E-05 8.206E-05	3.114E-04 4.266E-04	0.000E+00 0.000E+00	9.186E-06 1.261E-05	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
42	1.273E-04	6.540E-04	0.000E+00	1.936E-05	0.000E+00	0.000Z+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
43	1.060E-04	5.553E-04	0.000E+00	1.640E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
44 45	9.063E-05 8.509E-05	5.037E-04 4.854E-04	0.000E+00 0.000E+00	1.477E-05 1.419E-05	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
46	5.463E-05	3.083E-04	0.000E+00	9.022E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
47	8.218E-05	4.561E-04	0.000E+00	1.337E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
48 49	1.027E-04 1.214E-04	5.911E-04 6.988E-04	0.000E+00 0.000E+00	1.726E-05	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
50	1.306E-04	7.482E-04	0.000E+00	2.040E-05 2.186E-05	0.0002+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
51	7.119E-05	3.970E-04	0.000E+00	1.164E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
52 53	4.763E-05 3.461E-05	2.637E-04	0.000E+00	7.734E-06	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
54	2.993E-05	1.911E-04 1.566E-04	0.000E+00 0.000E+00	5.608E-06 4.626E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
55	3.110E-05	1.673E-04	0.000E+00	4.924E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
56 57	3.394E-05 3.461E-05	1.820E-04	0.000E+00	5.359E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
58	4.359E-05	1.905E-04 2.390E-04	0.000E+00 0.000E+00	5.593E-06 7.020E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
59	5.739E-05	3.010E-04	0.000E+00	8.887E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
60	6.867E-05	3.597E-04	0.000E+00	1.062E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
61 62	8.174E-05 9.596E-05	4.302E-04 5.054E-04	0.000E+00 0.000E+00	1.270E-05 1.491E-05	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
63	1.130E-04	5.892E-04	0.000E+00	1.741E-05	0.000E+00	G.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
64	1.042E-04 1.203E-04	5.430E-04	0.000E+00	1.605E-05	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
65 66	1.469E-04	6.359E-04 7.901E-04	0.000E+00 0.000E+00	1.876E-05 2.325E-05	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
67	1.934E-04	1.070E-03	0.000E+00	3.139E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
· 68	2.051E-04	1.144E-03	0.000E+00	3.351E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
69 70	2.063E-04 2.023E-04	1.145E-03 1.120E-03	0.000E+00 0.000E+00	3.358E-05 3.286E-05	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
71	1.335E-04	7.280E-04	0.000E+00	2.139E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
72	9.966E-05	5.340E-04	0.000E+00	1.573E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
73 74	7.384E-05 6.452E-05	4.027E-04 3.382E-04	0.000E+00 0.000E+00	1.183E-05 9.987E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
7 <b>5</b>	5.732E-05	3.092E-04	0.000E+00	9.097E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
76	5.024E-05	2.766E-04	0.000E+00	8.117E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
77 78	4.330E-05	2.386E-04	0.000E+00	7.002E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
79	3.876E-05 4.591E-05	2.064E-04 2.394E-04	0.000E+00 0.000E+00	6.082E-06 7.073E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
80	4.719E-05	2.610E-04	0.000E+00	7.656E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
81	5.467E-05	3.051E-04	0.000E+00	8.941E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
82 83	6.347E-05 6.967E-05	3.579E-04 3.938E-04	0.000E+00 0.000E+00	1.047E-05 1.152E-05	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
84	7.543E-05	4.269E-04	0.000E+00	1.249E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
85	8.011E-05	4.538E-04	0.000E+00	1.328E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
86 87	7.801E-05 4.251E-05	4.402E-04 2.332E-04	0.000E+00 0.000E+00	1.288E-05 6.847E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
88	2.887E-05	1.555E-04	0.000E+00	4.577E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
89	2.130E-05	1.133E-04	0.000E+00	3.340E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
90 91	2.021E-05 9.126E-05	1.066E-04 5.087E-04	0.000E+00 0.000E+00	3.144E-06 1.491E-05	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
92	8.853E-05	4.927E-04	0.000E+00	1.444E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
93 94	8.543E-05	4.741E-04	0.000E+00	1.390E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
95	8.240E-05 7.929E-05	4.548E-04 4.360E-04	0.000E+00 0.000E+00	1.334E-05 1.280E-05	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
96	7.629E-05	4.187E-04	0.000E+00	1.229E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
97	7.392E-05	4.027E-04	0.000E+00	1.184E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
98 99	6.937E-05 6.681E-05	3.787E-04 3.599E-04	0.000E+00 0.000E+00	1.113E-05 1.059E-05	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
100	6.281E-05	3.372E-04	0.000E+00	9.929E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
101	6.057E-05	3.198E-04	0.000E+00	9.435E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
102 103	5.959E-05	3.060E-04	0.000E+00 0.000E+00	9.060E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
104	1.041E-04 1.003E-04	5.811E-04 5.581E-04	0.000E+00	1.703E-05 1.636E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
105	9.580E-05	5.309E-04	0.000E+00	1.557E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
106 107	9.171E-05 8.763E-05	5.046E-04 4.804E-04	0.000E+00 0.000E+00	1.481E-05 1.411E-05	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
108	8.372E-05	4.570E-04	0.000E+00	1.343E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
109	7.992E-05	4.330E-04	0.000E+00	1.273E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
110	7.565E-05 7.092E-05	4.062E-04 3.792E-04	0.000E+00 0.000E+00	1.196E-05 1.117E-05	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
111 112	6.699E-05	3.551E-04	0.000E+00	1.047E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
113	6.328E-05	3.327E-04	0.000E+00	1.047E-05 9.821E-06	0.000E+00	0.000E+00	0.000E+00	G.000E+00	0.000E+00	0.000E+00 0.000E+00
114 115 116	6.147E-05 1.214E-04	3.162E-04 6.779E-04	0.000E+00 0.000E+00	9.359E-06 1.986E-05	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
116	1.156E-04	6.431E-04	0.000E+00	1.885E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
117	1.088E-04	6.014E-04	0.000E+00	1.764E-05	0.000E+00	0.000E+00	0.00GE+00	0.000E+00	0.000E+00	0_000E+00
118	1.030E-04 9.882E-05	5.645E-04	0.000E+00 0.000E+00	1.658 <b>E-</b> 05 1.57 <b>2E-</b> 05	0.000E+00 0.000E+00	0.000E+00 0.000E+00		0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
118 119 120	9.191E-05	5.345E-04 4.968E-04	0.000E+00	1.461E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
121 122	9.191E-05 8.579E-05	4.618E-04	0.000E+00	1.461E-05 1.359E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
122	8.106E-05	4.307E-04	0.000E+00	1.270E-05	0.000E+00	0.000E+00 0.000E+00		0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
124	7.578E-05 7.389E-05	4.005E-04 3.808E-04	0.000E+00 0.000E+00	1.181E-05 1.127E-05	0.000E+00 0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00
125	6.825E-05	3.529E-04	0.000E+00	1.044E-05	0.000E+00	0.000E+00	0.000E+00	. 0.000E+00	0.000E+00	0.000E+00
126	6.343E-05		0.000E+00	9.690E-06	0.000E+00	0.000E+00 0.000E+00		0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
123 124 125 126 127 128	1.456E-04 1.367E-04	8.146E-04 7.606E-04	0.000E+00 0.000E+00		0.000E+00 0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00
129	1.258E-04	6.926E-04	0.000E+00	2.033E-05	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00

130	1.207E-04	6.463E-04	0.000E+00	1.904E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
131	1.114E-04	5.916E-04	0.000E+00	1.744E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
132	1.030E-04	5.424E-04	0.000E+00	1.601E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
133	9.215E-05	4.908E-04	0.000E+00	1.447E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
134	8.828E-05	4.605E-04	0.000E+00	1.361E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
135	8.243E-05	4.281E-04	0.000E+00	1.266E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
136	7.621E-05	3.967E-04	0.000E+00	1.173E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
137	7.091E-05	3.681E-04	0.000E+00	1.088E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
138	6.597E-05	3.417E-04	0.000E+00	1.010E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
139	1.870E-04	1.039E-03	0.000E+00	3.045E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
140	1.739E-04	9.570E-04	0.000E+00	2.809E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
141	1.520E-04	8.246E-04	0.000E+00	2.425E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
142	1.331E-04	7.119E-04	0.000E+00	2.097E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
143	1.197E-04	6.342E-04	0.000E+00	1.870E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
144	1.095E-04	5.748E-04	0.000E+00	1.697E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
145	1.004E-04	5.253E-04	0.000E+00	1.552E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
146	9.308E-05	4.853E-04	0.000E+00	1.434E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
147	8.603E-05	4.487E-04	0.000E+00	1.326E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
148	7.961E-05	4.153E-04	0.000E+00	1.227E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
149	7.390E-05	3.853E-04	0.000E+00	1.139E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
150	6.850E-05	3.570E-04	0.000E+00	1.055E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
151	1.063E-04	5.544E-04	0.000E+00	1.638E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
152	9.783E-05	5.120E-04	0.000E+00	1.512E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
153	9.042E-05	4.744E-04	0.000E+00	1.401E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
154	8.435E-05	4.393E-04	0.000E+00	1.298E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
155	7.792E-05	4.090E-04	0.000E+00	1.207E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
156	7.223E-05	3.779E-04	0.000E+00	1.116E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
157	5.584E-05	2.901E-04	0.000E+00	8.576E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
158	5.652E-05	2.963E-04	0.000E+00	8.749E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
159	5.171E-05	2.848E-04	0.000E+00	8.359E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
160	4.992E-05	2.769E-04	0.000E+00	8.119E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
161	4.743E-05	2.631E-04	0.000E+00	7.715E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
162	4.525E-05	2.504E-04	0.000E+00	7.346E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
163	4.367E-05	2.407E-04	0.000E+00	7.065E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
164	4.097E-05	2.244E-04	0.000E+00	6.589E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
165	3.732E-05	2.023E-04	0.000E+00	5.949E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
166	3.321E-05	1.786E-04	0.000E+00	5.258E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
167	2.969E-05	1.596E-04	0.000E+00	4.699E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
168	6.461E-05	3.565E-04	0.000E+00	1.046E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
169	6.428E-05	3.566E-04	0.000E+00	1.046E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
170	6.135E-05	3.411E-04	0.000E+00	9.999E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
171	5.779E-05	3.202E-04	0.000E+00	9.392E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
172	5.462E-05	3.012E-04	0.000E+00	8.839E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0 - 000E+00
173	5.141E-05	2.815E-04	0.000E+00	8.267E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
174	4.658E-05	2.515E-04	0.000E+00	7.399E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
175	4.130E-05	2.195E-04	0.000E+00	6.471E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
176	3.546E-05	1.895E-04	0.000E+00	5.582E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
177	3.135E-05	1.679E-04	0.000E+00	4 944F-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
178	8.949E-05	4.829E-04	0.000E+00	4.946E-06 1.421E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
179	8.324E-05	4.632E-04	0.000E+00	1.358E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
180	7.803E-05	4.339E-04	0.000E+00	1.272E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
181	7.196E-05	3.970E-04	0.000E+00	1.165E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
182	6.780E-05	3.677E-04	0.000E+00	1.081E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
183	5.958E-05	3.219E-04	0.000E+00	9.471E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
184	5.55E-05	2.859E-04	0.000E+00	8.461E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
185	4.609E-05	2.389E-04	0.000E+00	7.064E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
186	3.841E-05	2.030E-04	0.000E+00	5.988E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
187	3.317E-05	1.782E-04	0.000E+00	5.245E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
188	1.249E-04	6.780E-04	0.000E+00	1.993E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
189	1.154E-04	6.447E-04	0.000E+00	1.889E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
190	1.048E-04	5.815E-04	0.000E+00	1.705E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
191	9.289E-05	5.064E-04	0.000E+00	1.488E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
192	8.043E-05	4.324E-04	0.000E+00	1.273E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
193	6.956E-05	3.655E-04	0.000E+00	1.079E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
194	6.019E-05	3.103E-04	0.000E+00	9.183E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
195	4.940E-05	2.574E-04	0.000E+00	7.606E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
196	4.267E-05	2.232E-04	0.000E+00	6.592E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
197	3.480E-05	1.877E-04	0.000E+00	5.524E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
198	1.975E-04	1.094E-03	0.000E+00	3.209E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
199	1.900E-04	1.067E-03	0.000E+00	3.124E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
200	1.627E-04	8.899E-04	0.000E+00	2.614E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
201	9.708E-05	5.056E-04	0.000E+00	1.494E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
202	6.613E-05	3.444E-04	0.000E+00	1.018E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
203	5.542E-05	2.868E-04	0.000E+00	8.484E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
204	4.295E-05	2.323E-04	0.000E+00	6.832E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
205	3.457E-05	1.886E-04	0.000E+00	5.543E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
206	3.318E-05	1.819E-04	0.000E+00	5.342E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
207	3.308E-05	1.731E-04	0.000E+00	5.114E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
208	3.225E-06	1.688E-05	0.000E+00	4.985E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
209	3.676E-06	1.937E-05	0.000E+00	5.715E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
210	4.307E-06	2.277E-05	0.000E+00	6.716E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
211	4.307E-06 5.059E-06	2.690E-05	0.000E+00	6.716E-07 7.929E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
212	6.041E-06	3.235E-05	0.000E+00	9.529E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
213	7.531E-06	4.053E-05	0.000E+00	1.193E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
214	9.575E-06	5.189E-05	0.000E+00	1.526E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
215	1.231E-05	6.704E-05	0.000E+00	1.526E-06 1.970E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
216	1.471E-05	8.010E-05	0.000E+00	2.354E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
217	1.691E-05	9.252E-05	0.000E+00	2.718E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
218	1.808E-05	9.912E-05	0.000E+00	2.911E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
219	1.867E-05	1.024E-04	0.000E+00	3.007E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
220	1.758E-05	9.605E-05	0.000E+00	2.822E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
221	1.613E-05	8.831E-05	0.000E+00	2.594E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
222	1.485E-05	8.196E-05	0.000E+00	2.405E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
222 223	1.478E-05	8.146E-05	0.000E+00	2.391E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
224	1.486E-05	8.122E-05	0.000E+00	2.386E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
225	1.469E-05	7.934E-05	0.000E+00	2.334E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
226	1.399E-05	7.517E-05	0.000E+00	2.213E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

							0.000100	0.000	0.0000+00	0.0007100
227	3.205E-06		0.000E+00	4.896E-07	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00
228 229	3.756E-06		0.000E+00	5.789E-07	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00
229	4.390E-06	2.310E-05	Q.000E+00	6.817E-07	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00
230	5.220E-06	2.764E-05	0.000E+00	8.151E-07	0.000E+00	0.000E+00	0.000E+00		0.000E+CO	0.000E+00
231	6.283E-06	3.352E-05	0.000E+00	9.876E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
232	7.776E-06	4.184E-05	0.000E+00	1.231E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
233	1.011E-05		0.000E+00	1.610E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
234	1.336E-05	7.280E-05	0.000E+00	2.139E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
235	1.686E-05	9.199E-05	0.000E+00	2.703E-06	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00
236	2.007E-05	1.098E-04	0.000E+00	3.226E-06	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00
237	2.197E-05	1.206E-04	0.000E+00	3.542E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
238	2.239E-05					0.000E+00	0.000E+00	0.000E+00	0.000E+00	
		1.228E-04	0.000E+00	3.607E-06	0.000E+00					0.000E+00
239	2.086E-05	1.141E-04	0.000E+00	3.352E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
240	1.911E-05	1.051E-04	0.000E+00	3.086E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
241	1.831E-05	1.012E-04	0.000E+00	2.970E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
242	1.832E-05	1.006E-04	0.000E+00	2.954E-06	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00
243	1.779E-05	9.646E-05	0.000E+00	2.836E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
244	1.675E-05	8.996E-05	0.000E+00	2.648E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
245	1.497E-05	8.038E-05	0.000E+00	2.366E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
246	2.950E-06	1.521E-05	0.000E+00	4.501E-07	0.000E+00	0.000E+00	0.000 <b>E</b> +00	0.000E+00	0.000E+00	0.000E+00
247	3.651E-06	1.879E-05	0.000E+00	5.561E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
248	4.400E-06	2.292E-05	0.000E+00	6.772E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
249	5.319E-06	2.805E-05	0.000E+00	8.276E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
250	6.525E-06	3.463E-05	0.000E+00	1.021E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
251	8.151E-06	4.368E-05	0.000E+00	1.286E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
252	1.062E-05	5.746E-05	0.000E+00	1.690E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
253						0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
254	1.460E-05	7.9582-05	0.000E+00	2.339E-06	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
234	1.951E-05	1.068E-04	0.000E+00	3.136E-06	0.000E+00	0.000E+00				
255	2.437E-05	1.336E-04	0.000E+00	3.924E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
256	2.745E-05	1.509E-04	0.000E+00	4.430E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
257	2.756E-05	1.512E-04	0.000E+00	4.440E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
258	2.587E-05	1.420E-04	0.000E+00	4.169E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
259	2.398E-05	1.326E-04	0.000E+00	3.890E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
260	2.352E-05	1.299E-04	0.000E+00	3.811E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
261	2.238E-05	1.221E-04	0.000E+00	3.588E-06	0.000E+00	0.000E+00	0.000E+00	0.000 <b>E+</b> 00	0.000E+00	0.000E+00
262	2.057E-05	1.106E-04	0.000E+00	3.256E-06	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
263	1.825E-05	9.804E-05	0.000E+00	2.886E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 (	0.000E+00
264	1.537E-05	8.290E-05	0.000E+00	2.439E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
265	3.005E-06	1.535E-05	0.000E+00	4.548E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
266	3.455E-06	1.782E-05		5.272E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
			0.000E+00				0.000E+00	0.000E+00	0.000E+00	
267	4.242E-06	2.187E-05	0.0002+00	6.472E-07	0.000E+00	0.000E+00		0.000E+00		0.000E+00
268	5.248E-06	2.733E-05	0.000E+00	8.076E-07	0.000E+00	0.000E+00	0.000E+00		0.000E+00	0.000E+00
269	6.624E-06	3.497E-05	0.000E+00	1.032E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
270	8.457E-06	4.518E-05	0.000E+00	1.331E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
271	1.130E-05	6.096E-05	0.000E+00	1.794E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
272	1.584E-05	8.640E-05	0.000E+00	2.539E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
273	2.30 <i>5</i> E-05	1.264E-04	0.000E+00	3.711E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
274	3.190E-05	1.714E-04	0.000E+00	5.047E-06	0.00GE+00	C.000E+00	0.000E+00	0.000E+00	0.000E+00	C.000E+00
275	3.610E-05	1.977E-04	0.000E+00	5.806E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
276	3.582E-05	1.969E-04	0.000E+00	5.780E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
277	3.375E-05	1.864E-04	0.000E+00	5.470E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
278	3.169E-05	1.755E-04	0.000E+00	5.146E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
279	3.011E-05	1.653E-04	0.000E+00	4.854E-06	0.000E+00	0.000E+00	0.000E+00	0.00CE+00	0.000E+00	0.000E+00
280	2.657E-05	1.434E-04	0.000E+00	4.220E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
281	2.277E-05	1.224E-04	0.000E+00	3.603E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	1.888E-05					0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
282		1.020E-04	0.000E+00	3.000E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
283	1.502E-05	8.130E-05	0.000E+00	2.391E-06	0.000E+00			0.000E+00	0.000E+00	0.000E+00
284	3.081E-06	1.570E-05	0.000E+00	4.653E-07	0.000E+00	0.000E+00	0.000E+00		0.000E+00	Q.000E+00
285	3.601E-06	1.834E-05	0.000E+00	5.435E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00
286	4.208E-06	2.172E-05	0.000E+00	6.428E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
287	5.173E-06	2.691E-05	0.000E+00	7.953E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
288	6.5Z1E-06	3.415E-05	0.000E+00	1.008E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
289	8.580E-06	4.549E-05	0.000E+00	1.341E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
290	1.180E-05	6.341E-05	0.000E+00	1.867E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
291	1.737E-05	9.476E-05	0.000E+00	2.784E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
292	3.173E-05	1.637E-04	0.000E+00	4.845E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
293	4.063E-05	2.242E-04	0.000E+00	6.579E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	G.000E+00
294	2.401E-05	1.298E-04	0.000E+00	3.819E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
295	1.842E-05	9.997E-05	0.000E+00	2.939E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
296	1.376E-05	7.471E-05	0.000E+00	2.197E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
297	2.814E-06	1.423E-05	0.000E+00	4.222E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
298	3.414E-06	1.724E-05	0.000E+00	5.116E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
299	4.177E-06	2.108E-05	0.000E+00	6.255E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
300	5.008E-06	2.568E-05	0.000E+00	7.604E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
301	6.351E-06	3.310E-05	0.000E+00	9.780E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	0.3315-00	4 5052-05		1.329E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
302	8.517E-06	4.505E-05	0.000E+00	1.3275-00			0.000E+00	0.000E+00	0.000E+00	0.000E+00
303	1.214E-05	6.510E-05	0.000E+00	1.917E-06	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
304	1.881E-05	1.023E-04	0.000E+00	3.007E-06	0.000E+00					
305	3.388E-05	1.8662-04	0.000E+00	5.476E-06	0.000E+00			0.000E+00	0.000E+00	0.000E+00
306	2.388E-05	1.305E-04	0.000E+00	3.834E-06	0.000E+00			0.000E+00	0.000E+00	0.000E+00
307	1.706E-05		0.000E+00	2.739E-06	0.000E+00			0.000E+00	0.000E+00	0.000E+00
308	1.263E-05	6.904E-05	0.000E+00	2.028E-06	0.000E+00			0.000E+00	0.000E+00	0.000E+00
309	2.408E-06	1.178E-05	0.000E+00	3.509E-07	0.000E+00	0.000E+00	0.000E+00	G.000E+00	0.000E+00	0.000E+00
310	2.919E-06	1.455E-05	0.000E+00	4.324E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
311	3.637E-06	1.833E-05	0.00CE+00	5.441E-07	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00
311 312 313	4.613E-06	2.345E-05	0.000E+00	6.951E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
313	5.918E-06	3.035E-05	0.000E+00	8.988E-07	0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00
314	8.020E-06		0.000E+00		0.000E+00	0.000E+00		0.000E+00	0.000E+00	0.000E+00
315	1.165E-05	6.169E-05	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
316	1.898E-05	1.025E-04	0.000E+00	3.016E-06	0.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00
317	4.008E-05		0.000E+00		0.000E+00			0.000E+00	0.000E+00	0.000E+00
318	2.182E-05		0.000E+00	3.509E-06	0.000E+00			0.000E+00	0.000E+00	0.000E+00
319	1.492E-05		0.000E+00		0.000E+00			0.000E+00	0.000E+00	0.000E+00
320	1.115E-05		0.000E+00		0.000E+00			0.000E+00	0.000E+00	0.000E+00
321	2.129E-06		0.000E+00		0.000E+00			0.000E+00	0.000E+00	0.000E+00
322	2.585E-06	1.233E-05	0.000E+00	3.686E-07	0.000E+00			0.000E+00	0.000E+00	0.000E+00
323	3.022E-06	1 1775-05	0.000E+00		0.000E+00			0.000E+00	0.000E+00	0.000E+00
-4-	00-نتىئىدە. ب	1.473E-05	<b>↓.</b> 000±700	5705.07						

324	3.701E-06	1.850E-05	0.000E+00	5 404E-07	0.0002100	0.0007.00				
325	4.918E-06	2.497E-05	0.000E+00	5.496E-07 7.403E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
326	6.892E-06	3.525E-05	0.000E+00	1.044E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
327	1.009E-05	5.264E-05	0.000E+00	1.555E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
328	1.719E-05	9.124E-05	0.000E+00	2.690E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
329	4.065E-05	2.237E-04	0.000E+00	6.565E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
330	1.864E-05	1.0242-04	0.000E+00	3.005E-06	0.000E+00	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00
331 332	1.362E-05	7.449E-05	0.000E+00	2.188E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
333	1.079E-05 1.835E-06	5.887E-05 9.310E-06	0.000E+00	1.730E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
334	2.132E-06	1.080E-05	0.000E+00 0.000E+00	2.760E-07 3.203E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
335	2.554E-06	1.286E-05	0.000E+00	3.817E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
336	3.176E-06	1.588E-05	0.000E+00	4.717E-07	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
337	4.122E-06	2.041E-05	0.000E+00	6.072E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
338	5.456E-06	2.728E-05	0.000E+00	8.106E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
339	8.265E-06	4.201E-05	0.000E+00	1.245E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
340	1.444E-05	7.510E-05	0.000E+00	2.220E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
341 342	4.997E-05	2.779E-04	0.000E+00	8.146E-06	0.000E+00	0.000E+00	0.000Z+00	0.000E+00	0.000E+00	0.000E+00
343	2.452E-05 1.663E-05	1.349E-04 9.098E-05	0.000E+00	3.959E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
344	1.245E-05	6.792E-05	0.000E+00 0.000E+00	2.673E-06 1.996E-06	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
345	9.709E-06	5.288E-05	0.000E+00	1.554E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.0002+00 0.0002+00	0.000E+00	0.000E+00	0.000E+00
346	1.825E-06	8.658E-06	0.000E+00	2.590E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
347	1.951E-06	9.5862-06	0.000E+00	2.854E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
348	2.231E-06	1.116E-05	0.000E+00	3.316E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
349	2.632E-06	1.340E-05	0.000E+00	3.971E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
350	3.272E-06	1.684E-05	0.000E+00	4.985E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
351 352	4.345E-06	2.247E-05	0.000E+00	6.648E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
353	6.491E-06 1.102E-05	3.350E-05 5.633E-05	0.000E+00	9.913E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
354	3.454E-05	1.930E-04	0.000E+00 0.000E+00	1.669E-06 5.654E-06	0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
355	1.954E-05	1.076E-04	0.000E+00	3.159E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
356	1.350E-05	7.389E-05	0.000E+00	2.170E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00
357	1.027E-05	5.605E-05	0.000E+00	1.647E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
358	8.321E-06	4.537E-05	0.000E+00	1.333E-06 ·	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
359	1.621E-06	7.685E-06	0.000E+00	2.299E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
360	1.865E-06	8.909E-06	0.000E+00	2.663E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 ^
361	1.986E-06	9.977E-06	0.000E+00	2.962E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
362 363	2.339E-06	1.1982-05	0.000E+00	3.548E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
364	2.866E-06 3.659E-06	1.488E-05	0.000E+00	4.400E-07	0.0002+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
365	4.921E-06	1.927E-05 2.603E-05	0.000E+00 0.000E+00	5.688E-07 7.677E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366	7.712E-06	4.096E-05	0.000E+00	1.208E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.0002+00	0.000E+00	0.000E+00	0.000E+00
367	1.715E-05	9.185E-05	0.000E+00	2.705E-06	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
368	5.854E-05	3.1192-04	0.000E+00	9.192E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
369	4.368E-05	2.420E-04	0.000E+00	7.097E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370	2.564E-05	1.419E-04	0.000E+00	4.163E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371	1.633E-05	8.997E-05	0.000E+00	2.641E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372 373	1.150E-05 8.713E-06	6.307E-05	0.000E+00	1.852E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
374	7.057E-06	4.763E-05	0.000E+00	1.399E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
375	1.534E-06	3.847E-05 7.368E-06	0.000E+00 0.000E+00	1.131E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
376	1.775E-06	8.563E-06	0.000E+00	2.201E-07 2.556E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
377	2.061E-06	1.006E-05	0.000E+00	2.999E-07	0.000E+00 0.000E+00	0.0002+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
378	2.207E-06	1.144E-05	0.000E+00	3.384E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
379	2.732E-06	1.432E-05	0.000E+00	4.230E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
380	3.487E-06	1.826E-05	0.000E+00	5.394E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
381	4.679E-06	2.453E-05	0.000E+00	7.244E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
382	6.686E-06	3.553E-05	0.000E+00	1.047E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
383 384	1.287E-05	6.904E-05	0.000E+00	2.033E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
385	2.632E-05 3.340E-05	1.388E-04 1.755E-04	0.000E+00 0.000E+00	4.097E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
386	3.647E-05	1.928E-04	0.000E+00	5.180E-06 5.688E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
387	3.405E-05	1.827E-04	0.000E+00	5.380E-06	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
388	2.781E-05	1.516E-04	0.000E+00	4.456E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
389	2.046E-05	1.122E-04	0.000E+00	3.294E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
390	1.449E-05	7.939E-05	0.000E+00	2.332E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
391 392	1.0742-05	5.887E-05	0.000E+00	1.729E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
393	8.217E-06 6.639E-06	4.499E-05 3.623E-05	0.000E+00	1.322E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
394	1.500E-06	7.339E-06	0.000E+00 0.000E+00	1.065E-06 2.187E-07	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
395	1.790E-06	8.819E-06	0.000E+00	2.625E-07	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
396	2.198E-06	1.073E-05	0.000E+00	3.199E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
397	2.442E-06 2.733E-06	1.2272-05	0.000E+00	3.644E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
398	2.733E-06	1.227E-05 1.396E-05	0.000E+00	4.135E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
399	3.169E-06	1.640E-05	0.000E+00	4.851E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
400	3.965E-06	2.0962-05	0.000E+00	6.182E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
401 402	5.805E-06	3.108E-05	0.000E+00	9.155E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
402	1.035E-05 1.706E-05	5.535E-05	0.000E+00	1.630E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
404	2.223E-05	9.007E-05 1.172E-04	0.000E+00	2.657E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
405	2.479E-05	1.304E-04	0.000E+00 0.000E+00	3.459E-06 3.848E-06	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
406	2.363E-05	1.266E-04	0.000E+00	3.728E-06	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00
407	2.036 <b>Z-</b> 05	1.101E-04	0.000E+00	3.240E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00
408	1.620E-05	8.834E-05	0.000E+00	2.596E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
409	1.269E-05	6.9142-05	0.000E+00	2.032E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
410	1.007E-05	5.492E-05	0.000E+00	1.614E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
411	8.042E-06	4.395E-05	0.000E+00	1.291E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
412	6.414E-06	3.503E-05	0.000E+00	1.029E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
413 414	2.426E-06 2.079E-06	1.221E-05	0.000E+00	3.625E-07 3.143E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
415	1.932E-06	1.061E-05 9.923E-06	0.000E+00 0.000E+00	3.1435-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
416	2.746E-06	1.433E-05	0.000E+00	2.938E-07 4.235E-07	0.000E+00 0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
417	2.507E-06	1.316E-05	0.000E+00	3.884E-07	0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
418	2.604E-06	1.363E-05	0.000E+00	4.026E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00 0.000E+00
419	3.496E-06	1.863E-05	0.000E+00	5.489E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
420	3.628E-06	1.912E-05	0.000E+00	5.643E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

4223 4223 4224 4224 4226 4229 4231 4331 4336 7899 11234 4334 4339 4444 4444 4444 4444 4444 4	3.500E-06 5.408E-06 4.727E-06 8.718E-06 7.646E-06 1.303E-05 1.067E-05 9.007E-06 1.629E-05 1.20E-05 1.791E-05 1.791E-05 1.388E-05 1.106E-05 1.388E-05 1.304E-05 1.304E-05 1.353E-05 1.353E-05 1.618E-06 1.099E-05 9.354E-06	1.809E-05 2.873E-05 2.640E-05 4.645E-05 4.045E-05 6.888E-05 5.644E-05 5.644E-05 8.609E-05 5.382E-05 9.451E-05 9.451E-05 9.498E-05 7.268E-05 5.809E-05 5.897E-05 5.897E-05 5.727E-05 7.232E-05 5.727E-05 5.727E-05 5.725E-05 6.114E-05 5.955E-05 5.955E-05 6.114E-05 5.955E-05 6.114E-05 5.955E-05 6.114E-05 6.114E-05 6.114E-05 6.114E-05 6.114E-05 6.114E-05 6.114E-05 6.114E-05 6.114E-05 6.114E-05 6.114E-05 6.114E-05 6.114E-05 6.114E-05 6.114E-05	Q.000E+00 Q.000E	3.352E-07 8.469E-07 7.788E-07 7.788E-07 1.367E-06 1.193E-06 2.032E-06 1.665E-06 1.44E-06 2.540E-06 1.588E-06 2.788E-06 2.788E-06 2.143E-06 1.73E-06 1.73E-06 1.73E-06 1.73E-06 1.73E-06 1.73E-06 1.580E-06 1.73E-06 1.73E-06 1.73E-06 1.73E-06 1.73E-06 1.73E-06 1.751E-06 1.804E-06 1.512E-06 1.751E-06 1.751E-06 1.751E-06 1.751E-06 1.751E-06 1.751E-06 1.751E-06 1.751E-06 1.751E-06	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00 0.000E+00	0.000E+00
447	9.354E-06	5.080E-05	0.000E+00	1.493E-06	0.000E+00	0.000E+00				

0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, TSP \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS, 93288 \* Input File: g:\beest\GQ\gqtspace.dat Output File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 100

# \*\*\* PREDICTED ANNUAL CONCENTRATIONS (ug/m3) FROM ALL SOURCES \*\*\*

1 9.288E-06 8.843E-01 2 1.406E-05 1.332E+00 3 1.396E-05 1.332E+00 4 1.806E-05 1.714E+00 5 1.822E-05 1.730E+00 6 1.654E-05 1.571E+00 7 1.466E-05 1.391E+00 8 1.470E-05 1.401E+00 9 1.525E-05 1.401E+00 9 1.525E-05 1.456E+00 10 1.936E-05 1.839E+00 11 7.910E-06 7.523E-01 12 3.423E-05 3.265E+00 13 1.465E-05 1.416E+00 14 1.477E-05 1.428E+00 15 1.439E-05 1.391E+00 16 1.537E-05 1.582E+00 17 8.736E-06 8.319E-01 18 1.312E-05 1.255E+00 19 1.298E-05 1.249E+00 20 1.821E-05 1.255E+00 21 1.238E-05 1.249E+00 22 1.235E-05 1.204E+00 23 1.231E-05 1.202E+00 24 1.223E-05 1.204E+00 25 1.233E-05 1.20E+00 26 1.311E-05 1.20E+00 27 1.347E-05 1.756E+00 28 1.440E-05 1.756E+00 29 1.821E-05 1.756E+00 21 1.328E-05 1.235E+00 22 1.235E-05 1.204E+00 23 1.231E-05 1.235E+00 24 1.223E-05 1.235E+00 25 1.233E-05 1.255E+00 26 1.311E-05 1.255E+00 27 1.347E-05 1.356E+00 28 1.440E-05 1.745E+00 30 1.926E-05 1.849E+00 31 2.016E-05 1.942E+00 32 2.016E-05 1.942E+00 33 2.228E-05 2.534E+00 34 2.461E-05 2.534E+00 35 2.622E-05 2.534E+00 36 2.736E-05 2.647E+00	1.406E-05 1.332E+00 3.1.396E-05 1.732E+00 4.806E-05 1.714E+00 5.1.822E-05 1.730E+00 6.1.854E-05 1.571E+00 7.1.466E-05 1.391E+00 8.1.470E-05 1.401E+00 9.1.525E-05 1.456E+00 10.1.936E-05 1.839E+00 11.7.910E-06 7.523E-01 12.3.423E-05 3.265E+00 13.1.465E-05 1.416E+00 14.477E-05 1.428E+00 15.1.439E-05 1.391E+00 16.1637E-05 1.582E+00 17.8.736E-06 8.319E-01 18.1.312E-05 1.582E+00 19.1.298E-05 1.249E+00 20.1.821E-05 1.255E+00 21.1.328E-05 1.249E+00 22.1.235E-05 1.249E+00 23.1.231E-05 1.258E+00 24.1.223E-05 1.20E+00 25.1.233E-05 1.20E+00 26.1.311E-05 1.25E+00 27.1.347E-05 1.25E+00 28.1.437E-05 1.25E+00 29.1.821E-05 1.745E+00 21.233E-05 1.249E+00 23.1.231E-05 1.25E+00 24.1.223E-05 1.235E+00 25.1.233E-05 1.249E+00 26.1.311E-05 1.745E+00 27.1.347E-05 1.395E+00 28.1.440E-05 1.376E+00 29.1.821E-05 1.745E+00 30.1.926E-05 1.935E+00 31.2.012E-05 1.935E+00 32.2.016E-05 1.935E+00 33.2.228E-05 2.151E+00 34.2.461E-05 2.534E+00 35.2.622E-05 2.534E+00	RECEPTOR	Zn	NIXPM
29 1.821E-05 1.745E+00 30 1.926E-05 1.849E+00 31 2.012E-05 1.935E+00 32 2.016E-05 1.942E+00 33 2.228E-05 2.151E+00 34 2.461E-05 2.378E+00 35 2.622E-05 2.534E+00 36 2.736E-05 2.640E+00	29 1.821E-05 1.745E+00 30 1.926E-05 1.849E+00 31 2.012E-05 1.935E+00 32 2.016E-05 1.942E+00 33 2.228E-05 2.151E+00 34 2.461E-05 2.378E+00 35 2.622E-05 2.534E+00 36 2.736E-05 2.640E+00 37 2.746E-05 2.640E+00 38 2.674E-05 2.570E+00 39 3.259E-05 3.138E+00 40 4.123E-05 3.977E+00 41 5.607E-05 5.448E+00 42 8.548E-05 8.352E+00 43 7.323E-05 7.092E+00	12345678910112311567892122345	9.288E-06 1.406E-05 1.396E-05 1.806E-05 1.822E-05 1.654E-05 1.470E-05 1.525E-05 1.936E-05 1.936E-05 1.477E-05 1.477E-05 1.439E-05 1.477E-05 1.231E-05 1.231E-05 1.231E-05 1.233E-05 1.233E-05	8.843E-01 1.332E+00 1.323E+00 1.714E+00 1.730E+00 1.571E+00 1.451E+00 1.455E+01 1.455E+00 1.456E+00 1.426E+00 1.426E+00 1.426E+00 1.426E+00 1.245E+00 1.245E+00 1.245E+00 1.245E+00 1.245E+00 1.245E+00 1.245E+00 1.245E+00 1.245E+00 1.245E+00 1.245E+00 1.202E+00 1.202E+00 1.202E+00
29 1.821E-05 1.745E+00 30 1.926E-05 1.849E+00 31 2.012E-05 1.935E+00 32 2.016E-05 1.942E+00 33 2.228E-05 2.151E+00 34 2.461E-05 2.378E+00 35 2.622E-05 2.534E+00 36 2.736E-05 2.640E+00	29 1.821E-05 1.745E+00 30 1.926E-05 1.849E+00 31 2.012E-05 1.935E+00 32 2.016E-05 1.942E+00 33 2.228E-05 2.151E+00 34 2.461E-05 2.378E+00 35 2.622E-05 2.534E+00 36 2.736E-05 2.640E+00 37 2.746E-05 2.640E+00 38 2.674E-05 2.570E+00 39 3.259E-05 3.138E+00 40 4.123E-05 3.977E+00 41 5.607E-05 5.448E+00 42 8.548E-05 8.352E+00 43 7.323E-05 7.092E+00	25	1.233E-05 1.311E-05 1.347E-05	1.261E+00 1.290E+00
34 2.461E-05 2.378E+00 35 2.622E-05 2.534E+00 36 2.736E-05 2.640E+00	34 2.461E-05 2.378E+00 35 2.622E-05 2.534E+00 36 2.736E-05 2.640E+00 37 2.746E-05 2.647E+00 38 2.674E-05 2.570E+00 39 3.259E-05 3.138E+00 40 4.123E-05 3.977E+00 41 5.607E-05 5.448E+00 42 8.548E-05 8.352E+00 43 7.323E-05 7.092E+00	29 30 31 32	1.926E-05 2.012E-05 2.016E-05	1.849E+00 1.935E+00 1.942E+00
	38 2.674E-05 2.570E+00 39 3.259E-05 3.138E+00 40 4.123E-05 3.977E+00 41 5.607E-05 5.448E+00 42 8.548E-05 8.352E+00 43 7.323E-05 7.092E+00	34 35 36	2.461E-05 2.622E-05 2.736E-05	2.378E+00 2.534E+00 2.640E+00

		3.937E+00 5.825E+00 7.549E+00 8.925E+00 9.556E+00 5.071E+00 2.344E+00 2.000E+00 2.136E+00 2.325E+00 2.432E+00
46	4.197E-05	3.937E+00
47	6.167E-05	5 825E+00
48	9 100F-06	7 6400.00
	3.105E-03	7.3496700
49	9.589E-05	8.925E+00
50 51	1.025E-04	9 556F+00
51	5 380E-05	5 0775.00
55	3.360E-03	3.0/16+00
52	3.56ZE-05	3.368E+00
53	2.579E~05	2.441E+00
54	2 065F-05	2 0008400
55	2.0032.03	2.000ET00
23	2.232E-05	2.136E+00
56	2.426E-05	2.325E+00
57	2 568E-05	2 4338+00
58	3.3365 05	2.4335100
20	3.2166-05	3.053E+00
59	3.972E-05	3.844E+00
60	4.743E-05	4 593F+00
61	5 6070-06	F 4055100
	3.667E-03	3.4935700
62	6.581E~05	6.454E+QQ
63	7.75 <b>5E-</b> 05	7.525E+00
64	7.145E-05	6 935E+00
65	4.197E-05 6.167E-05 8.109E-05 9.589E-05 1.025E-04 5.380E-05 3.562E-05 2.579E-05 2.232E-05 2.232E-05 3.216E-05 3.216E-05 3.772E-05 4.743E-05 6.681E-05 7.755E-05 7.145E-05 8.422E-05	B 1225+00
66	1 0645-04	0.1225700
20	1.054E-04 1.445E-04	1.0096701
67 68 69	1.4456-04	1.367E+01
68	1.549E-04	1.460E+01
69	1.549E-04	1 463F+01
70	1.513E-04	1 4215-01
71	9 7705-04	1.431ETU1
70 71 72	9.770E-05 7.115E-05	2.325E+00 2.433E+00 3.053E+00 4.593E+00 5.495E+00 6.455E+00 6.935E+00 8.122E+00 1.367E+01 1.460E+01 1.463E+01 1.463E+01 1.431E+01 9.297E+00 6.820E+00 5.142E+00 4.320E+00
12	/.115E-05	6.820E+00
73	5.405E-05 4.462E-05	5.142E+00
74	4 462F-05	4 320E+00
75	4 1318-05	7.3205700
43	4.1315-03	3.949E+00
/6	3.727E-05	3.532E+00
73 74 75 76 77	4.131E-05 3.727E-05 3.217E-05	3.047E+00
78	5.86/E-05 6.68/E-05 7.755E-05 7.145E-05 8.422E-05 1.054E-04 1.549E-04 1.549E-04 1.513E-05 5.405E-05 4.405E-05 4.131E-05 3.727E-05 3.151E-05 3.151E-05 3.151E-05 4.136E-05 4.871E-05 5.819E-05 6.189E-05	5.142E+00 4.320E+00 3.949E+00 3.532E+00 3.532E+00 3.057E+00 3.333E+00 3.333E+00 4.571E+00 5.029E+00 5.452E+00 5.796E+00 1.986E+00
79	3 1578-05	2.0302700
	3.1315-03	3.05/E+00
80	3.524E-05	3.333E+00
81	4.136E-05	3.897E+00
82	4.871E-05 5.365E-05 5.819E-05	4 5718-00
83	5 365F-05	5 0000
84	5.3036-03	3.029ET00
	3.819E-05	5.452E+00
85	6.189E-05	5.796E+00
86	5.993E-05	5 6228+00
87	5.993E-05 3.138E-05	2 9795100
88	5.993E-05 3.138E-05 2.077E-05	5.622E+00 2.978E+00 1.986E+00 1.447E+00
	2.077E-05 1.505E-05	1.986E+00
89	1.505E-05	1.447E+00
90		1.986E+00 1.447E+00 1.361E+00
91	1.410E-05 6.892E-05 6.670E-05 6.411E-05 6.136E-05 5.872E-05 5.635E-05	1.361E+00 6.497E+00 6.292E+00
92	6.670E-05	6.497E+00 6.292E+00
	0.8/UE-UJ	6.292E+00 6.055E+00 5.808E+00 5.568E+00
93	6.411E-05 6.136E-05 5.872E-05 5.635E-05 5.404E-05	6.055E+00
94	6.136E-05	5.808E+00 5.568E+00 5.347E+00 5.144E+00 4.837E+00 4.596E+00 4.307E+00 7.421E+00 7.421E+00 6.781E+00 6.444E+00 6.135E+00
95	5.872E-05	5 568E+00
96	5 635E-05	5.3472+00
	5.635E-05 5.404E-05	5.347E+00 5.144E+00 4.837E+00 4.596E+00 4.307E+00 4.084E+00 3.908E+00 7.421E+00 7.127E+00 6.781E+00
97	3.4046-05	5.144E+00
98	5.086E-05	4.837E+00
99	5.086E-05 4.805E-05 4.497E-05 4.232E-05 4.000E-05 7.875E-05 7.554E-05 7.175E-05 6.798E-05	4.596E+00
100	4.497E-05	4 307E+00
101	4.232E-05	4.00/ET00
102	4.0000.05	4.0045700
102	4.000E-05	3.908E+00
101 102 103 104 105	7.875E-05	7.421E+00
104	7.554E-05	7.127E+00
105	7.175E-05	6 781E+00
106	6 700E-06	0.761E700
100	5.404E-05 5.086E-05 4.897E-05 4.497E-05 4.232E-05 4.000E-05 7.875E-05 7.554E-05 7.175E-05 6.798E-05	6.444E+00
107 108	0.46ZE-U3	6.135E+00 5.836E+00
	6.136E-05	5.836E+00
109	5.797E-05	5.530E+00
110	5.416E-05	5 100E+00
111	5.4102-03	5.188E+00
111	5.046E-05	4.842E+00
112	4.709E-05	4.536E+00
113	4.396E-05	4.249E+00
114	4.135E-05	4.038E+00
115	9.192E-05	9 6 5 0 E + 0 O
116	9 704E-05	8.658E+00
770	8.704E-05 8.120E-05	8.214E+00 7.681E+00
117	8.120E-05	7.681E+00
118	7.594E-05	7.210E+00
119	7.149E-05	6.826E+00
120	7.594E-05 7.149E-05 6.643E-05	0.028E700
120	6.6434-03	6.345E+00
121	6.165E-05 5.717E-05 5.303E-05	5.898E+00
122	5.717E-05	5.501E+00 5.115E+00
123	5.303E-05	5 115F+00
124	4.986E-05	4 964E+00
	4 607E-05	4.864E+00
125	4.627E-05	4.507E+00
126	4.292E-05	4.183E+00
127	1.105E-04	1.040E+01
128	1.030E-04	9.714E+00
129	0 224E-06	7./14ETUU
	9.334E-05	8.845E+00 8.255E+00
130	o.608E-05	8.255E+00
131	7.848E-05	7.555E+00
132	8.608E-05 7.848E-05 7.173E-05 6.522E-05	7.555E+00 6.928E+00 6.269E+00
133	6 5225-05	6 260E+00
134	£ 063E-05	5 000 TLTUU
		5.881E+00
135	3.624E-05	5.467E+00
136	5.624E-05 5.218E-05	5.067E+00
137	4.8365-05	4.702E+00
138	4.483E-05	4.364E+00
139	1 4055-04	1 224544
	1.405E-04 1.290E-04	1.326E+01
140	1.2902-04	1.2ZZE+01
141	1.104E-04 9.476E-05	1.222E+01 1.053E+01
142	9.476E-05	9.092E+00

114456789012345678901234567890123345678901233456789012322222222222222222222222222222222222	8.407E=-055 6.385E-055 6.386E-055 6.386E-055 6.386E-055 5.407E=-055 5.407E=-055 5.407E=-055 5.407E=-055 5.407E=-055 5.407E=-055 5.407E=-055 5.399E=-055 5.399E=-055 5.399E=-055 5.399E=-055 5.399E=-055 5.399E=-055 5.393E=-055 5.393E=-055 5.393E=-055 5.393E=-055 5.393E=-055 5.393E=-055 6.273E=-05	8.100E+00 7.341E+00 6.708FE+00 5.731E+00 6.708FE+00 5.731EE+00 5.731EE+00 4.560EE+00 7.08EE+00 6.195E+00 6.195E+00 6.195E+00 6.195E+00 6.195E+00 6.195E+00 6.195E+00 3.705E+00
--	--	--

240	1.417E-05	1.343E+00
241	1.367E-05	1.293E+00
242	1.355E-05	1.285E+00
243	1.355E-05 1.292E-05	1.285E+00 1.232E+00
244	1.200E-05	1.149E+00
245	1.072E-05	1.027E+00
246	1.992E-06	1.943E-01
247	2.458E-06	2.400E-01
248	1.992E-06 2.458E-06 3.015E-06 4.594E-06 5.820E-06 7.688E-05 1.068E-05 1.798E-05 2.032E-05 2.032E-05 1.790E-05 1.790E-05 1.753E-05 1.436E-05 1.753E-05	2 9278-01
249	3.013E-06	2.72/5-01
250	3.71UE-06	3.3645-01
250	4.3945-06	4.422E-01
251	5.820E-06	5.579E-01
252 253	7.688E-06	7.339E-01
253	1.068E-05	1.016E+00
254	1.435E-05	1.363E+00
255 256	1.798E-05	1.706E+00
256	2.032E-05	1 927E+00
257	2 035E-05	1 931F+00
258	1 9118-05	1 9135+00
259	1.7116-03	1.0135700
260	1.7905-03	1.6735700
260	1./332-03	1.659E+00
261	1.639E-05	1.560E+00
262	1.476E-05	1.413E+00
263	1.308E-05	1.252E+00
264	1.107E-05	1.059E+00
265	2.002E-06	1.961E-01
266	2.333E-06	2.275E-01
267	2.864E-06	2 793E-01
268	3 594F-06	3 4905-01
269	4 628E-06	4 A44E-01
269 270	2.864E-06 3.594E-06 6.012E-06 8.146E-06 1.160E-05 1.700E-05 2.287E-05 2.658E-05 2.516E-05 2.370E-05 1.917E-05 1.633E-05 1.088E-05 1.088E-06 2.387E-06 2.387E-06 3.538E-06 4.503E-06 8.459E-06 8.459E-06 8.459E-05 1.737E-05 2.145E-05 1.737E-05 1.737E-05 1.737E-05 1.737E-05 1.737E-05 1.737E-05 1.737E-06 3.558E-06 4.505E-06	1.149E+00 1.027E+00 1.027E+00 1.040E-01 2.400E-01 2.400E-01 3.582E-01 3.582E-01 1.363E+00 1.363E
271	0.0125-06	3.//UE-01
271 272 273	0.1462-06	/./86E-01
2/2	1.160E-05	1.103E+00
273	1.700E-05	1.614E+00
2.74	2.287E-05	2.189E+00
275 276	2.658E-05	2.525E+00
276	2.652E-05	2.514E+00
277	2.516E-05	2.381E+00
278	2.370E-05	2 241E+00
277 278 279	2 226F-05	2 1115+00
280	1 917F-05	1 922E±00
281	1 6335-05	1.6325700
282	1.0335-05	1.3035700
283	1.3035-05	1.3025700
	1.0885-05	1.038E+00
284	2.045E-06	2.005E-0
285	2.387E-06	2.342E-01
286 287	2.846E-06	2.775E-01
287	3.538E-06	3.436E-01
288	4.503E-06	4.361E-01
289	6.033E-06	5.810E-01
290	8.459E-06	8.099E-01
291	1.272E-05	1.210E+00
291 292 293 294 295	2.145E-05	2.091E+00
293	3.025E-05	2 864E+00
294	1 737E-05	1 658F+0
295	1 339F-05	1 2778+00
296	1 001E-05	9 5/28-01
297	1.001E 05	1 9178-01
298	2 2275-06	7.01/5-0.
299	2.23/E-06	2.2025-01
300	2.7335-06	2.0925-0.
300	3.354E-06 4.355E-06	3.280E-0
301 302	4.333E-06 5.968E-06	4.22/E-U.
	3.7002 00	5./53E-0
303	8.675E-06	8.314E-0
304	1.372E-05 2.515E-05 1.753E-05	1.307E+0
305	2.515E-05	2.383E+0
306	1.753E-05	1.667E+0
307	1.2335-03	1.191E+0
308	9 278E-06	A BIRE-U
30 <del>9</del>	1.504E-06	1.504E-0
310	1.875E-06	1.858E-0
311 312	1.875E-06 2.375E-06	1.504E-0: 1.858E-0: 2.341E-0:
312	3 0500-06	2 99AF-0
313	3 965F-06	3 8778-0
313 314 315	3.965E-06 5.504E-06 8.175E-06	2.994E-0 3.877E-0 5.340E-0 7.879E-0
315	8 175F-06	7 870E-0
316	1 2705-05	7.079E~U.
316 317	1.370E-05 3.007E-05	1.309E+00
318	3.00/E-03	2.840E+00
310	1.606E-05	1.326210
319 320	1.095E-05 8.171E-06	1.0416+0
320	0.1/1E-06	/.//ZE-0
321	1.296E-06 1.554E-06 1.877E-06	2.540E+00 1.526E+00 1.041E+00 7.772E-0 1.307E-0 1.574E-0 1.881E-0 2.362E-0 3.189E-0
322	1.3345-06	1.5/4E-0
323	1.877E-06	1.881E-0
324	2.387E-06 3.246E-06	2.362E-0
325	3.246E-06	3.189E-0
326	4.598E-06	4.501E-0
327	6.931E-06 1.211E-05	4.501E-0 6.723E-0 1.165E+0
328	1.211E-05	
329	3.014E-05	7 257FIN
330	1.378E-05	1.307E+0
331	1.378E-05 1.001E-05	9.514E-0
332	7.904E-06	1.307E+00 9.514E-00 7.519E-0
333	7.904E-06 1.210E-06	1.189E-0
334	1.403E-06	1.3/9E-0
335	1.666E-06	1.643E-0
336	2.049E-06	2.028E-0
	D. 0475 '00	4.0405-0

333334456789012345678901233456789012334567890123456789001234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890012345678900123456789001234567890012345678900123456789001234567890012345678900123456789001234567890012345678900123456789000000000000000000000000000000000000	2.623E-066 3.522E-066 3.522E-066 3.760E-055 1.817E-055 1.817E-055 1.23E-066 1.23E-066 1.23E-066 1.23E-066 1.23E-066 1.23E-066 1.23E-066 1.24E-066 1.24E-066 1.24E-066 1.24E-066 1.24E-066 1.24E-066 1.24E-066 1.254EE-066	2.607E-01 3.485E-01 5.365E-01 3.549E+00 1.723E+00 1.723E+00 1.725E-01 1.725E-01 1.725E-01 1.725E-01 1.725E-01 1.725E-01 1.725E-01 1.725E-01 1.725E-01 1.725E-01 1.725E-01 1.725E-01 1.725E-01 1.735E-01 1.735E-01 1.735E-01 1.736E-01 1.756E-01
	0.4775-00	6.076E-01 1.099E+00 8.488E-01 6.873E-01

434	1.251E-05	1.207E+00
435	9.642E-06	9.2822-01
436	7.706E-06	7.408E-01
437	1.261E-05	1.213E+00
438	9.778E-06	9.412E-01
439	7.839E-06	7.531E-01
440	1.137E-05	1.089E+00
441	9.190E-06	8.845E-01
442	7.596E-06	7.314E-01
443	9.624E-06	9.236E-01
444	8.080E-06	7.808E-01
445	6.823E-06	6.553E-01
446	7.972E-06	7.606E-01
447	6.807E-06	6.488E-01
448	5.907E-06	5.645E-01
449	6.572E-06	6.262E-01
450	5.7592-06	5.490E-01
451	5.108E-06	4.873E-01

0.000E+00 0.000E+00

GGLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, ISP - OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS, 93288 \* Input File: g:\beest\GQ\gQtspace.OUT 11/14/96 07:44:58 Page - 109

#### \*\*\*\* RECEPTOR TOTAL CANCER RISK AND EXCESS BURDEN \*\*\*

RECEPTOR	INHALE	DERMAL	son.	WATER	FLANTS	ANIMAL	MOTHER MILK	SUM	POPULATION	BURDEN
1	3.229E-07	1.939E-08	9.053E-07	0.000E+00	3.745E-07	0.000E+00	0.000E+00	1.622E-06	G	0.600E+00
2	4.865E-07	2.910E-08	1.359E-06	0.000E+00	5.624E-07	0.000E+00	0.000E+00	2.437E-06	Q	0.000E+00
3	4.831E-07	2.888E-08	1.348E-06	0.000E+00	5.581E-07	0.000E+00	0.000E+00	2.418E-06	0	0.000E+00
ŝ	6.260E-07 6.318E-07	3.751E-08	1.751E-06	0.000E+00	7.248E-07	0.000E+00	0.000E+00	3.140E-06	0	0.000E+00
6	5.738E-07	3.787E-08 3.444E-08	1.768E-06 1.608E-06	0.000E+00 0.000E+00	7.317E-07	0.000E+00	0.000E+00	3.169E-06	0	0.000E+00
7	5.081E-07	3.037E-08	1.418E-06	0.000E+00	6.653E-07 5.870E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.881E-06 2.544E-06		0.000E+00 0.000E+00
á	5.114E-07	3.07ZE-08	1.434E-06	0.000E+00	5.933E-07	0.000E+00	0.000E+00	2.570E-06	ă	0.000E+00
ğ .	5.315E-07	3.201E-08	1.495E-06	0.000E+00	6.181E-07	0.000E+00	0.000E+00	2.676E-06	ä	0.000E+00
10	6.717E-07	4.005E-08	1.870E-06	0.000E+00	7.740E-07	0.000E+00	0.000E+00	3.356E-06		0.000E+00
11	2.7472-07	1.651E-08	7.707E-07	0.000E+00	3.189E-07	0.000E+00	0.000E+00	1.381E-06		0.000E+00
11 12 13 14 15 16	1.192E-06	7.211E-08	3.367E-06	0.000E+00	1.392E-06	0.000E+00	0.000E+00	6.023E-06	Ō	0.000E+00
13	5.164E-07	3.161E-08	1.476E-06	0.000E+00	6.096E-07	0.000E+00	0.000E+00	2.634E-06		0.000E+00
14	5.208E-07	3.187E-08	1.488E-06	0.000E+00	6.146E-07	0.000E+00	0.000E+00	2.656E-06		0.000E+00
15	5.075E-07	3.102E-08	1.449E-06	0.000E+00	5.983E-07	0.000E+00	0.000E+00	2.586E-06		0.000E+00
16	5.769E-07	3.527E-08	1.647E-06	0.000E+00	6.802E-07	0.000E+00	0.000E+00	2.940E-06		0.000E+00
17 18	3.037E-07	1.530E-08	8.543E-07	0.000E+00	3.534E-07	0.000E+00	0.000E+00	1.530E-06		0.000E+00
19	4.579E-07 4.556E-07	2.776E-08 2.766E-08	1.296E-06 1.292E-06	0.000E+00 0.000E+00	5.358E-07	0.000E+00		2.318E-06		0.000E+00
20	6.383E-07	3.899E-08	1.821E-06	0.000E+00	5.337E-07 7.523E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.309E-06		0.000E+00 0.000E+00
21	4.698E-07	2.820E-08	1.317E-06	0.000E+00	5.441E-07	0.000E+00		3.250E-06 2.359E-06		0.000E+00
22	4.392E-07	2.638E-08	1.232E-06	0.000E+00	5.087E-07	0.000E+00		2.207E-06		0.000E+00
23	4.383E-07	2.633E-08	1.230E-06	0.000E+00	5.077E-07	0.000E+00		2.202E-06		0.000E+00
24	4.351E-07	2.619E-08	1,223E-06	0.000E+00	5.050E-07	0.000E+00		2.189E-06		0.000E+00
25	4.377E-07	2.639E-08	1.232E-06	0.000E+00	5.088E-07	0.000E+00		2.205E-06		0.000E+00
26	4.602E-07	2.784E-08	1.300E-06	0.000E+00	5.373E-07	0.000E+00		2.325E-06	. a	0.000E+00
21 22 23 24 25 26 27 28	4.707E-07	2.834E-08	1.323E-06	0.000E+00	5.472E-07	0.000E+00		2.370E-06		0.000E+00
28	5.025E-07	3.021E-08	1.411E-06	0.000E+00	5.834E-07	0.000E+00		2.527E-06	· o	0.000E+00
29 30	6.367E-07	3.858E-08	1.801E-06	0.000E+00	7.446E-07	0.000E+00		3.221E-06	· Q	0.000E+00
30 31	6.745E-07	4.103E-08	1.916E-06	0.000E+00	7.917E-07	0.000E+00		3.423E-06		0.000E+00
32	7.057E-07 7.083E-07	4.307E-08 4.328E-08	2.012E-06 2.022E-06	0.000E+00 0.000E+00	8.310E-07 8.350E-07	0.000E+00		3.591E-06 3.608E-06		0.000E+00 0.000E+00
33	7.844E-07	4.813E-08	2.248E-06	0.000E+00	9.282E-07	0.000E+00		4.009E-06		0.000E+00
34	8.671E-07	5.322E-08	2.485E-06	0.000E+00	1.026E-06	0.000E+00		4.432E-06		0.000E+00
35	9.242E-07	5.683E-08	2.654E-06	0.0002+00	1.096E-06	0.000E+00		4.731E-06		0.000E+00
36	9.629E-07	5.935E-08	2.772E-06	0.000E+00	1.144E-06	0.000E+00		4.939E-06		0.000E+00
37	9.650E-07	5.952E-08	2.780E-06	0.000E+00	1.148E-06	0.000E+00		4.952E-06		0.000E+00
38	9.374E-07	5.761E-08	2.691E-06	0.000E+00	1.111E-06	0.000E+00		4.797E-06		0.000E+00
39	1.144E-06	7.045E-08	3.290E-06	0.000E+00	1.359E-06	0.000E+00		5.864E-06		0.000E+00
40	1.450E-06	8.948E-08	4.179E-06	0.000E+00	1.725E-06	0.000E+00		7.444E-06		0.000E+00
41	1.991E-06	1.224E-07	5.715E-06	0.000E+00	2.358E-06	0.000E+00		1.019E-05		0.000E+00
42 43	3.045E-06 2.587E-06	1.854E-07	8.662E-06	0.000E+00	3.574E-06	0.000E+00		1.547E-05		0.000E+00
44	2.35ZE-06	1.553E-07 1.385E-07	7.251E-06 6.465E-06	0.000E+00 0.000E+00	2.996E-06 2.679E-06	0.000E+00		1.299E-01 1.163E-01		0.000E+00 0.000E+00
45	2.268E-06	1.317E-07	6.149E-06	0.000E+00	2.552E-06	0.000E+00		1.110E-0		0.000E+00
46	1.440E-06	8.425E-08	3.932E-06	0.000E+00	1.631E-06	0.000E+00		7.087E-06		0.000E+00
47	2.130E-06	1.227E-07	5.726E-06	0.000E+00	2.374E-06	0.000E+00		1.035E-0		0.000E+00
48	2.763E-06	1.590E-07	7.419E-06	0.000E+00	3.081E-06	0.000E+00		1.342E-0	Š	0.000E+00
49	3.267E-06	1.876Z-07	8.755E-06	0.000E+00	3.636E-06	G.000E+00		1.584E-0		0.000E+00
50	3.498E-06	2.010E-07	9.380E-06	0.000E+00	3.895E-06	0.000E+00	0.000E+00	1.697E-0		0.000E+00
51	1.856E-06	1.078E-07	5.032E-06	0.000E+00	2.086E-06	0.000E+00		9.082E-0		0.000E+00
52	1.231E-06	7.222E-08	3.371E-06	0.000E+00	1.3972-06	0.000E+00		6.072E-0		0.000E+00
53	8.921E-07	5.276E-08	2.463E-06	0.000E+00	1.020E-06	0.000E+00		4.428E-0		0.000E+00
54 55	7.306E-07 7.812E-07	4.297E-08 4.612E-08		0.000E+00	8.296E-07	0.000E+00		3.610E-0		0.0002+00
33 56	8.501E-07	5.005E-08		0.000E+00 0.000E+00	8.911E-07 9.669E-07	0.000E+00		3.872E-00		0.000E+00 0.000E+00
57	8.890E-07	5.280E-08		0.000E+00	1.021E-06	0.000E+0		4.427E-0		0.000E+00
٠,٠	2.0502-07	J. 2005-00	2,7025-00	0.0005700	a. vale "VO	J. GGGETG	J. 0002700	7.74/570	, ,	4.0005.00

60									
58 59	1.115E-06				1.279E-06		0.000E+00	5.548E-06	0 0.000E+00
60	1.403E-06		3.860E-06		1.596E-06		0.000E+00	6.942E-06	0 0.000E+00
61	1.676E-06	9.915E-08	4.630E-06	0.000E+00	1.914E-06		0.000E+00	8.319E-06	0 0.000E+00
62	2.005E-06	1.191E-07	5.563E-06	0.000E+00	2.300E-06	0.000E+00	0.000E+00	9.987E-06	0 0.000E+00
63	2.355E-06	1.403E-07	6.551E-06	0.000E+00	2.708E-06		0.000E+00	1.175E-05	0 0.000E+00
64	2.745E-06		7.647E-06	0.000E+00	3.160E-06		0.000E+00	1.371E-05	0 0.000E+00
65	2.531E-06	1.507E-07	7.038E-06	0.000E+00	2.908E-06		0.000E+00	1.263E-05	0 0.000E+00
	2.963E-06	1.765E-07	8.244E-06	0.000E+00	3.408E-06		0.000E+00	1.479E-05	0 0.000E+00
66 67	3.684E-06	2.176E-07	1.016E-05	0.000E+00	4.204E-06		0.000E+00	1.826E-05	0 0.000E+00
68	4.995E-06	2.918E-07	1.362E-05	0.000E+00	5.644E-06		0.000E+00	2.455E-05	0 0.000E+00
69	5.341E-06	3.113E-07	1.453E-05	0.000E+00	6.025E-06		0.000 <b>E+0</b> 0	2.621E-05	0 0.000E+00
70	5.348E-06	3.111E-07	1.452E-05	0.000E+00	6.019E-06		0.000E+00	2.620E-05	0 0.000E+00
71	5.230E-06	3.033E-07	1.416E-05	0.000E+00	5.869E-06	0.000E+00	0.000E+00	2.556E-05	0 0.000E+00
72	3.396E-06	1.987E-07	9.278E-06	0.000E+00	3.843E-06		0.000E+00	1.672E-05	0 0.000E+00
73	2.490E-06	1.463E-07	6.829E-06	0.000E+00	2.826E-06		0.000E+00	1.229E-05	0 0.000E+00
74	1.879E-06	1.113E-07	5.198E-06	0.000E+00	2.152E-06		0.000E+00	9.340E-06	0 0.000E+00
75	1.576E-06 1.444E-06	9.301E-08	4.343E-06	0.000E+00	1.796E-06		0.000E+00	7.808E-06	0 0.000E+00
76		8.539E-08	3.987E-06	0.000E+00	1.650E-06		0.000E+00	7.166E-06	0 0.000E+00
77	1.291E-06 1.114E-06	7.657E-08	3.575E-06	0.000E+00	1.480E-06		0.000E+00	6.422E-06	0 0.000E+00
78	9.638E-07	6.604E-08	3.083E-06	0.000E+00	1.277E-06		0.000E+00	5.540E-06	0 0.000E+00
79 79	1.117E-06	5.668E-08	2.647E-06	0.000E+00	1.095E-06		0.000E+00	4.762E-06	0 0.000E+00
8ó	1.219E-06	6.518E-08	3.043E-06	0.000E+00	1.258E-06		0.000E+00	5.484E-06	0 0.000E+00
81	1.425E-06	7.169E-08	3.347E-06	0.000E+00	1.387E-06		0.000E+00	6.024E-06	0 0.000E+00
82	1.671E-06	8.355E-08 9.770E-08	3.900E-06		1.617E-06		0.000E+00	7.025E-06	0 0.000E+00
83	1.839E-06	1.074E-07	4.560E-06	0.000E+00	1.891E-06		0.000E+00	8.221E-06	0 0.000E+00
84	1.994E-06	1.163E-07	5.012E-06 5.429E-06	0.000E+00	2.079E-06		0.000E+00	9.037E-06	0 0.000E+00
85	2.120E-06	1.235E-07	5.765E-06	0.000E+00	2.252E-06		0.000E+00	9.792E-06	0 0.000E+00
86	2.056E-06	1.200E-07	5.600E-06	0.000E+00	2.391E-06		0.000E+00	1.040E-05	0 0.000E+00
87	1.088E-06	6.460E-08	3.016E-06	0.000E+00 0.000E+00	2.323E-06		0.000E+00	1.010E-05	0 0.000E+00
88	7.252E-07	4.335E-08	2.024E-06	0.000E+00	1.249E-06 8.372E-07	0.000E+00 0.000E+00	0.000E+00	5.417E-06	0 0.000E+00
89	5.282E-07	3.166E-08	1.479E-06	0.000E+00	6.113E-07	0.000E+00	0.000E+00	3.630E-06	0 0.000E+00
90	4.966E-07	2.978E-08	1.391E-06	0.000E+00	5.748E-07		0.000E+00	2.650E-06	0 0.000E+00
91	2.374E-06	1.406E-07	6.564E-06	0.000E+00			0.000E+00	2.492E-06	0 0.000E+00
92	2.299E-06	1.363E-07	6.363E-06	0.000E+00	2.719E-06 2.636E-06	0.000E+00 0.000E+00	0.000E+00	1.180E-05	0 0.000E+00
93	2.212E-06	1.313E-07	6.132E-06	0.000E+00	2.540E-06	0.000E+00	0.000E+00	1.143E-05	0 0.000E+00
94	2.122E-06	1.262E-07	5.890E-06	0.000E+00	2.439E-06	0.000E+00	0.000E+00 0.000E+00	1.102E-05	0 0.000E+00
95	2.034E-06	1.211E-07	5.654E-06	0.000E+00	2.341E-06	0.000E+00	0.000E+00	1.058E-05	0 0.000E+00
96	1.953E-06	1.164E-07	5.437E-06	0.000E+00	2.251E-06			1.015E-05	0 0.000E+00
97	1.878E-06	1.121E-07	5.234E-06	0.000E+00	2.166E-06	0.000E+00 0.000E+00	0.000E+00	9.757E-06	0 0.000E+00
98	1.766E-06	1.057E-07	4.935E-06	0.000E+00	2.042E-06	0.000E+00	0.000E+00	9.390E-06	0 0.000E+00
99	1.678E-06	1.003E-07	4.684E-06	0.000E+00	1.938E-06	0.000E+00	0.000E+00	8.849E-06	0 0.000E+00
100	1.572E-06	9.411E-08	4.394E-06	0.000E+00	1.817E-06	0.000E+00	0.000E+00 0.000E+00	8.400E-06 7.878E-06	0 0.000E+00
101	1.491E-06	8.903E-08	4.157E-06	0.000E+00	1.718E-06	0.000E+00	0.000E+00		0 0.000E+00
102	1.425E-06	8.480E-08	3.960E-06	0.000E+00	1.636E-06	0.000E+00	0.000E+00	7.455E-06 7.106E-06	0 0.000E+00
103	2.712E-06	1.604E-07	7.489E-06	0.000E+00	3.103E-06	0.000E+00	0.000E+00	1.346E-05	0 0.000E+00
104	2.605E-06	1.543E-07	7.203E-06	0.000E+00	2.984E-06	0.000E+00	0.000E+00	1.295E-05	0 0.000E+00 0 0.000E+00
105	2.478E-06	1.471E-07	6.865E-06	0.000E+00	2.843E-06	0.000E+00	0.000E+00	1.233E-05	
106	2.354E-06	1.400E-07	6.535E-06	0.000E+00	2.706E-06	0.000E+00	0.000E+00	1.173E-05	
107	2.241E-06	1.335E-07	6.231E-06	0.000E+00	2.579E-06	0.000E+00	0.000E+00	1.118E-05	0 0.000E+00 0 0.000E+00
108	2.131E-06	1.271E-07	5.935E-06	0.000E+00	2.456E-06	0.000E+00	0.000E+00	1.065E-05	0 0.000E+00
109	2.019E-06	1.206E-07	5.631E-06	0.000E+00	2.330E-06	0.000E+00	0.000E+00	1.010E-05	0 0.000E+00
110	1.894E-06	1.132E-07	5.284E-06	0.000E+00	2.185E-06	0.000E+00	0.000E+00	9.476E-06	0 0.000E+00
111	1.768E-06	1.057E-07	4.935E-06	0.000E+00	2.041E-06	0.000E+00	0.000E+00	8.849E-06	0 0.000E+00
112	1.656E-06	9.893E-08	4.620E-06	0.000E+00	1.910E-06	0.000E+00	0.000E+00	8.284E-06	0 0.000E+00
113	1.551E-06	9.262E-08	4.325E-06	0.000E+00	1.788E-06	0.000E+00	0.000E+00	7.756E-06	0 0.000E+00
114	1.472E-06	8.772E-08	4.097E-06	0.000E+00	1.692E-06	0.000E+00	0.000E+00	7.349E-06	0 0.000E+00
115	3.165E-06	1.869E-07	8.723E-06	0.000E+00	3.614E-06	0.000E+00	0.000E+00	1.569E-05	0 0.000E+00
116	3.002E-06	1.776E-07	8.291E-06	0.000E+00	3.435E-06	0.000E+00	0.000E+00	1.490E-05	0 0.000E+00
117	2.807E-06	1.664E-07	7.771E-06	0.000E+00	3.218E-06	0.000E+00	0.000E+00	1.396E-05	0 0.000E+00
118	2.634E-06	1.565E-07	7.307E-06	0.000E+00	3.025E-06	0.000E+00	0.000E+00	1.312E-05	0 0.000E+00
119	2.494E-06	1.482E-07	6.919E-06	0.000E+00	2.863E-06	0.000E+00	0.000E+00	1.242E-05	0 0.000E+00
120 121	2.317E-06	1.382E-07	6.452E-06	0.000E+00		0.000E+00	0.000E+00	1.158E-05	0 0.000E+00
122		1.287E-07		0.000E+00	2.486E-06	0.000E+00	0.000E+00	1.078E-05	0 0.00 <b>0E+00</b>
123	2.008E-06	1.199E-07	5.599E-06	0.000E+00	2.315E-06	0.000E+00	0.000E+00	1.004E-05	0 0.000E+00
124	1.867E-06 1.774E-06	1.115E-07	5.205E-06	0.000E+00	2.151E-06	0.000E+00	0.000E+00	9.334E-06	0 0.000E+00
124 125	1.643E-06	1.054E-07 9.789E-08	4.923E-06 4.572E-06	0.000E+00	2.033E-06	0.000E+00	0.000E+00	8.837E-06	0 0.000E+00
126	1.525E-06	9.098E-08	4.249E-06	0.000E+00	1.888E-06	0.000E+00	0.000E+00	8.201E-06	0 0.000E+00
127	3.803E-06	2.239E-07	1.045E-05	0.000E+00 0.000E+00	1.755E-06 4.332E-06	0.000E+00 0.000E+00	0.000E+00	7.620E-06	0 0.000E+00
127 128	3.551E-06	2.096E-07	9.783E-06	0.000E+00	4 0535-06	0.000E+00	0.000E+00 0.000E+00	1.881E-05 1.760E-05	0 0.000E+00 0 0.000E+00
129	3.232E-06	1.913E-07	8.931E-06	0.000E+00	4.053E-06 3.699E-06	0.000E+00	0.000E+00	1.605E-05	0 0.000E+00 0 0.000E+00
130	3.013E-06	1.783E-07	8.325E-06	0.000E+00	3.444E-06	0.000E+00	0.000E+00	1.496E-05	0 0.000E+00
131	2.757E-06	1.637E-07	7.643E-06	0.000E+00	3.160E-06	0.000E+00	0.000E+00	1.372E-05	0 0.000E+00
132	2.529E-06	1.503E-07	7.021E-06	0.000E+00	2.902E-06	0.000E+00	0.000E+00	1.260E-05	0 0.000E+00
133	2.288E-06	1.367E-07	6.385E-06		2.640E-06	0.000E+00	0.000E+00	1.145E-05	0 0.000E+00
134	2.145E-06	1.278E-07	5.966E-06	0.000E+00	2.465E-06	0.000E+00	0.000E+00	1.070E-05	0 0.000E+00
135	1.994E-06	1.187E-07	5.542E-06	0.000E+00	2.290E-06	0.000E+00	0.000E+00	9.944E-06	0 0.000E+00
136	1.848E-06	1.102E-07	5.146E-06	0.000E+00	2.126E-06	0.000E+00	0.000E+00	9.230E-06	0 0.000E+00
137	1.715E-06	1.022E-07	4.775E-06	0.000E+00	1.972E-06		0.000E+00	8.564E-06	0 0.000E+00
138	1.591E-06	9.493E-08	4.433E-06	0.000E+00	1.831E-06		0.000E+00	7.951E-06	0 0.000E+00
139	4.851E-06	2.835E-07	1.324E-05	0.000E+00	5.486E-06	0.000E+00	0.000E+00	2.386E-05	0 0.000E+00
140	4.466E-06	2.617E-07	1.222E-05	0.000E+00	5.061E-06	0.000E+00	0.000E+00	2.201E-05	0 0.000E+00
141	3.846E-06	2.265E-07	1.057E-05		4.378E-06	0.000E+00	0.000E+00	1.902E-05	0 0.000E+00
142	3.319E-06	1.968E-07	9.187E-06	0.000E+00		0.000E+00	0.000E+00	1.650E-05	0 0.000E+00
143	2.956E-06	1.760E-07	8.218E-06	0.000E+00	3.398E-06	0.000E+00	0.000E+00	1.475E-05	0 0.000E+00
144	2.678E-06	1.596E-07	7.454E-06	0.000E+00	3.081E-06 2.815E-06	0.000E+00	0.000E+00	1.337E-05	0 0.000E+00
145	2.447E-06	1.459E-07	6.813E-06	0.000E+00	2.815E-06	0.000E+00	0.000E+00	1.222E-05	0 0.000E+00
146	2.260E-06	1.347E-07	6.289E-06	0.000E+00	2.598E-06	0.000E+00	0.000E+00	1.128E-05	0 0.000E+00
147	2.090E-06	1.246E-07	5.817E-06	0.000E+00	2.403E-06		0.000E+00	1.044E-05	0 0.000E+00
148	1.935E-06	1.153E-07	5.386E-06	0.000E+00	2.226E-06		0.000E+00	9.662E-06	0 0.000E+00
149	1.795E-06	1.071E-07	5.001E-06	0.000E+00	2.066E-06	0.000E+00	0.000E+00		0 0.000E+00
150 151	1.663E-06		4.634E-06	0.000E+00	1.914E-06	0.000E+00	0.000E+00		0 0.000E+00
152	2.583E-06 2.385E-06	1.540E-07 1.422E-07	7.191E-06	0.000E+00	2.971E-06		0.000E+00		0 0.000E+00
153	2.210E-06		6.641E-06 6.154E-06	0.000E+00		0.000E+00	0.000E+00		0 0.000E+00
154	2.210E-06					0.000E+00	0.000E+00		0 0.000E+00
		1.2105-0/	J. 3/ 7E-Ub	U.JUVETUU	2.34/2-06	0.000E+00	U. UUUE+00	1.019E-05	0 0.000E+00

155	1.906E-06	1.136E-07	5.307E-06	0.000E+00	2 1027-06	0.0007.00	0.0000100	0 6100 06	
156	1.761E-06	1.048E-07	4.892E-06		2.193E-06	0.000E+00	0.000E+00	9.519E-06	0 0.000E+00
157	1.351E-06	7.971E-08		0.000E+00	2.022E-06	0.000E+00	0.000E+00	8.779E-06	0 0.000E+00
158	1.381E-06	8.168E-08	3.723E-06	0.000E+00	1.538E-06	0.000E+00	0.000E+00	6.692E-06	0 0.000E+00
			3.814E-06	0.000E+00	1.577E-06	0.000E+00	0.000E+00	6.853E-06	0 0.000E+00
159	1.329E-06	7.927E-08	3.701E-06	0.000E+00	1.532E-06	0.000E+00	0.000E+00	6.642E-06	0 0.000E+00
160	1.292E-06	7.688E-08	3.589E-06	0.000E+00	1.486E-06	0.000E+00	0.000E+00	6.444E-06	0 0.000E+00
161	1.228E-06	7.302E-08	3.409E-06	0.000E+00	1.412E-06	0.000E+00	0.000E+00	6.121E-06	0 0.000E+00
162	1.168E-06	6.957E-08	3.248E-06	0.000E+00	1.345E-06	0.000E+00	0.000E+00	5.831E-06	0 0.000E+00
163	1.123E-06	6.697E-08	3.127E-06	0.000E+00	1.294E-06	0.000E+00	0.000E+00	5.611E-06	0 0.000E+00
164	1.046E-06	6.261E-08	2.923E-06	0.000E+00	1.210E-06	0.000E+00	0.000E+00	5.242E-06	0 0.000E+00
165	9.431E-07	5.669E-08	2.647E-06	0.000E+00	1.095E-06	0.000E+00	0.000E+00	4.741E-06	0 0.000E+00
166	8.325E-07	5.028E-08	2.348E-06	0.000E+00	9.707E-07	0.000E+00	0.000E+00	4.201E-06	0 0.000E+00
167	7.440E-07	4.501E-08	2.102E-06	0.000E+00	8.689E-07	0.000E+00	0.000E+00	3.760E-06	0 0.000E+00
168	1.664E-06	9.908E-08	4 626E-06	0.000E+00	1.915E-06	0.000E+00	0.000E+00	8.304E-06	
169	1.664E-06	9.900E-08	4.622E-06	0.000E+00	1.914E-06	0.000E+00	0.000E+00	8.299E-06	
170	1.592E-06	9.451E-08	4.412E-06	0.000E+00	1.828E-06	0.000E+00	0.000E+00	7.926E-06	0 0.000E+00
171	1.494E-06	8.887E-08	4.149E-06	0.000E+00	1.718E-06	0.000E+00	0.000E+00		0 0.000E+00
172	1.405E-06	8.377E-08	3.911E-06	0.000E+00	1.619E-06			7.451E-06	0 0.000E+00
173	1.313E-06	7.843E-08	3.662E-06	0.000E+00	1.6175-06	0.000E+00	0.000E+00	7.019E-06	0 0.000E+00
174	1.172E-06	7.026E-08	3.281E-06		1.516E-06	0.000E+00	0.000E+00	6.568E-06	0 0.000E+00
175	1.023E-06	6.148E-08	2.871E-06	0.000E+00	1.357E-06	0.000E+00	0.000E+00	5.880E-06	0 0.000E+00
176	8.831E-07	5.335E-08	2.492E-06	0.000E+00	1.187E-06	0.000E+00	0.000E+00	5.142E-06	0 0.000E+00
177	7.827E-07	4.726E-08	2.207E-06	0.000E+00	1.030E-06	0.000E+00	0.000E+00	4.458E-06	0 0.000E+00
178	2.254E-06	1.328E-07		0.000E+00	9.123E-07	0.000E+00	0.000E+00	3.949E-06	0 0.000E+00
179	2.162E-06		6.202E-06	0.000E+00	2.567E-06	0.000E+00	0.000E+00	1.116E-05	0 0.000 <b>E+0</b> 0
180	2.025E-06	1.281E-07	5.980E-06	0.000E+00	2.477E-06	0.000E+00	0.000E+00	1.075E-05	0 0.000E+00
181	1.852E-06	1.201E-07 1.103E-07	5.609E-06	0.000E+00	2.323E-06	0.000E+00	0.000E+00	1.008E-05	0 0.000E+00
182	1.715E-06		5.148E-06	0.000E+00	2.132E-06	0.000E+00	0.000E+00	9.242E-06	0 0.000E+00
183	1.501E-06	1.022E-07	4.771E-06	0.000E+00	1.974E-06	0.000E+00	0.000E+00	8.563E-06	0 0.000E+00
184		8.982E-08	4.194E-06	0.000E+00	1.735E-06	0.000E+00	0.000E+00	7.520E-06	0 0.000E+00
185	1.331E-06	7.924E-08	3.701E-06	0.000E+00	1.528E-06	0.000E+00	0.000E+00	6.640E-06	0 0.000E+00
	1.113E-06	6.668E-08	3.114E-06	0.000E+00	1.286E-06	0.000E+00	0.000E+00	5.580E-06	0 0.000E+00
186 187	9.460E-07	5.693E-08	2.659E-06	0.000E+00	1.099E-06	0.000E+00	0.000E+00	4.760E-06	0 0.000E+00
187	8.305E-07	4.991E-08	2.331E-06	0.000E+00	9.637E-07	0.000E+00	0.000E+00	4.175E-06	0 0.000E+00
188	3.163E-06	1.855E-07	8.662E-06	0.000E+00	3.586E-06	0.000E+00	0.000E+00	1.560E-05	0 0.000E+00
189	3.010E-06	1.776E-07	8.290E-06	0.000E+00	3.435E-06	0.000E+00	0.000E+00	1.491E-05	0 0.000E+00
190	2.714E-06	1.608E-07	7.508E-06	0.000E+00	3.110E-06	0.000E+00	0.000E+00	1.349E-05	0 0.000E+00
191	2.362E-06	1.406E-07	6.564E-06	0.000E+00	2.717E-06	0.000E+00	0.000E+00	1.178E-05	0 0.000E+00
192	2.016E-06	1.205E-07	5.625E-06	0.000E+00	2.327E-06	0.000E+00	0.000E+00	1.009E-05	0 0.000E+00
193	1.704E-06	1.017E-07	4.747E-06	0.000E+00	1.962E-06	0.000E+00	0.000E+00	8.514E-06	0 0.000E+00
194	1.445E-06	8.625E-08	4.028E-06	0.000E+00	1.663E-06	0.000E+00	0.000E+00	7.223E-06	0 0.000E+00
195	1.200E-06	7.177E-08	3.352E-06	0.000E+00	1.385E-06	0.000E+00	0.000E+00	6.008E-06	0 0.000E+00
196	1.041E-06	6.201E-08	2.896E-06	0.000E+00	1.197E-06	0.000E+00	0.000E+00	5.196E-06	0 0.000E+00
197	8.755E-07	5.222E-08	2.438E-06	0.000E+00	1.009E-06	0.000E+00	0.000E+00	4.375E-06	0 0.000E+00
198	5.108E-06	2.973E-07	1.388E-05	0.000E+00	5.753E-06	0.000E+00	0.000E+00	2.504E-05	0 0.000E+00
199	4.985E-06	2.914E-07	1.360E-05	0.000E+00	5.639E-06	0.000E+00	0.000E+00	2.452E-05	0 0.000E+00
200	4.152E-06	2.439E-07	1.139E-05	0.000E+00	4.716E-06	0.000E+00	0.000E+00	2.050E-05	0 0.000E+00
201	2.355E-06	1.403E-07	6.552E-06	0.000E+00	2.707E-06	0.000E+00	0.000E+00	1.175E-05	0 0.000E+00
202	1.604E-06	9.568E-08	4.468E-06	0.000E+00	1.846E-06	0.000E+00	0.000E+00	8.014E-06	0 0.000E+00
203	1.336E-06	7.925E-08	3.701E-06	0.000E+00	1.529E-06	0.000E+00	0.000E+00	6.645E-06	0 0.000E+00
204	1.083E-06	6.444E-08	3.009E-06	0.000E+00	1.245E-06	0.000E+00	0.000E+00	5.401E-06	0 0.000E+00
205	8.800E-07	5.230E-08	2.442E-06	0.000E+00	1.011E-06	0.000E+00	0.000E+00	4.385E-06	0 0.000E+00
206	8.488E-07	5.034E-08	2.350E-06	0.000E+00	9.732E-07	0.000E+00	0.000E+00	4.223E-06	
207	8.070E-07	4.740E-08	2.213E-06	0.000E+00	9.152E-07	0.000E+00	0.000E+00	3.983E-06	
208	7.866E-08	4.710E-09	2.200E-07	0.000E+00	9.088E-08	0.000E+00	0.000E+00	3.942E-07	
209	9.026E-08	5.408E-09	2.525E-07	0.000E+00	1.044E-07	0.000E+00	0.000E+00	4.526E-07	
210	1.061E-07	6.379E-09	2.979E-07	0.000E+00	1.231E-07	0.000E+00	0.000E+00		
211	1.254E-07	7.536E-09	3.519E-07	0.000E+00	1.455E-07	0.000E+00		5.335E-07	0 0.000E+00
212	1.508E-07	9.054E-09	4.228E-07	0.000E+00	1.748E-07		0.000E+00	6.303E-07	0 0.000E+00
213	1.890E-07	1.136E-08	5.307E-07	0.000E+00		0.000E+00	0.000E+00	7.575E-07	0 0.000E+00
214	2.420E-07	1.454E-08	6.789E-07	0.000E+00	2.194E-07 2.808E-07	0.000E+00	0.000E+00	9.505E-07	0 0.000E+00
215	3.126E-07	1.878E-08	8.771E-07	0.000E+00		0.000E+00	0.000E+00	1.216E-06	0 0.000E+00
216	3.735E-07	2.248E-08	1.049E-06	0.000E+00	3.629E-07 4.341E-07	0.000E+00	0.000E+00	1.571E-06	0 0.000E+00
217	4.315E-07	2.590E-08	1.209E-06			0.000E+00	0.000E+00	1.880E-06	0 0.000E+00
218		0 7707 00	4 44 44	0.000E+00	5.004E-07	0.000E+00	0.000E+00	2.167E-06	0 0.000E+00
219	4.623E-07 4.776E-07	2.7/3E-08 2.867E-08	1.295E-06 1.339E-06	0.000E+00 0.000E+00	-J.JJJE-U/	0.000E+00	0.000E+00	2.321E-06	0 0.000E+00
220	4.479E-07		1.3375-06		5.540E-07	0.000E+00	0.000E+00	2.399E-06	0 0.000E+00
220 221	4.118E-07	2.698E-08	1.260E-06	0.000E+00	5.212E-07	0.000E+00	0.000E+00	2.256E-06	0 0.000E+00
222	3.823E-07	2.476E-08	1.156E-06	0.000E+00	4.784E-07	0.000E+00	0.000E+00	2.071E-06	0 0.000E+00
223	3.800E-07	2.282E-08 2.266E-08	1.065E-06	0.000E+00	4.411E-07			1.912E-06	0 0.000E+00
224	3.788E-07	2.267E-08	1.058E-06	0.000E+00	4.381E-07	0.000E+00	0.000E+00	1.899E-06	0 0.000E+00
225	3.698E-07	2.226E-08	1.058E-06 1.039E-06	0.000E+00	4.380E-07	0.000E+00	0.000E+00	1.898E-06	0 0.000E+00
226	3.503E-07	2.111E-08	9.858E-07	0.000E+00	4.298E-07	0.000E+00	0.000E+00	1.861E-06	0 0.000E+00
227	7.708E-08	4.633E-09		0.000E+00	4.076E-07	0.000E+00	0.000E+00	1.765E-06	0 0.000E+00
228	9.132E-08	5.473E-09	2.164E-07 2.556E-07	0.000E+00	8.934E-08	0.000E+00	0.000E+00	3.874E-07	0 0.000E+00
229	1.077E-07	6.449E-09	3.012E-07	0.000E+00	1.056E-07	0.000E+00	0.000E+00	4.580E-07	0 0.000E+00
230			J.ULZETU/	0.000E+00	1.245E-07	0.000E+00	0.000E+00	5.398E-07	0 0.000E+00
200	1 2885-07			A AAAB . AA					0 0.000E+00
	1.288E-07	7.735E-09	3.612E-07	0.000E+00	1.493E-07	0.000E+00	0.000E+00	6.471E-07	
231 232	1.288E-07 1.563E-07	7.735E-09 9.385E-09	3.612E-07 4.383E-07	0.000E+00	1.812E-07	0.000E+00	0.000E+00	7.851E-07	0 0.000E+00
232	1.288E-07 1.563E-07 1.951E-07	7.735E-09 9.385E-09 1.171E-08	3.612E-07 4.383E-07 5.469E-07	0.000E+00 0.000E+00	1.812E-07 2.262E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	7.851E-07 9.799E-07	0 0.000E+00 0 0.000E+00
232 233	1.288E-07 1.563E-07 1.951E-07 2.552E-07	7.735E-09 9.385E-09 1.171E-08 1.533E-08	3.612E-07 4.383E-07 5.469E-07 7.159E-07	0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07	0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06	0 0.000E+00 0 0.000E+00 0 0.000E+00
232 233 234	1.288E-07 1.563E-07 1.951E-07 2.552E-07 3.395E-07	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.038E-08	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 1.705E-06	0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00
232 233 234 235	1.288E-07 1.563E-07 1.951E-07 2.552E-07 3.395E-07 4.290E-07	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.038E-08 2.577E-08	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07 1.203E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 1.705E-06 2.156E-06	0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00
232 233 234 235 236	1.288E-07 1.563E-07 1.951E-07 2.552E-07 3.395E-07 4.290E-07 5.123E-07	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.038E-08 2.577E-08 3.075E-08	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07 1.203E-06 1.436E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07 4.979E-07 5.941E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 1.705E-06 2.156E-06 2.573E-06	0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00
232 233 234 235 236	1.288E-07 1.563E-07 1.951E-07 2.552E-07 3.395E-07 4.290E-07 5.123E-07 5.626E-07	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.038E-08 2.577E-08 3.075E-08 3.373E-08	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07 1.203E-06 1.436E-06 1.575E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07 4.979E-07 5.941E-07 6.518E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 1.705E-06 2.156E-06 2.573E-06 2.823E-06	0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00
232 233 234 235 236 237 238	1.288E-07 1.563E-07 1.951E-07 2.552E-07 3.395E-07 4.290E-07 5.123E-07 5.626E-07 5.728E-07	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.038E-08 2.577E-08 3.075E-08 3.373E-08 3.439E-08	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07 1.203E-06 1.436E-06 1.575E-06 1.606E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07 4.979E-07 5.941E-07 6.518E-07 6.645E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 1.705E-06 2.156E-06 2.573E-06 2.823E-06 2.877E-06	0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00
232 233 234 235 236 237 238 239	1.288E-07 1.563E-07 1.951E-07 2.552E-07 3.395E-07 4.290E-07 5.123E-07 5.626E-07 5.728E-07 5.321E-07	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.038E-08 2.577E-08 3.075E-08 3.373E-08 3.439E-08 3.203E-08	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07 1.203E-06 1.436E-06 1.575E-06 1.606E-06 1.496E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07 4.979E-07 5.941E-07 6.518E-07 6.188E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 1.705E-06 2.156E-06 2.573E-06 2.823E-06 2.877E-06 2.679E-06	0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00
232 233 234 235 236 237 238 239 240	1.288E-07 1.563E-07 1.951E-07 2.552E-07 3.395E-07 4.290E-07 5.123E-07 5.626E-07 5.728E-07 5.321E-07 4.904E-07	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.038E-08 2.577E-08 3.075E-08 3.373E-08 3.203E-08 2.936E-08	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07 1.203E-06 1.436E-06 1.575E-06 1.496E-06 1.496E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07 4.979E-07 5.941E-07 6.518E-07 6.188E-07 5.674E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 1.705E-06 2.156E-06 2.573E-06 2.827E-06 2.877E-06 2.458E-06	0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00
232 233 234 235 236 237 238 239 240	1.288E-07 1.563E-07 1.951E-07 2.552E-07 3.395E-07 4.290E-07 5.123E-07 5.728E-07 5.728E-07 4.904E-07 4.723E-07	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.038E-08 2.577E-08 3.075E-08 3.373E-08 3.439E-08 3.203E-08 2.936E-08 2.813E-08	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07 1.203E-06 1.436E-06 1.575E-06 1.606E-06 1.371E-06 1.313E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07 4.979E-07 5.941E-07 6.518E-07 6.645E-07 5.674E-07 5.674E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 1.705E-06 2.156E-06 2.573E-06 2.823E-06 2.877E-06 2.458E-06 2.358E-06	0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00
232 233 234 235 236 237 238 239 240 241 242	1.288E-07 1.563E-07 1.951E-07 2.552E-07 3.395E-07 4.290E-07 5.123E-07 5.728E-07 5.728E-07 4.904E-07 4.723E-07 4.693E-07	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.038E-08 2.5577E-08 3.075E-08 3.373E-08 3.439E-08 3.203E-08 2.936E-08 2.802E-08	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07 1.203E-06 1.436E-06 1.606E-06 1.496E-06 1.371E-06 1.313E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07 4.979E-07 5.941E-07 6.518E-07 6.645E-07 6.188E-07 5.674E-07 5.439E-07 5.416E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 1.705E-06 2.156E-06 2.573E-06 2.827E-06 2.877E-06 2.458E-06	0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00
232 233 234 235 236 237 238 239 240 241 242 243	1.288E-07 1.563E-07 1.951E-07 2.552E-07 3.395E-07 4.290E-07 5.123E-07 5.626E-07 5.728E-07 4.904E-07 4.723E-07 4.693E-07 4.497E-07	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.038E-08 2.577E-08 3.373E-08 3.439E-08 3.203E-08 2.936E-08 2.802E-08 2.802E-08	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07 1.203E-06 1.436E-06 1.575E-06 1.606E-06 1.496E-06 1.371E-06 1.313E-06 1.308E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07 4.979E-07 5.941E-07 6.518E-07 6.188E-07 5.674E-07 5.439E-07 5.432E-07 5.220E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 1.705E-06 2.156E-06 2.573E-06 2.823E-06 2.877E-06 2.679E-06 2.458E-06 2.358E-06 2.347E-06 2.261E-06	0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00
232 233 234 235 236 237 238 239 240 241 242 243 244	1.288E-07 1.563E-07 1.951E-07 2.552E-07 3.395E-07 4.290E-07 5.123E-07 5.626E-07 5.728E-07 4.723E-07 4.723E-07 4.497E-07 4.193E-07	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.038E-08 2.577E-08 3.075E-08 3.439E-08 3.203E-08 2.936E-08 2.813E-08 2.703E-08 2.703E-08	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07 1.203E-06 1.436E-06 1.575E-06 1.606E-06 1.371E-06 1.371E-06 1.313E-06 1.308E-06 1.181E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07 4.979E-07 5.941E-07 6.518E-07 6.645E-07 5.674E-07 5.439E-07 5.416E-07 5.220E-07 4.883E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 1.705E-06 2.156E-06 2.573E-06 2.823E-06 2.823E-06 2.679E-06 2.458E-06 2.358E-06 2.347E-06	0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00 0 0.000E+00
232 233 234 235 236 237 238 239 240 241 242 243 244 245	1.288E-07 1.563E-07 1.951E-07 2.552E-07 3.395E-07 5.123E-07 5.626E-07 5.728E-07 4.904E-07 4.904E-07 4.693E-07 4.193E-07 4.193E-07 3.746E-07	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.038E-08 3.075E-08 3.373E-08 3.439E-08 3.203E-08 2.936E-08 2.813E-08 2.813E-08 2.802E-08 2.703E-08 2.529E-08	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07 1.203E-06 1.436E-06 1.575E-06 1.313E-06 1.313E-06 1.313E-06 1.308E-06 1.181E-06 1.181E-06	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07 4.979E-07 5.941E-07 6.518E-07 6.188E-07 5.674E-07 5.439E-07 5.439E-07 4.883E-07 4.883E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 1.705E-06 2.156E-06 2.573E-06 2.823E-06 2.877E-06 2.679E-06 2.458E-06 2.358E-06 2.347E-06 2.261E-06	0 0.000E+00 0 0.000E+00
232 233 234 235 236 237 238 249 240 241 242 243 244 245 246	1.288E-07 1.951E-07 2.552E-07 3.395E-07 4.290E-07 5.123E-07 5.626E-07 5.321E-07 4.904E-07 4.723E-07 4.693E-07 4.193E-07 4.193E-07 7.086E-08	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.036E-08 2.537E-08 3.075E-08 3.373E-08 3.439E-08 2.936E-08 2.936E-08 2.802E-08 2.703E-08 2.703E-08 2.259E-08	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07 1.203E-06 1.436E-06 1.575E-06 1.496E-06 1.371E-06 1.313E-06 1.308E-06 1.262E-06 1.181E-06 1.985E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07 4.979E-07 6.518E-07 6.645E-07 6.188E-07 5.674E-07 5.439E-07 5.420E-07 4.883E-07 4.362E-07 8.196E-08	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 1.705E-06 2.156E-06 2.573E-06 2.823E-06 2.877E-06 2.679E-06 2.458E-06 2.358E-06 2.347E-06 2.261E-06 2.114E-06	0 0.000E+00 0 0.000E+00
232 233 234 235 236 237 239 240 241 242 243 244 245 247	1.288E-07 1.563E-07 2.552E-07 3.395E-07 4.290E-07 5.123E-07 5.626E-07 5.728E-07 4.723E-07 4.693E-07 4.497E-07 4.193E-07 3.746E-07 8.750E-08	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.038E-08 2.577E-08 3.075E-08 3.373E-08 3.203E-08 2.936E-08 2.813E-08 2.802E-08 2.703E-08 2.529E-08 4.250E-09 5.256E-09	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07 1.203E-06 1.496E-06 1.496E-06 1.371E-06 1.313E-06 1.308E-06 1.262E-06 1.181E-06 1.985E-07 2.455E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07 4.979E-07 5.941E-07 6.518E-07 6.645E-07 5.674E-07 5.439E-07 5.439E-07 4.362E-07 4.362E-07 81.196E-08	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 1.705E-06 2.156E-06 2.573E-06 2.823E-06 2.877E-06 2.458E-06 2.358E-06 2.358E-06 2.347E-06 2.261E-06 1.888E-06	0 0.000E+00 0 0.000E+00
232 233 234 235 236 237 238 239 240 2442 2443 2445 2446 247 248	1.288E-07 1.563E-07 1.951E-07 2.552E-07 3.395E-07 5.123E-07 5.626E-07 5.728E-07 4.904E-07 4.904E-07 4.693E-07 4.193E-07 4.193E-07 7.086E-08 8.750E-08	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.038E-08 3.075E-08 3.373E-08 3.439E-08 3.203E-08 2.936E-08 2.813E-08 2.813E-08 2.703E-08 2.703E-08 2.529E-08 4.250E-09 5.256E-09 6.408E-09	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07 1.203E-06 1.436E-06 1.606E-06 1.371E-06 1.313E-06 1.318E-06 1.181E-06 1.181E-06 1.181E-06 1.985E-07 2.455E-07 2.993E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07 4.979E-07 5.941E-07 6.518E-07 6.645E-07 5.674E-07 5.439E-07 5.416E-07 4.883E-07 4.362E-07 8.196E-08 1.014E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 2.156E-06 2.573E-06 2.823E-06 2.877E-06 2.458E-06 2.358E-06 2.358E-06 2.347E-06 2.261E-06 2.114E-06 1.888E-06 3.556E-07 4.396E-07 5.361E-07	0 0.000E+00 0 0.000E+00
232 233 234 235 236 237 238 240 241 244 244 244 244 247 249	1.288E-07 1.563E-07 1.951E-07 2.552E-07 3.395E-07 4.290E-07 5.123E-07 5.728E-07 5.728E-07 4.904E-07 4.723E-07 4.693E-07 4.193E-07 4.193E-07 7.086E-08 8.750E-08 1.068E-07	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.036E-08 2.0375E-08 3.075E-08 3.373E-08 3.439E-08 2.936E-08 2.936E-08 2.802E-08 2.703E-08 2.703E-08 2.259E-08 4.250E-09 5.256E-09 6.408E-09 7.843E-09	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07 1.2033E-06 1.436E-06 1.575E-06 1.496E-06 1.371E-06 1.313E-06 1.308E-06 1.308E-06 1.181E-06 1.181E-06 1.985E-07 2.455E-07 2.993E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07 4.979E-07 6.518E-07 6.518E-07 6.188E-07 5.674E-07 5.439E-07 4.883E-07 4.883E-07 4.362E-07 4.362E-08 1.014E-07 1.236E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 1.705E-06 2.156E-06 2.573E-06 2.877E-06 2.679E-06 2.679E-06 2.358E-06 2.347E-06 2.347E-06 2.261E-06 2.114E-06 1.888E-06 3.556E-07 4.396E-07	0 0.000E+00 0 0.000E+00
232 2334 2335 2336 2338 2339 2442 2442 2444 2447 2448 2447 2448 249 249	1.288E-07 1.563E-07 1.951E-07 2.552E-07 3.395E-07 4.290E-07 5.123E-07 5.626E-07 5.728E-07 4.904E-07 4.723E-07 4.693E-07 4.193E-07 3.746E-08 8.750E-08 1.068E-08 1.068E-07	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.038E-08 2.577E-08 3.373E-08 3.439E-08 3.203E-08 2.936E-08 2.813E-08 2.703E-08 2.703E-08 2.529E-08 4.250E-09 5.256E-09 6.408E-09 7.843E-09 9.682E-09	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07 1.203E-06 1.436E-06 1.575E-06 1.496E-06 1.371E-06 1.313E-06 1.308E-06 1.38E-06 1.262E-06 1.181E-06 1.985E-07 2.455E-07 2.455E-07 3.662E-07 4.521E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07 4.979E-07 5.941E-07 6.518E-07 6.645E-07 5.674E-07 5.439E-07 5.439E-07 4.883E-07 4.883E-07 4.362E-07 1.236E-08 1.014E-07 1.236E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 2.156E-06 2.573E-06 2.823E-06 2.877E-06 2.458E-06 2.358E-06 2.358E-06 2.347E-06 2.261E-06 2.114E-06 1.888E-06 3.556E-07 4.396E-07 5.361E-07	0 0.000E+00 0 0.000E+00
232 2334 2354 2356 2377 2389 240 2442 2443 2445 2445 2447 2449	1.288E-07 1.563E-07 1.951E-07 2.552E-07 3.395E-07 4.290E-07 5.123E-07 5.728E-07 5.728E-07 4.904E-07 4.723E-07 4.693E-07 4.193E-07 4.193E-07 7.086E-08 8.750E-08 1.068E-07	7.735E-09 9.385E-09 1.171E-08 1.533E-08 2.036E-08 2.0375E-08 3.075E-08 3.373E-08 3.439E-08 2.936E-08 2.936E-08 2.802E-08 2.703E-08 2.703E-08 2.259E-08 4.250E-09 5.256E-09 6.408E-09 7.843E-09	3.612E-07 4.383E-07 5.469E-07 7.159E-07 9.516E-07 1.2033E-06 1.436E-06 1.575E-06 1.496E-06 1.371E-06 1.313E-06 1.308E-06 1.308E-06 1.181E-06 1.181E-06 1.985E-07 2.455E-07 2.993E-07	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.812E-07 2.262E-07 2.961E-07 3.937E-07 4.979E-07 6.518E-07 6.518E-07 6.188E-07 5.674E-07 5.439E-07 4.883E-07 4.883E-07 4.362E-07 4.362E-08 1.014E-07 1.236E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	7.851E-07 9.799E-07 1.283E-06 2.156E-06 2.573E-06 2.823E-06 2.877E-06 2.458E-06 2.358E-06 2.358E-06 2.347E-06 2.261E-06 2.114E-06 1.848E-06 3.556E-07 4.396E-07 5.361E-07	0 0.000E+00 0 0.000E+00

252	2.679E-07	1.608E-08	7.508E-07 (	3.000E+00	3.106E-07	0.000E+00	0.000E+00 1	1.345E-06	0 0.000E+00
253	3.711E-07						0.000E+00	.863E-06	0 0.000E+00
254	4.979E-07	2.984E-08	1.393E-06 (	0.000E+00	5.766E-07			2.498E-06	0 0.000E+00
255	6.232E-07							3.128E-06 3.530E-06	0 0.000E+00 0 0.000E+00
256 257	7.038E-07 7.053E-07							3.542E-06	0 0.000E+00
258	6.621E-07				7.681E-07	0.000E+00	0.000E+00 :	3.326E-06	0 0.000E+00
259	6.185E-07	3.688E-08	1.722E-06					3.090E-06	0 0.000E+00
260	6.059E-07				6.977E-07 6.594E-07			3.025E-06 2.857E-06	0 0.000E+00 0 0.000E+00
261 262	5.694E-07 5.156E-07				6.010E-07			2.601E-06	0 0.000E+00
263	4.569E-07			0.000E+00	5.323E-07	0.000E+00	0.000E+00	2.304E-06	0 0.000E+00
264	3.864E-07				4.491E-07			1.945E-06 3.560E-07	0 0.000E+00 0 0.000E+00
265 266	7.153E-08 8.302E-08	4.247E-09 4.954E-09			8.190E-08 9.555E-08			4.149E-07	0 0.000E+00 0 0.000E+00
267	1.019E-07	6.107E-09		0.000E+00	1.178E-07	0.000E+00	0.000E+00	5.110E-07	0 0.000E+00
268	1.274E-07	7.642E-09			1.474E-07			6.393E-07	0 0.000E+00 0 0.000E+00
269 270	1.630E-07 2.107E-07	9.791E-09 1.264E-08			1.890E-07 2.440E-07			8.190E-07 1.057E-06	0 0.000E+00 0 0.000E+00
271	2.843E-07	1.705E-08			3.294E-07			1.427E-06	0 0.000E+00
272	4.030E-07	2.412E-08			4.661E-07			2.019E-06	0 0.000E+00
273 274	5.894E-07 7.997E-07	3.521E-08 4.761E-08			6.805E-07 9.197E-07	0.000E+00 0.000E+00		2.949E-06 3.990E-06	0 0.000E+00 0 0.000E+00
275	9.224E-07	5.512E-08		0.000E+00	1.065E-06			4.616E-06	0 0.000E+00
276	9.182E-07	5.506E-08	2.571E-06	0.000E+00	1.064E-06			4.608E-06	0 0.000E+00
277 278	8.698E-07 8.186E-07	5.193E-08 4.873E-08		0.000E+00 0.000E+00	1.004E-06 9.421E-07	0.000E+00 0.000E+00		4.350E-06 4.084E-06	0 0.000E+00 0 0.000E+00
279	7.711E-07	4.608E-08	2.152E-06	0.000E+00	8.906E-07	0.000E+00		3.859E-06	0 0.000E+00
280	6.686E-07	4.033E-08	1.883E-06	0.000E+00	7.788E-07	0.000E+00		3.371E-06	0 0.000E+00
281	5.705E-07 4.753E-07	3.446E-08	1.609E-06 1.336E-06	0.000E+00 0.000E+00	6.654E-07 5.525E-07	0.000E+00 0.000E+00		2.880E-06 2.392E-06	0 0.000E+00 0 0.000E+00
282 283	3.790E-07	2.861E-08 2.277E-08	1.063E-06	0.000E+00	4.399E-07	0.000E+00	0.000E+00	1.905E-06	0 0.000E+00
284	7.312E-08	4.370E-09	2.041E-07	0.000E+00	8.425E-08	0.000E+00	0.000E+00	3.658E-07	0 0.000E+00
285	8.541E-08	5.082E-09	2.374E-07	0.000E+00	9.799E-08	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.258E-07 5.047E-07	0 0.000E+00 0 0.000E+00
286 287	1.012E-07 1.254E-07	6.023E-09 7.488E-09	2.813E-07 3.497E-07	0.000E+00 0.000E+00	1.162E-07 1.445E-07	0.000E+00	0.000E+00	6.270E-07	0 0.000E+00
288	1.592E-07	9.534E-09	4.452E-07	0.000E+00	1.840E-07	0.000E+00	0.000E+00	7.979E-07	0 0.000E+00
289	2.121E-07	1.274E-08	5.950E-07	0.000E+00	2.459E-07	0.000E+00	0.000E+00	1.066E-06 1.484E-06	0 0.000E+00 0 0.000E+00
290 291	2.957E-07 4.420E-07	1.773E-08 2.644E-08	8.279E-07 1.234E-06	0.000E+00 0.000E+00	3.424E-07 5.108E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	2.214E-06	0 0.000E+00
292	7.626E-07	4.486E-08	2.095E-06	0.000E+00	8.657E-07	0.000E+00	0.000E+00	3.768E-06	0 0.000E+00
293	1.046E-06	6.229E-08	2.908E-06	0.000E+00	1.204E-06	0.000E+00	0.000E+00	5.221E-06	0 0.000E+00
294 295	6.053E-07 4.661E-07	3.647E-08 2.800E-08	1.703E-06 1.308E-06	0.000E+00 0.000E+00	7.042E-07 5.409E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.049E-06 2.343E-06	0 0.000E+00 0 0.000E+00
296	3.484E-07	2.093E-08	9.775E-07	0.000E+00	4.044E-07	0.000E+00	0.000E+00	1.751E-06	0 0.000E+00
297	6.625E-08	3.984E-09	1.861E-07	0.000E+00	7.677E-08	0.000E+00	0.000E+00	3.331E-07	0 0.000E+00
298	8.027E-08	4.822E-09	2.252E-07 2.747E-07	0.000E+00	9.292E-08 1.133E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	4.032E-07 4.920E-07	0 0.000E+00 0 0.000E+00
299 300	9.814E-08 1.196E-07	5.881E-09 7.164E-09	3.346E-07	0.000E+00	1.381E-07	0.000E+00	0.000E+00	5.996E-07	0 0.000E+00
301	1.542E-07	9.235E-09	4.313E-07	0.000E+00	1.782E-07	0.000E+00	0.000E+00	7.729E-07	0 0.000E+00
302	2.100E-07	1.257E-08	5.869E-07 8.491E-07	0.000E+00 0.000E+00	2.426E-07 3.511E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.052E-06 1.522E-06	0 0.000E+00 0 0.000E+00
303 304	3.03SE-07 4.772E-07		1.333E-06	0.000E+00	5.515E-07	0.000E+00	0.000E+00	2.390E-06	0 0.000E+00
305	8.709E-07	5.155E-08	2.407E-06	0.000E+00	9.967E-07	0.000E+00	0.000E+00	4.326E-06	0 0.000E+00
306 307	6.087E-07 4.349E-07		1.701E-06 1.216E-06	0.000E+00 0.000E+00	7.040E-07 5.032E-07	0.000E+00	0.000E+00 0.000E+00	3.050E-06 2.180E-06	0 0.000E+00 0 0.000E+00
308	3.220E-07		9.005E-07	0.000E+00	3.727E-07		0.000E+00	1.615E-06	0 0.000E+00
309	5.482E-08	3.249E-09	1.518E-07	0.000E+00	6.256E-08		0.000E+00	2.724E-07 3.381E-07	0 0.000E+00 0 0.000E+00
310 311	6.772E-08 8.535E-08		1.885E-07 2.385E-07	0.000E+00 0.000E+00	7.776E-08 9.840E-08			4.274E-07	0 0.000E+00
312	1.092E-07			0.000E+00	1.263E-07	0.000E+00	0.000E+00	5.480E-07	0 0.000E+00
313	1.414E-07	8.489E-09		0.000E+00	1.637E-07			7.100E-07	0 0.000E+00 0 0.000E+00
314 315	1.948E-07 2.875E-07	' 1.171E-08 ' 1.728E-08		0.000E+00 0.000E+00	2.258E-07 3.336E-07			9.792E-07 1.446E-06	0 0.000E+00
316	4.780E-07			0.000E+00	5.532E-07	0.000E+00	0.000E+00	2.397E-06	0 0.000E+00
317	1.038E-06	6.138E-08	2.866E-06	0.000E+00	1.187E-06			5.152E-06	0 0.000E+00 0 0.000E+00
318 319	5.572E-07 3.800E-07	7 3.324E-08 7 2.276E-08	1.552E-06 1.063E-06	0.000E+00 0.000E+00	6.425E-07 4.397E-07	0.000E+00 0.000E+00		2.785E-06 1.905E-06	0 0.000E+00
320	2.838E-07		7.957E-07	0.000E+00	3.292E-07	0.000E+00	0.000E+00	1.426E-06	0 0.000E+00
321	4.760E-08	3 2.807E-09	1.311E-07	0.000E+00	5.403E-08			2.356E-07	0 0.000E+00 0 0.000E+00
322 323	5.735E-08 6.857E-08	3.378E-09 8 4.063E-09	1.578E-07 1.898E-07	0.000E+00 0.000E+00				2.836E-07 3.406E-07	0 0.000E+00
324	8.613E-0			0.000E+00		0.000E+00		4.302E-07	0 0.000E+00
325	1.163E-0	7 6.964E-09	3.253E-07	0.000E+00	1.342E-07	7 0.000E+00		5.827E-07	0 0.000E+00
326	1.641E-0 2.452E-0	7 9.858E-09	4.605E-07	0.000E+00 0.000E+00			0.000E+00 0.000E+00	8.245E-07 1.235E-06	0 0.000E+00 0 0.000E+00
327 328	4.253E-0				4.932E-07	7 0.000E+00			0 0.000E+00
328 329	1.044E-0	6 6.198E-08	3 2.894E-06	0.000E+00	1.198E-0	6 0.000E+00			0 0.000E+00 0 0.000E+00
330	4.775E-0		B 1.334E-06 B 9.744E-07			7 0.000E+00 7 0.000E+00			0 0.000E+00 0 0.000E+00
331 332	3.474E-0 2.745E-0		8 7.716E-07		3.192E-0	7 0.000E+00	0.000E+00	1.382E-06	0 0.000E+00
333	4.344E-0	8 2.591E-09	9 1.210E-07	0.000E+00	4.993E-0	8 0.000E+00			0 0.000E+00 0 0.000E+00
334	5.028E-0			0.000E+00 0.000E+00	) 5.790E-0: ) 6.891E-0:				0 0.000E+00
335 336	5.987E-0 7.391E-0	8 4.414E-0	9 2.062E-07		8.504E-0	8 0.000E+00	0.000E+00	3.696E-07	0 0.000E+00
337	9.504E-0	8 5.667E-0	9 2.647E-07	0.000E+00	1.092E-0	7 0.000E+00	0.000E+00		0 0.000E+00 0 0.000E+00
338	1.270E-0	7.592E÷0							0 0.000E+00
339 340	1.956E-0 3.499E-0					7 0.000E+0	0 0.000E+00	1.756E-06	0 0.000E+00
341	1.298E-0	6 7.609E-0	8 3.552E-06	0.000E+0	1.472E-0	6 0.000E+0	0 0.000E+00		0 0.000E+00
342	6.291E-0	7 3.759E-0	8 1.755E-06			7 0.000E+0			0 0.000E+00 0 0.000E+00
343 344	4.243E-0 3.167E-0							1.594E-06	0 0.000E+00
345	2.466E-0	7 1.486E-0	8 6.939E-07	7 0.000E+0	0 2.870E-0	7 0.000E+0	0 0.000E+00	1.242E-06	0 0.000E+00
346	4.026E-0	08 2.375 <b>E</b> −0				0.000E+0 0.000E+0			0 0.000E+00 0 0.000E+00
347 348	4.468E-0 5.198E-0								0 0.000E+00
740	3.2704	v							

349	6.242E-08	3.730E-09	1.742E-07	0.000E+00	7 1005-00	0.0005100	0 0005+00	2 1005 47	0 0 0007100
350	7.848E-08	4.688E-09	2.190E-07	0.000E+00	7.190E-08	0.000E+00	0.000E+00	3.122E-07	0 0.000E+00
351	1.047E-07	6.263E-09			9.042E-08	0.000E+00	0.000E+00	3.926E-07	0 0.000E+00
352	1.560E-07		2.925E-07	0.000E+00	1.208E-07	0.000E+00	0.000E+00	5.243E-07	0 0.000E+00
353		9.355E-09	4.369E-07	0.000E+00	1.804E-07	0.000E+00	0.000E+00	7.828E-07	0 0.000E+00
	2.623E-07	1.576E-08	7.359E-07	0.000E+00	3.037E-07	0.000E+00	0.000E+00	1.318E-06	0 0.000E+00
354	9.007E-07	5.320E-08	2.483E-06	0.000E+00	1.029E-06	0.000E+00	0.000E+00	4.466E-06	0 0.000E+00
355	5.021E-07	3.000E-08	1.401E-06	0.000E+00	5.799E-07	0.000E+00	0.000E+00	2.513E-06	0 0.000E+00
356	3.446E-07	2.070E-08	9.667E-07	0.000E+00	4.000E-07	0.000E+00	0.000E+00	1.732E-06	0 0.000E+00
357	2.613E-07	1.574E-08	7.349E-07	0.000E+00	3.040E-07	0.000E+00	0.000E+00	1.316E-06	0 0.000E+00
358	2.115E-07	1.274E-08	5.951E-07	0.000E+00	2.462E-07	0.000E+00	0.000E+00	1.065E-06	0 0.000E+00
359	3.569E-08	2.089E-09	9.762E-08	0.000E+00	4.021E-08	0.000E+00	0.000E+00	1.756E-07	0 0.000E+00
360	4.145E-08	2.421E-09	1.131E-07	0.000E+00	4.660E-08	0.000E+00	0.000E+00	2.036E-07	0 0.000E+00
361	4.648E-08	2.748E-09	1.284E-07	0.000E+00	5.297E-08	0.000E+00	0.000E+00	2.306E-07	0 0.000E+00
362	5.585E-08	3.319E-09	1.550E-07	0.000E+00	6.400E-08	0.000E+00	0.000E+00	2.782E-07	0 0.000E+00
363	6.939E-08	4.142E-09	1.934E-07	0.000E+00	7.990E-08	0.000E+00	0.000E+00	3.468E-07	0 0.000E+00
364	8.986E-08	5.388E-09	2.516E-07	0.000E+00	1.040E-07	0.000E+00	0.000E+00	4.508E-07	0 0.000E+00
365	1.213E-07	7.310E-09	3.414E-07	0.000E+00	1.411E-07	0.000E+00	0.000E+00	6.110E-07	0 0.000E+00
366	1.909E-07	1.151E-08	5.375E-07	0.000E+00	2.221E-07	0.000E+00	0.000E+00	9.620E-07	0 0.000E+00
367	4.281E-07	2.577E-08	1.203E-06	0.000E+00	4.974E-07	0.000E+00	0.000E+00	2.155E-06	0 0.000E+00
368	1.453E-06	8.892E-08	4.153E-06	0.000E+00	1.716E-06	0.000E+00	0.000E+00	7.411E-06	0 0.000E+00
369	1.129E-06	6.714E-08	3.134E-06	0.000E+00	1.298E-06	0.000E+00	0.000E+00	5.628E-06	0 0.000E+00
370	6.623E-07	3.942E-08	1.840E-06	0.000E+00	7.622E-07	0.000E+00	0.000E+00	3.304E-06	0 0.000E+00
371	4.197E-07	2.508E-08	1.171E-06	0.000E+00	4.847E-07	0.000E+00	0.000E+00	2.100E-06	0 0.000E+00
372	2.941E-07	1.763E-08	8.234E-07	0.000E+00	3.408E-07	0.000E+00	0.000E+00	1.476E-06	0 0.000E+00
373	2.221E-07	1.334E-08	6.231E-07	0.000E+00	2.578E-07	0.000E+00			
374	1.794E-07	1.080E-08	5.044E-07	0.000E+00	2.087E-07	0.000E+00	0.000E+00 0.000E+00	1.116E-06 9.032E-07	
375	3.422E-08	2.004E-09	9.363E-08	0.000E+00	3.859E-08	0.000E+00		1.684E-07	
376	3.979E-08	2.332E-09	1.090E-07	0.000E+00	4.491E-08	0.000E+00	0.000E+00	1.960E-07	
377	4.687E-08	2.749E-09	1.284E-07	0.000E+00	5.295E-08	0.000E+00	0.000E+00 0.000E+00		
378	5.336E-08	3.180E-09	1.485E-07	0.000E+00	6.135E-08	0.000E+00		2.310E-07	
379	6.677E-08	4.010E-09	1.873E-07	0.000E+00	7.737E-08		0.000E+00	2.664E-07	
380	8.509E-08	5.138E-09	2.399E-07	0.000E+00	9.911E-08	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.354E-07 4.293E-07	0 0.000E+00 0 0.000E+00
381	1.143E-07	6.904E-09	3.224E-07	0.000E+00	1.332E-07	0.000E+00	0.000E+00		
382	1.656E-07	9.933E-09	4.639E-07	0.000E+00	1.917E-07			5.769E-07	
383	3.218E-07	1.937E-08	9.044E-07	0.000E+00	3.739E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	8.311E-07 1.619E-06	
384	6.466E-07	3.947E-08	1.844E-06	0.000E+00	7.614E-07				
385	8.170E-07	5.013E-08	2.342E-06	0.000E+00		0.000E+00	0.000E+00	3.291E-06	
386	8.980E-07	5.533E-08	2.584E-06	0.000E+00	9.667E-07	0.000E+00	0.000E+00	4.175E-06	0 0.000E+00
387	8.513E-07	5.200E-08	2.429E-06	0.000E+00	1.067E-06	0.000E+00	0.000E+00	4.605E-06	0 0.000E+00
388	7.070E-07	4.261E-08	1.990E-06		1.004E-06	0.000E+00	0.000E+00	4.335E-06	0 0.000E+00
389	5.230E-07	3.139E-08		0.000E+00	8.231E-07	0.000E+00	0.000E+00	3.562E-06	0 0.000E+00
390	3.703E-07	2.222E-08	1.465E-06 1.037E-06	0.000E+00	6.065E-07	0.000E+00	0.000E+00	2.626E-06	0 0.000E+00
391	2.746E-07	1.646E-08		0.000E+00	4.293E-07	0.000E+00	0.000E+00	1.859E-06	0 0.000E+00
392	2.098E-07	1.259E-08	7.686E-07	0.000E+00	3.181E-07	0.000E+00	0.000E+00	1.378E-06	0 0.000E+00
393	1.690E-07		5.878E-07	0.000E+00	2.433E-07	0.000E+00	0.000E+00	1.053E-06	0 0.000E+00
394	3.413E-08	1.016E-08 2.007E-09	4.744E-07	0.000E+00	1.963E-07	0.000E+00	0.000E+00	8.499E-07	0 0.000E+00
395			9.376E-08	0.000E+00	3.866E-08	0.000E+00	0.000E+00	1.686E-07	0 0.000E+00
396	4.101E-08 4.993E-08	2.424E-09	1.132E-07	0.000E+00	4.669E-08	0.000E+00	0.000E+00	2.033E-07	0 0.000E+00
397		2.954E-09	1.380E-07	0.000E+00	5.688E-08	0.000E+00	0.000E+00	2.478E-07	0 0.000E+00
398	5.716E-08 6.503E-08	3.408E-09	1.592E-07	0.000E+00	6.568E-08	0.000E+00	0.000E+00	2.855E-07	0 0.000E+00
399	7.645E-08	3.899E-09	1.821E-07	0.000E+00	7.517E-08	0.000E+00	0.000E+00	3.262E-07	0 0.000E+00
400	9.771E-08	4.602E-09	2.149E-07	0.000E+00	8.875E-08	0.000E+00	0.000E+00	3.847E-07	0 0.000E+00
401	1.449E-07	5.853E-09	2.733E-07	0.000E+00	1.130E-07	0.000E+00	0.000E+00	4.899E-07	0 0.000E+00
402	2.580E-07	8.672E-09 1.552E-08	4.050E-07 7.247E-07	0.000E+00	1.675E-07	0.000E+00	0.000E+00	7.260E-07	0 0.000E+00
403	4.196E-07	2.551E-08		0.000E+00	2.996E-07	0.000E+00	0.000E+00	1.298E-06	0 0.000E+00
404	5.461E-07	3.342E-08	1.191E-06 1.561E-06	0.000E+00	4.921E-07	0.000E+00	0.000E+00	2.129E-06	0 0.000E+00
405	6.071E-07	3.715E-08	1.735E-06	0.000E+00	6.446E-07	0.000E+00	0.000E+00	2.785E-06	0 0.000E+00
406	5.898E-07	3.593E-08	1.678E-06	0.000E+00 0.000E+00	7.164E-07 6.933E-07	0.000E+00	0.000E+00	3.096E-06	0 0.000E+00
407	5.134E-07	3.109E-08	1.452E-06	0.000E+00	6.002E-07	0.000E+00 0.000E+00	0.000E+00	2.997E-06	0 0.000E+00 0 0.000E+00
408	4.119E-07	2.479E-08	1.157E-06	0.000E+00			0.000E+00	2.596E~06	
409	3.224E-07	1.942E-08	9.067E-07	0.000E+00	4.789E-07	0.000E+00 0.000E+00	0.000E+00	2.073E-06	0 0.000E+00
410	2.561E-07	1.540E-08	7.192E-07	0.000E+00	3.751E-07		0.000E+00	1.624E-06	0 0.000E+00
411	2.050E-07	1.231E-08	5.750E-07	0.000E+00	2.976E~07	0.000E+00	0.000E+00	1.288E-06	0 0.000E+00 0 0.000E+00
412	1.633E-07	9.819E-09	4.585E-07	0.000E+00	2.379E-07 1.897E-07	0.000E+00 0.000E+00	0.000E+00 0.000E+00	1.030E-06	
413	5.693E-08	3.401E-09	1.588E-07	0.000E+00	6.553E-08	0.000E+00		8.213E-07	
414	4.944E-08	2.950E-09	1.378E-07	0.000E+00	5.688E-08	0.000E+00	0.000E+00 0.000E+00	2.847E-07	0 0.000E+00
415	4.628E-08	2.726E-09	1.273E-07	0.000E+00	5.259E-08			2.471E-07	0 0.000E+00 0 0.000E+00
416	6.684E-08	3.998E-09	1.867E-07	0.000E+00		0.000E+00	0.000E+00	2.289E-07	
417	6.139E-08	3.629E-09	1.694E-07	0.000E+00	7.714E-08 7.005E-08	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.347E-07 3.045E-07	0 0.000E+00 0 0.000E+00
418	6.354E-08	3.776E-09	1.763E-07	0.000E+00	7.287E-08				
419		5.166E-09	2.412E-07	0.000E+00	9.976E-08	0.000E+00 0.000E+00	0.000E+00 0.000E+00	3.165E-07 4.330E-07	0 0.000E+00 0 0.000E+00
420	8.914E-08	5.344E-09	2.495E-07	0.000E+00	1.031E-07	0.000E+00	0.000E+00	4.472E-07	0 0.000E+00
421	8.430E-08	5.051E-09	2.359E-07	0.000E+00	9.742E-08	0.000E+00	0.000E+00	4.227E-07	
422	1.339E-07	8.049E-09	3.759E-07	0.000E+00	1.554E-07	0.000E+00	0.000E+00	6.732E-07	0 0.000E+00 0 0.000E+00
423	1.231E-07	7.387E-09	3.450E-07	0.000E+00	1.426E-07	0.000E+00	0.000E+00	6.180E-07	0 0.000E+00
424	1.156E-07	6.947E-09	3.244E-07	0.000E+00	1.340E-07	0.000E+00	0.000E+00	5.810E-07	0 0.000E+00
425	2.161E-07	1.302E-08	6.080E-07	0.000E+00	2.513E-07	0.000E+00	0.000E+00	1.088E-06	0 0.000E+00
426	1.885E-07	1.138E-08	5.313E-07	0.000E+00	2.196E-07	0.000E+00	0.000E+00	9.508E-07	0 0.000E+00
427	1.694E-07	1.020E-08	4.764E-07	0.000E+00	1.968E-07	0.000E+00	0.000E+00	8.528E-07	0 0.000E+00
428	3.209E-07	1.949E-08	9.103E-07	0.000E+00	3.760E-07	0.000E+00	0.000E+00	1.627E-06	0 0.000E+00
429	2.630E-07	1.593E-08	7.440E-07	0.000E+00	3.074E-07	0.000E+00	0.000E+00	1.330E-06	0 0.000£+00
430	2.217E-07	1.342E-08	6.267E-07	0.000E+00	2.589E-07	0.000E+00	0.000E+00	1.121E-06	0 0.000E+00
431	4.010E-07	2.449E-08	1.144E-06	0.000E+00	4.724E-07	0.000E+00	0.000E+00	2.042E-06	0 0.0002+00
432	3.096E-07	1.888E-08	8.820E-07	0.000E+00	3.643E-07	0.000E+00	0.000E+00	1.575E-06	0 0.000E+00
433	2.507E-07	1.528E-08	7.137E-07	0.000E+00	2.948E-07	0.000E+00	0.000E+00	1.274E-06	0 0.000E+00
434	4.401E-07	2.682E-08	1.253E-06	0.000E+00	5.174E-07	0.000E+00	0.000E+00	2.237E-06	0 0.000E+00
435	3.386E-07	2.060E-08	1.253E-06 9.619E-07	0.000E+00	3.974E-07	0.000E+00	0.000E+00	1.719E-06	0 0.000E+00
436	2.703E-07	1.642E-08	7.668E-07	0.000E+00	3.169E-07	0.000E+00	0.000E+00	1.370E-06	0 0.000E+00
437	4.426E-07	2.683E-08	1.253E-06	0.000E+00	5.178E-07	0.000E+00	0.000E+00	2.240E-06	0 0.000E+00
438	3.434E-07	2.076E-08	9.694E-07	0.000E+00	4.006E-07	0.000E+00	0.000E+00	1.734E-06	0 0.000E+00
439	2.748E-07	1.659E-08	7.749E-07	0.000E+00	3.203E-07	0.000E+00	0.000E+00	1.387E-06	0 0.000E+00
440	3.975E-07	2.409E-08	1.125E-06	0.000E+00	4.650E-07	0.000E+00	0.000E+00	2.012E-06	0 0.000E+00
441	3.227E-07	1.953E-08	9.118E-07	0.000E+00	3.768E-07	0.000E+00	0.000E+00	1.631E-06	0 0.000E+00
442	2.668E-07	1.613E-08	7.533E-07	0.000E+00	3.113E-07	0.000E+00	0.000E+00	1.348E-06	0 0.000E+00
443	3.372E-07	2.026E-08	9.460E-07	0.000E+00	3.911E-07	0.000E+00	0.000E+00	1.695E-06	0 0.000E+00
444	2.850E-07	1.713E-08	8.000E-07	0,000E+00	3.305E-07	0.000E+00	0.000E+00	1.433E-06	0 0.000E+00
445	2.391E-07	1.446E-08	6.753E-07	0.000E+00	2.791E-07	0.000E+00	0.000E+00	1.208E-06	0 0.000E+00
					· _ <b></b>				

```
446 2.777E-07 1.671E-08 7.804E-07 0.000E+00 3.228E-07 0.000E+00 0.000E+00 1.398E-06 0 0.000E+00 447 2.368E-07 1.426E-08 6.657E-07 0.000E+00 2.754E-07 0.000E+00 0.000E+00 1.192E-06 0 0.000E+00 448 2.061E-07 1.241E-08 5.795E-07 0.000E+00 2.396E-07 0.000E+00 0.000E+00 1.038E-06 0 0.000E+00 449 2.286E-07 1.380E-08 6.443E-07 0.000E+00 2.665E-07 0.000E+00 0.000E+00 1.153E-06 0 0.000E+00 450 2.004E-07 1.210E-08 5.649E-07 0.000E+00 2.336E-07 0.000E+00 0.000E+00 1.031E-06 0 0.000E+00 451 1.779E-07 1.071E-08 5.003E-07 0.000E+00 2.336E-07 0.000E+00 0.000E+00 1.011E-06 0 0.000E+00 451 1.779E-07 1.071E-08 5.003E-07 0.000E+00 2.069E-07 0.000E+00 0.000E+00 8.958E-07 0 0.000E+00
```

RECZPTOR # 68 BAS MAXIMUM FEAK RISK OF 2.621E-05 FEAK RECEPTOR LOCATED AT (X, Y) = 391445.000 3870519.000 RECEPTOR POPULATION = 0 RECEPTOR BURDEN = 0.000E+00

TOTAL CANCER EXCESS BURDEN FROM ALL RECEPTORS = 0.000E+00 BURDEN COMPUTED WITH ZONE OF IMPACT RISK LEVEL = 1.000E-07

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, TSP \* OUTFUT OF AMI/SECAPCD ACE2388 MODEL VERS, 93288 \* Input File: 5:\beat\GQ\gqtspace.dat Output File: 5:\beat\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 119

#### 70-YEAR LIFETING CANCER RISK BY SOURCE FOR PEAK RECEPTOR # 68 \*\*\*

SOURCE	INHALE	DERMAL	SOIL	WATER	PLANTS	ANTMAL	MOTHER MILK	SUM
1	2.125E-09	1.438E-10	6.721E-09	0.000E+00	2.756E-09	0.000E+00	0.000E+00	1.175E-08
ž	2.590E-09	1.752E-10	8.189E-09	0.000E+00	3.358E-09	0.000E+00	0.000E+00	1.431E-08
3	1.499E-08	1.014E-09	4.741E-08	0.000E+00	1.944E-08	0.000E+00	0.000E+00	8.286E-08
4	2.686E-08	1.817E-09	8.493E-08	0.000E+00	3.483E-08	0.000E+00	0.000E+00	1.484E-07
5	2.047E-08	1.385E-09	6.473E-08	0.000E+00	2.655E-08	0.0002+00	0.000E+00	1.131E-07
6	1.598E-08	1.081E-09	5.052E-08	0.00GE+00	2.072E-08	0.000E+00	0.000E+00	8.829E-08
. 7	1.150E-09	7.789E-11	3.642E-09	0.000E+00	1.493E-09	0.000E+00	0.000E+00	6.363E-09
8	7.426E-10	5.030E-11	2.351E-09	0.000E+00	9.641E-10	0.000E+00	0.000E+00	4.108E-09
9	1.023E-09	6.931E-11	3.240E-09	0.000E+00	1.329E-09	0.000E+00	0.000E+00	5.662E-09
10	5.3862~10	3.648E-11	1.705E-09	0.000E+00	6.993E-10	0.000E+00	0.000E+00	2.980E-09
11	5.310E-10	3.596E-11	1.681E-09	0.000E+00	6.894E-10	0.000E+00	0.000E+00	2.938E-09
12 13	4.079E-10	2.763E-11	1.292E-09	0.000E+00	5.296E-10	0.000E+00	0.000E+00	2.257E-09
13	3.070E-08	2.077E-09	9.708E-08	0.000E+00	3.981E-08	0.000E+00	0.000E+00	1.697E-07
14	3.706E-08	2.507E-09	1.172E-07	0.000E+00	4.805E-08	0.000E+00	0.000E+00	2.048E-07
15	2.126E-07	1.438E-08	6.722E-07	0.000E+00	2.756E-07	0.000E+00	0.000E+00	1.175E-06
16	3.747E-07	2.534E-08	1.185E-06	0.000E+00	4.858E-07	0.000E+00		2.071E-06
17	2.679E-07	1.812E-08	8.470E-07	0.000E+00	3.473E-07	0.000E+00		1.480E-06
18	2.183E-07	1.476E-08	6.902E-07	0.000E+00	2.830E-07	0.000E+00		1.206E-06
19	1.7562-08	9.783E-10	4.564E-08	0.000E+00	1.901E-08	0.000E+00		8.318E-08
20	2.137E-08	1.191E-09	5.554E-08	0.000E+00	2.313E-08	0.0002+00		1.012E-07
21	1.014E-07	5.647E-09	2.634E-07	0.000E+00	1.097E-07	0.000E+00		4.802E-07
22	1.777E-07	9.902E-09	4.619E-07	0.000E+00	1.924E-07	0.000E+00		8.419E-07
23	1.256E-07	6.999E-09	3.265E-07	0.000E+00	1.360E-07	0.000E+00		5.951E-07 4.597E-07
24	9.703E-08	5.407E-09	2.522E-07	0.000E+00	1.050E-07	0.000E+00		3.093E-07
25	7.461E-08	3.523E-09	1.654E-07	0.000E+00	6.573E-08	0.000E+00		5.243E-07
26	1.107E-07	6.167E-09	2.877E-07	0.000E+00	1.198E-07 2.910E-07	0.000E+00		1.273E-06
27	2.688E-07	1.498E-08	6.986E-07	0.000E+00	3.754E-07	0.000E+00		1.643E-06
28	3.467E-07	1.932E-08	9.013E-07	0.000E+00	1.890E-06	0.000E+00		8.273E-06
29	1.7462-06	9.730E-08	4.539E-06 2.781E-07	0.000E+00 0.000E+00	1.158E-07	3.000E+00		5.069E-07
30	1.070E-07	5.962E-09	5.342E-08	0.000E+00	2.225E-08	0.000E+00		9.737E-08
31	2.055E-08 4.929E-08	1.145E-09 2.746E-09	1.281E-07	0.000E+00	5.336Z-08	0.000E+00		2.335E-07
32			1.587E-07	0.000E+00	6.609E-08	0.000E+00		2.892E-07
33 34	6.105E-08 2.386E-07	3.401E-09 1.329E-08	6.201E-07	0.000E+00	2.583E-07	0.000E+00		1.130E-06
35	1.982E-08	1.105E-09	5.152E-08	0.000E+00	2.146E-08	0.000E+0		9.391E-08
36	3.081E-08	1.717E-09	8.008E-08	0.000E+00	3.335E-08	0.000E+0		1.459E-07
37	7.320E-08	4-078E-09	1.903E-07	0.000E+00	7.924E-08	0.000E+0		3.468E-07
38	8.304E-08	4.906E-09	2.288E-07	0.000E+00	9.531E-08	0.000E+0		4.171E-07
39	3.021E-07	1_683E-08	7.851E-07	0.000E+00	3.270E-07	0.000E+0		1.431E-06
40	2.966E-08	1.652E-09	7.709E-08	0.000E+00	3.211E-08	0.000E+0		1.405E-07
41	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0		0.000E+00
42	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0		0.000E+00
43	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0		0.000E+00
44	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0		0.000E+00
45	4.605E-09	1.825E-12	8.625E-12	0.000E+00	3.471E-12	0.000E+0		4.619E-09
46	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+0		0.000E+00
	J. 3000.70							
SUM	5.341E-06	3.113E-07	1.453E-05	0.000E+00	6.025E-06	0.000E+0	0.000E+00	2.621E-05

RECEPTOR RISK OF 2.621E-05 EXCEEDS SIGNIFICANT RISK LEVEL OF 1.000E-06

RECEPTOR RISK OF 2.621E-05 EXCEEDS IMPACT ZONE RISK LEVEL OF 1.000E-07 RECEPTOR BURDEN = 0.000E+00

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, TSP \* OUTFUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Fage - 121

\*\*\* 70-YEAR LIFETIME CANCER RISK BY POLLUTANT FOR PEAK RECEPTOR # 68 \*\*\*

POLLUTANT INHALE DERMAL SOIL WATER FLANTS ANIMAL MOTHER MILK SUM

ACETA AS BENZE BO Cd HCHO Ph N1 PAH SO	0.000E+00 3.986E-06 0.000E+00 1.204E-07 1.863E-07 1.023E-06 0.000E+00 1.641E-08 8.714E-09 0.000E+00 0.000E+00	0.002+00 2.8142-07 0.0002+00 2.5782-08 0.0002+00 4.1872-09 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00	0.000E+00 1.330E-05 0.000E+00 1.218E-06 0.000E+00 1.978E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00	0.000E+00 5.541E-06 0.000E+00 4.761E-07 0.000E+00 7.963E-09 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00	0.000E+00 2.310E-05 0.000E+00 1.840E-06 1.863E-07 1.055E-06 0.000E+00 1.641E-08 8.714E-09 0.000E+00 0.000E+00	
SUM	5.341E-06	3.113E-07	1.453E-05	0.000E+00	6.025E-06	0.000E+00	0.000E+00	2.621E-05	

RECEPTOR RISK OF 2.621E-05 EXCEEDS SIGNIFICANT RISK LEVEL OF 1.000E-06

RECEPTOR RISK OF 2.621E-05 EXCEEDS IMPACT ZONE RISK LEVEL OF 1.000E-07 RECEPTOR BURDEN = 0.000E+00

DEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, TSP \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS, 93288 \* Ut File: g:\beest\GQ\gqtspace.dat Output File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Fage - 122

# 70-YEAR LIFETIME DOSE (mg/kg/d) BY POLLUTANT FOR FEAK RECEPTOR # 68 \*\*\*

LLUTANT	INHALE	DERMAL	SOIL	WATER	PLANTS	ANIMAL	MOTHER MILK	SUM
ACETA AS BENZE Be Cd Cr HCHO Fb N1 PAH Se	0.000E+00 3.451E-07 0.000E+00 1.454E-08 1.267E-08 2.089E-09 0.000E+00 5.861E-08 9.575E-09 0.000E+00 0.000E+00	0.000E+00 1.655E-07 0.000E+00 5.995E-09 0.000E+00 9.969E-09 0.000E+00 0.000E+00 0.000E+00	0.000E+00 7.821E-06 0.000E+00 2.833E-07 0.000E+00 4.711E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 3.259E-06 0.000E+00 1.107E-07 0.000E+00 1.896E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 1.159E-05 0.000E+00 4.143E-07 1.267E-08 7.812E-08 0.000E+00 5.861E-08 9.575E-09 0.000E+00

# 44-YEAR LIFETIME CANCER RISK BY SOURCE FOR PEAK RECEPTOR # 68

SOURCE	INHALE	DERMAL	SOIL	WATER	Plants	ANIMAL	MOTHER MILK	SUM
1	1.336E-09	1.239E-10	5.793E-09	0.000E+00	1.774E-09	0.000E+00	0.000E+00	9.027E-09
2	1.628E-09	1.510E-10	7.060E-09	0.000E+00	2.162E-09	0.000E+00	0.000E+00	1.100E-08
3	9.425E-09	8.743E-10	4.087E-08	0.000E+00	1.251E-08	0.000E+00	0.000E+00	6.368E-08
4	1.588E-08	1.566E-09	7.321E-08	0.000E+00	2.24ZE-08	0.000E+00	0.000E+00	1.141E-07
5	1.287E-08	1.194E-09	5.580E-08	0.000E+00	1.709E-08	0.000E+00	0.000E+00	8.695E-08
6	1.004E-08	9.315E-10	4.355E-08	0.000E+00	1.333E-08	0.000E+00	0.000E+00	6.785E-08
7	7.229E-10	6.715E-11	3.139E-09	0.000E+00	9.611E-10	0.000E+00	0.000E+00	4.890E-09
8	4.667E-10	4.336E-11	2.027E-09	0.000E+00	6.206E-10	0.000E+00	0.000E+00	3.158E-09
9	6.432E-10	5.975E-11	2.793E-09	0.000E+00	8.552E-10	0.000E+00	0.000E+00	4.352E-09
10	3.385E-10	3.145E-11	1.470E-09	0.000E+00	4.501E-10	0.000E+00	0.000E+00	2.290E-09
11	3.337E-10	3.100E-11	1.449E-09	0.000E+00	4.437E-10	0.000E+00	0.000E+00	2.258E-09
12	2.564E-10	2.382E-11	1.113E-09	0.000E+00	3.409E-10	0.000E+00	0.000E+00	1.735E-09
13	1.930E-08	1.790E-09	8.369E-08	0.000E+00	2.562E-08	0.000E+00	0.000E+00	1.304E-07
14	2.329E-08	2.161E-09	1.010E-07	0.000E+00	3.093E-08	0.000E+00	0.000E+00	1.574E-07
15	1.336E-07	1.239E-08	5.794E-07	0.000E+00	1.774E-07	0.000E+00	0.000E+00	9.029E-07
16	2.355E-07	2.185E-08	1.021E-06	0.000E+00	3.127E-07	0.000E+00	0.000E+00	1.591E-06
17	1.684E-07	1.562E-08	7.301E-07	0.000E+00	2.236E-07	0.000E+00		1.138E-06
18	1.372E-07	1.273E-08	5.949E-07	0.000E+00	1.822E-07	0.000E+00		9.270E-07
19	1.104E-08	8.433E-10	3.934E-08	0.000E+00	1.230E-08	0.000E+00		6.352E-08
20	1.343E-08	1.026E-09	4.788E-08	0.000E+00	1.497E-08	0.000E+00		7.730E-08
21	6.371E-08	4.868E-09	2.271E-07	0.000E+00	7.099E-08	0.000E+00		3.667E-07
22	1.117E-07	8.536E-09	3.982E-07	0.00CE+00	1.245E-07	0.000E+00		6.429E-07
23	7.895E-08	6.033E-09	2.814E-07	0.000E+00	8.798E-08	0.000E+00		4.544E-07
24	6.099E-08	4.661E-09	2.174E-07	0.000E+00	6.797E-08	0.000E+00		3.510E-07
25	4.690E-08	3.037E-09	1.426E-07	0.000E+00	4.185E-08	0.000E+00		2.344E-07
26	6.957E-08	5.316E-09	2.480E-07	0.000E+00	7.753E-08	0.000E+00		4.004E-07
27	1.689E-07	1.291E-08	6.022E-07	0.000E+00	1.883E-07	0.000E+00		9.723E-07
28	2.180E-07	1.665E-08	7.769E-07	0.000E+00	2.429E-07	0.000E+00		1.254E-06
29	1.098E-06	8.388E-08	3.913E-06	0.000E+00	1.223E-06	0.000E+00		6.318E-06
30	6.726E-08	5.139E-09	2.397E-07	0.000E+00	7.495E-08	0.000E+00		3.871E-07
31	1.292E-08	9.872E-10	4.605E-08	0.000E+00	1.440E-08	0.000E+00		7.436E-08
32	3.098E-08	2.368E-09	1.104E-07	0.000E+00	3.453E-08	0.000E+00		1.783E-07
33	3.837E-08	2.932E-09	1.368E-07	0.000E+00	4.276E-08	0.000E+00		2.208E-07
34	1.500E-07	1.146E-08	5.346E-07	0.000E+00	1.671E-07	0.000E+00		8.631E-07
35	1.246E-08	9.521E-10	4.442E-08	0.000E+00	1.388E-08	0.000E+00		7.171E-08
36	1.9362-08	1.480E-09	6.903E-08	0.000E+00	2.158E-08	0.000E+00		1.114E-07
37	4.601E-08	3.516E-09	1.640E-07	0.000E+00	5.127E-08	0.000E+00		2.648E-07
38	5.534E-08	4.229E-09	1.973E-07	0.000E+00	6.167E-08	0.000E+00		3.185E-07
39	1.899E-07	1.451E-08	6.768E-07	0.000E+00	2.116E-07	0.000E+00		1.093E-06
							7.1302.00	2.4/05 00

40 41 42 43 44 45 46	1.864E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.894E-09 0.000E+00	1.425E-09 0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.573E-12 0.000E+00	6.645E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 7.435E-12 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	2.077E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.220E-12 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	1.073E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 2.906E-09 0.000E+00
SIM	3 3579-04	2 68AF-07	1 253F-05	0 000F+00	3 8927-06	0.002+00	0 000F+00	2.005E-05

RECEPTOR RISK OF 2.005E-05 EXCEEDS SIGNIFICANT RISK LEVEL OF 1.000E-06

RECEPTOR RISK OF 2.005E-05 EXCEEDS IMPACT ZONE RISK LEVEL OF 1.000E-07

44-YEAR LIFETIME RISK OF 2.005E-05 IS LOWER THAN 70-YEAR LIFETIME RISK OF 2.621E-05

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET. TSP \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Output File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 125

#### \*\*\* 44-YEAR LIFETIME CANCER RISK BY POLLUTANT FOR PEAK RECEPTOR # 68 \*\*\*

POLLUIANT	INHALE	DERMAL.	SOIL	WATER	PLANTS	ANIMAL	MOTHER MILK	SUM
ACETA AS BENZE Be Cd Cr BCBO Pb N1 PAH Se	0.000E+00 2.505E-06 0.000E+00 7.570E-08 1.171E-07 6.433E-07 0.000E+00 1.032E-08 5.477E-09 0.000E+00 0.000E+00	0.000E+00 2.426E-07 0.000E+00 2.222E-08 0.000E+00 3.609E-09 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 1.146E-05 0.000E+00 1.050E-06 0.000E+00 1.706E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 3.586Z-06 0.000E+00 3.013E-07 0.000E+00 5.093E-09 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.000E+00	0.000E+00 1.779E-05 0.000E+00 1.449E-06 1.171E-07 6.691E-07 0.000E+00 1.032E-08 5.477E-09 0.000E+00 0.000E+00
STIM	3 357P-06	2 68AF-07	1 2538-05	n none+no	3 8927-06	0 0002+00	0 0005+00	2.005E-05

RECEPTOR RISK OF 2.005E-05 EXCEEDS SIGNIFICANT RISK LEVEL OF 1.000E-06

RECEPTOR RISK OF 2.005E-05 EXCEEDS IMPACT ZONE RISK LEVEL OF 1.000E-07

44-YEAR LIFETIME RISK OF 2.005E-05 IS LOWER THAN 70-YEAR LIFETIME RISK OF 2.621E-05

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET, TSP \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 126

# \*\*\* 44-YEAR LIFETIME DOSE (mg/kg/d) BY POLLUTANT FOR FEAK RECEPTOR # 68 \*\*\*

POLLUTANT	INHALE	DERMAL	SOIL	WATER	PLANTS	ANIMAL	MOTHER MILK	SUM
ACETA AS BENZE Be Cd Cc BCHO Fb Ni PAH	0.000E+00 3.451E-07 0.000E+00 1.434Z-08 1.267E-08 2.089E-09 0.000E+00 5.861E-08 9.575E-09 0.000E+00	0.000E+00 2.270E-07 0.000E+00 8.222E-09 0.000E+00 1.367E-08 0.000E+00 0.000E+00	0.000E+00 1.073E-05 0.000E+00 3.885E-07 0.000E+00 6.460E-08 0.000E+00 0.000E+00	0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00	0.000E+00 3.356E-06 0.000E+00 1.115E-07 0.000E+00 1.929E-08 0.000E+00 0.000E+00	0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00	0.000E+00 1.465E-05 0.000E+00 5.225E-07 1.267E-08 9.965E-08 0.000E+00 5.861E-08 9.575E-09 0.000E+00
Se	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00		0.000E+00

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, TSP \* OUTFUT OF AMI/SBCAPCD ACE2588 MODEL VERS, 93288 \* Input File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 127

# \*\*\* MAXIMUM ACUTE BAZARD INDEX BY POLLUTANT \*\*\*

POLLUTANT	FEAK CONC (ug/m3)	BACKGR (ug/m3)	TCTAL (ug/m3)	AEL (ug/m3)	HAZARD INDEX	RECEPTOR
ACROL	0.000E+00	0.000E+00	0.000E+00	2.500E+00	0.000E+00	9
Cu	6 181E-03	0.000E+00	6.181E-03	1.000E+01	6.181E-04	30
ECEO	0.000E+00	G. 000E+00	0.000E+00	3.700E+02	0.000E+00	a
BCN	4.528E+01	0.000E+00	4.528E+01	3.300E+03	1.372E-02	34

```
Eg 0.000E+00 0.000E+00 0.000E+00 3.000E+01 0.000E+00 N1 4.160E-03 0.000E+00 4.160E-03 1.000E+00 4.160E-03 3.000E+00 0.000E+00 ```

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, TSP \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\GQtspace.dat Output File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 128

# \*\*\* RECEPTOR ACUTE HAZARD INDICES BY TOXICOLOGICAL ENDPOINTS \*\*\*

# FROM ALL SOURCES AND POLLUTANTS

| RECEPTOR       | C7                     | CNS                    | In <b>a</b> nun         | KIDN                   | LIVER                  | REPRO                  | RESP                   | EYE                    |
|----------------|------------------------|------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| 1              | 0.000E+00              | 2.180E-03              | 7.600E-04               | 0.000E+00              | 0.000E+00              | 0 0002400              |                        |                        |
| 2<br>3         | 0.000E+00              | 1.391E-03              | 5.664E-04               | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 1.130E-04<br>8.396E-05 | 0.000E+00<br>0.000E+00 |
| 3              | 0.000E+00<br>0.000E+00 | 1.3692-03              | 5.773E-04               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 8.552E-05              | 0.000E+00              |
| 3              | 0.000E+00              | 2.547E-03<br>2.450E-03 | 9.725E-04               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.437E-04              | 0.000E+00              |
| 6              | 0.000E+00              | 2.311E-03              | 9.408E-04<br>9.174E-04  | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 1.402E-04              | 0.000E+00              |
| 7              | 0.000E+00              | 1.281E-03              | 7.147E-04               | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 1.356E-04<br>1.053E-04 | 0.000E+00              |
| 8              | 0.000E+00<br>0.000E+00 | 1.315E-03              | 6.960E-04               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.032E-04              | 0.000E+00<br>0.000E+00 |
| 1ó             | 0.000E+00              | 1.347E-03<br>4.377E-03 | 7.266E-04               | 0.000E+00              | 0.000E+00              | 0.0002+00              | 1.074Z-04              | 0.0002+00              |
| 11<br>12       | 0.000E+00              | 2.354E-03              | 1.111E-03<br>6.318E-04  | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 1.657E-04              | 0.000E+00              |
| 12             | 0.000E+00              | 7.945E-03              | 1.463E-03               | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 9.354E-05<br>2.158E-04 | 0.000E+00              |
| 13             | 0.0002+00              | 4.443E-03              | 2.919E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.158E-04<br>4.305E-04 | 0.000E+00<br>0.000E+00 |
| 14<br>15       | 0.000E+00<br>0.000E+00 | 4.324E-03              | 3.007E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 4.431E-04              | 0.000E+00              |
| 16<br>17       | 0.000E+00              | 3.888E-03<br>4.880E-03 | 3.041E-03<br>3.085E-03  | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.0002+00              | 4.480E-04              | 0.000E+00              |
| 17             | 0.000E+00              | 4.449E-03              | 1.046E-03               | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 4.542E-04              | 0.000E+00              |
| 18             | 0.000E+00              | 4.634E-03              | 8.185E-04               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.551E-04<br>1.211E-04 | 0.000E+00<br>0.000E+00 |
| 19<br>20       | 0.000E+00<br>0.000E+00 | 4.486E-03              | 9.225E-04               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.366E-04              | 0.000E+00              |
| 21             | 0.000E+00              | 5.755E-03<br>1.023E-02 | 9.491E-04<br>2.371E-03  | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.405E-04              | 0.000E+00              |
| 22             | 0.000E+00              | 1.029E-02              | 2.206E-03               | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 3.625E-04              | 0.000E+00              |
| 22<br>23<br>24 | 0.000E+00              | 1.109E-02              | 2.558E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 3.364E-04<br>3.853E-04 | 0.000E+00              |
| 24<br>25       | 0.000E+00              | 1.138E-02              | 3.279E-03<br>3.437E-03  | 0.000E+00              | 0.000E+00              | 0.000E+00              | 4.892E-04              | 0.000E+00<br>0.000E+00 |
| 26             | 0.000E+00<br>0.000E+00 | 1.140E-02              | 3.437E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 5.124E-04              | 0.000E+00              |
| 27             | 0.000E+00              | 1.227E-02<br>7.433E-03 | 3.011E-03<br>2.254E-03  | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 4.443E-04              | 0.000E+00              |
| 28             | 0.000E+00              | 7.433E-03<br>7.778E-03 | 2.334E-03               | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 3.270E-04              | 0.000E+00              |
| 29<br>30       | 0.000E+00              | 8.772E-03              | 3.650E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 3.466E-04<br>5.450E-04 | 0.000E+00<br>0.000E+00 |
| 31             | 0.000E+00<br>0.000E+00 | 9.334E-03              | 4.160E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 6.181E-04              | 0.000E+00              |
| 32             | 0.000E+00              | 1.093E-02<br>1.330E-02 | 3.970E-03<br>3.279E-03  | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 5.882E-04              | 0.000E+00              |
| 33             | 0.000E+00              | 1.342E-02              | 3.082E-03               | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 4.852E-04              | 0.000E+00              |
| 34             | 0.000E+00              | 1.372E-02              | 3.115E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 4.535E-04<br>4.593E-04 | 0.000E+00<br>0.000E+00 |
| 35<br>36       | 0.000E+00<br>0.000E+00 | 1.322E-02              | 2.151E-03               | 0.000E+00              | 0.0002+00              | 0.000E+00              | 3.193E-04              | 0.000E+00              |
| 37             | 0.000E+00              | 1.268E-02<br>1.211E-02 | 1.768E-03<br>1.913E-03  | 0.000E+00              | 0.0002+00              | 0.000E+00              | 2.620E-04              | 0.000E+00              |
| 38             | 0.000E+00              | 1.208E-02              | 9.811E-04               | 0.000E+00<br>0.000E+00 | 0.060E+00<br>0.000E+00 | 0.000E+00              | 2.817E-04              | 0.000E+00              |
| 39<br>60       | 0.000E+00              | 1.356E-02              | 1.058E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 1.455E-04<br>1.569E-04 | 0.000E+00<br>0.000E+00 |
| 41             | 0.000E+00              | 1.353E-02              | 1.148E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.705E-04              | 0.000E+00              |
| 42             | 0.000E+00<br>0.000E+00 | 1.134E-02<br>6.072E-03 | 1.475E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.191E-04              | 0.000E+00              |
| 43             | 0.000E+00              | 6.346E-03              | 1.531E-03<br>8.181E-04  | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 2.291E-04              | 0.000E+00              |
| 44             | 0.000E+00              | 6.601E-03              | 5.759E-04               | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.334E-04<br>1.180E-04 | 0.000E+00              |
| 45<br>46       | 0.000E+00              | 6.261E-03              | 7.330E-04               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.428E-04              | 0.000E+00<br>0.000E+00 |
| 47             | 0.000E+00<br>0.000E+00 | 5.840E-03<br>4.905E-03 | 6.911E-04               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.413E-04              | 0.000E+00              |
| 48             | 0.000E+00              | 3.968E-03              | 8.481E-04<br>1.018E-03  | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 1.910E-04              | 0.000E+00              |
| 49             | 0.000E+00              | 3.266E-03              | 8.380E-04               | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.756E-04<br>1.769E-04 | 0.0002+00              |
| 50<br>51       | 0.000E+00              | 2.855E-03              | 9.931E-04               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.517E-04              | 0.000E+00<br>0.000E+00 |
| 52             | 0.000E+00<br>0.000E+00 | 2.934E-03<br>2.944E-03 | 9.659E-04               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.451E-04              | 0.000E+00              |
| 53             | 0.000E+00              | 3.082E-03              | .8.128E-04<br>6.367E-04 | 0.000E+00<br>0.000E+00 | 0.0002+00              | 0.000E+00              | 1.218E-04              | 0.000E+00              |
| 54             | 0.000E+00              | 3.139E-03              | 6.700E-04               | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.073E-04<br>1.017E-04 | 0.000E+00              |
| \$5<br>\$6     | 0.000E+00              | 2.688E-03              | 8.193E-04               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.220E-04              | 0.000E+00<br>0.000E+00 |
| 57             | 0.000E+00<br>0.000E+00 | 2.470E-03<br>2.237E-03 | 9.431E-04               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.407E-04              | 0.000E+00              |
| 58             | 0.000E+00              | 2.190E-03              | 1.029E-03<br>1.102E-03  | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 1.522E-04              | 0.000E+00              |
| 59             | 0.000E+00              | 2.146E-03              | 1.216E-03               | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.624E-04              | 0.000E+00              |
| 60             | 0.000E+00              | 2.110E-03              | 1.421E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.786E-04<br>2.085E-04 | 0.000E+00<br>0.000E+00 |
| 61<br>62       | 0.000E+00<br>0.000E+00 | 2.064E-03              | 2.550E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 3.820E-04              | 0.000E+00              |
| 63             | 0.000E+00              | 2.025E-03<br>1.990E-03 | 2.788E-03<br>1.833E-03  | 0.000E+00              | 0.000E+00              | 0.000E+00              | 4.216E-04              | 0.000E+00              |
| 64             | 0.000E+00              | 1.877E-03              | 1.655E-03               | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 2.698E-04<br>2.447E-04 | 0.000E+00              |
| 65             | 0.000E+00              | 1.855E-03              | 1.366E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.324E-04              | 0.000E+00<br>0.000E+00 |
| 66<br>67       | 0.000E+00<br>0.000E+00 | 1.833E-03              | 1.453E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.185E-04              | 0.000E+00              |
| 68             | 0.000E+00              | 1.813E-03<br>1.886E-03 | 1.229E-03<br>1.124E-03  | 0.000E+00              | 0.0000+00              | 0.000E+00              | 1.872E-04              | 0.000E+00              |
| . 69           | G.000E+00              | 2.107E-03              | 1.651E-03               | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.729E-04              | 0.000E+00              |
| 70             | 0.000E+00              | 2.411E-03              | 1.956E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.596E-04<br>2.934E-04 | 0.000E+00<br>0.000E+00 |
| 71<br>72       | 0.000E+00<br>0.000E+00 | 2.450E-03              | 2.785E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 4.330E-04              | 0.000E+00              |
| 73             | 0.000E+00              | 2.484E-03<br>2.494E-03 | 1.498E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.229E-04              | 0.000E+00              |
| 74             | 0.000E+00              | 2.494E-03              | 1.013E-03<br>1.271E-03  | 0.000E+00<br>0.000E+00 | 0.0002+00              | 0.000E+00              | 1.517E-04              | 0.000E+00              |
| 75             | 0.000E+00              | 2.793E-03              | 1.004E-03               | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.885E-04<br>1.493E-04 | 0.000E+00              |
| 76<br>77       | 0.000E+00              | 2.975E-03              | 1.029E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.493E-04<br>1.536E-04 | 0.000E+00<br>0.000E+00 |
| 78             | 0.000E+00<br>0.000E+00 | 3.199E-03<br>3.222E-03 | 1.135E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.688E-04              | 0.000E+00              |
| - 3            | 4.5442100              | 4445-43                | 1.117E-03               | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.652E-04              | 0.000E+00              |

| 79<br>80<br>81 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 3.754E-03              | 1.251E-03<br>1.292E-03<br>1.199E-03 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 1.913E-04              | 0.000E+00<br>0.000E+00<br>0.000E+00 |
|----------------|-------------------------------------|------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------|-------------------------------------|
| 82<br>83       | 0.000E+00<br>0.000E+00              | 4.560E-03              | 1.145E-03<br>1.273E-03              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 1.723E-04              | 0.000E+00<br>0.000E+00              |
| 84<br>85       | 0.000E+00<br>0.000E+00              |                        | 1.319E-03<br>1.818E-03              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 1.988E-04              | 0.000E+00<br>0.000E+00              |
| 86             | 0.000E+00                           | 1.255E-02              | 3.823E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 5.797E-04              | 0.000E+00                           |
| 87             | 0.000E+00                           | 1.179E-02              | 3.455E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           |                        | 0.000E+00                           |
| 88             | 0.000E+00                           | 1.217E-02              | 3.329E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 4.982E-04<br>4.789E-04 | 0.000E+00<br>0.000E+00              |
| 89<br>90       | 0.000E+00<br>0.000E+00              | 9.340E-03<br>9.700E-03 | 3.212E-03<br>2.851E-03              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 4.249E-04              | 0.000E+00                           |
| 91             | 0.000E+00                           | 1.800E-03              | 1.002E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.491E-04              | 0.000E+00                           |
| 92             | 0.000E+00                           | 1.723E-03              | 1.040E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.545E-04              | 0.000E+00                           |
| 93             | 0.000E+00                           | 1.656E-03              | 9.962E-04                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.482E-04              | 0.000E+00                           |
| 94             | 0.000E+00                           | 1.632E-03              | 1.027E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.511E-04              | 0.000E+00                           |
| 95             | 0.000E+00                           | 1.641E-03              | 1.094E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.608E-04              | 0.000E+00                           |
| 96             | 0.000E+00                           | 1.649E-03              | 1.121E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.676E-04              | 0.000E+00                           |
| 97             | 0.000E+00                           | 1.660E-03              | 1.332E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.978E-04              | 0.000E+00                           |
| 98             | 0.000E+00                           | 1.673E-03              | 1.518E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.278E-04              | 0.000E+00                           |
| 99             | 0.000E+00                           | 1.685E-03              | 1.294E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.909E-04              | 0.000E+00                           |
| 100            | 0.000E+00                           | 1.697E-03              | 1.381E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.065E-04              | 0.000E+00                           |
| 101            | 0.000E+00                           | 1.711E-03              | 1.272E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.884E-04              | 0.000E+00                           |
| 102            | 0.000E+00                           | 1.731E-03              | 1.434E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.117E-04              | 0.000E+00                           |
| 103            | 0.000E+00                           | 1.785E-03              | 1.026E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.528E-04              | 0.000E+00                           |
| 104            | 0.000E+00                           | 1.713E-03              | 9.742E-04                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.453E-04              | 0.000E+00                           |
| 105            | 0.000E+00                           | 1.663E-03              | 1.021E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.503E-04              | 0.000E+00                           |
| 106            | 0.000E+00                           | 1.674E-03              | 1.113E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.636E-04              | 0.000E+00                           |
| 107            | 0.000E+00                           | 1.683E-03              | 1.241E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.855E-04              | 0.000E+00                           |
| 108            | 0.000E+00                           | 1.686E-03              | 1.390E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.068E-04              | 0.000E+00                           |
| 109            | 0.000E+00                           | 1.705E-03              | 1.481E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.191E-04              | 0.000E+00                           |
| 110            | 0.000E+00                           | 1.718E-03              | 1.444E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.129E-04              | 0.000E+00                           |
| 111            | 0.000E+00                           | 1.730E-03              | 1.219E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.795E-04              | 0.000E+00                           |
| 112            | 0.000E+00                           | 1.743E-03              | 1.376E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.037E-04              | 0.000E+00                           |
| 113            | 0.000E+00                           | 1.756E-03              | 1.578E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.326E-04              | 0.000E+00                           |
| 114            | 0.000E+00                           | 1.779E-03              | 1.650E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.428E-04              | 0.000E+00                           |
| 115            | 0.000E+00                           | 1.776E-03              | 9.405E-04                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.409E-04              | 0.000E+00                           |
| 116            | 0.000E+00                           | 1.699E-03<br>1.708E-03 | 1.008E-03<br>1.124E-03              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 1.485E-04<br>1.654E-04 | 0.000E+00<br>0.000E+00              |
| 117<br>118     | 0.000E+00<br>0.000E+00              | 1.719E-03              | 1.321E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.977E-04              | 0.000E+00                           |
| 119            | 0.000E+00                           | 1.731E-03              | 1.543E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.297E-04              | 0.000E+00                           |
| 120            | 0.000E+00                           | 1.741E-03              | 1.626E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.406E-04              | 0.000E+00                           |
| 121            | 0.000E+00                           | 1.753E-03              | 1.536E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.266E-04              | 0.000E+00                           |
| 122            | 0.000E+00                           | 1.767E-03              | 1.357E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.998E-04              | 0.000E+00                           |
| 123            | 0.000E+00                           | 1.779E-03              | 1.469E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.172E-04              | 0.000E+00                           |
| 124            | 0.000E+00                           | 1.800E-03              | 1.638E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.413E-04              | 0.000E+00                           |
| 125            | 0.000E+00                           | 1.816E-03              | 1.710E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.515E-04              | 0.000E+00                           |
| 126            | 0.000E+00                           | 1.830E-03              | 1.778E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.610E-04              | 0.000E+00                           |
| 127            | 0.000E+00                           | 1.759E-03              | 9.879E-04                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.459E-04              | 0.000E+00                           |
| 128            | 0.000E+00                           | 1.748E-03              | 1.129E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.664E-04              | 0.000E+00                           |
| 129            | 0.000E+00                           | 1.761E-03              | 1.364E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.050E-04              | 0.000E+00                           |
| 130            | 0.000E+00                           | 1.776E-03              | 1.513E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.264E-04              | 0.000E+00                           |
| 131            | 0.000E+00                           | 1.783E-03              | 1.372E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.046E-04<br>2.483E-04 | 0.000E+00<br>0.000E+00              |
| 132            | 0.000E+00                           | 1.800E-03              | 1.683E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.161E-04              | 0.000E+00                           |
| 133            | 0.000E+00                           | 1.805E-03              | 1.467E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.213E-04              | 0.000E+00                           |
| 134<br>135     | 0.000E+00<br>0.000E+00              | 1.825E-03<br>1.842E-03 | 1.496E-03<br>1.627E-03              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00                           | 2.399E-04              | 0.000E+00                           |
| 136            | 0.000E+00                           | 1.855E-03              | 2.278E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 3.484E-04              | 0.000E+00                           |
| 137            | 0.000E+00                           | 1.870E-03              | 1.890E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.892E-04              | 0.000E+00                           |
| 138            | 0.000E+00                           | 1.885E-03              | 1.966E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 3.001E-04              | 0.000E+00                           |
| 139            | 0.000E+00                           | 1.803E-03              | 1.132E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.710E-04              | 0.000E+00                           |
| 140            | 0.000E+00                           | 1.807E-03              | 1.360E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.060E-04              | 0.000E+00                           |
| 141            | 0.000E+00                           | 1.817E-03              | 1.556E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.344E-04              | 0.000E+00                           |
| 142            | 0.000E+00                           | 1.823E-03              | 1.721E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.893E-04              | 0.000E+00                           |
| 143            | 0.000E+00                           | 1.841E-03              | 1.594E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.646E-04              | 0.000E+00                           |
| 144            | 0.000E+00                           | 1.857E-03              | 1.501E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.213E-04              | 0.000E+00                           |
| 145            | 0.000E+00                           | 1.869E-03              | 1.590E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.352E-04              | 0.000E+00                           |
| 146<br>147     | 0.000E+00                           | 1.886E-03              | 1.679E-03<br>1.929E-03              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 2.476E-04<br>2.930E-04 | 0.000E+00<br>0.000E+00              |
| 148            | 0.000E+00<br>0.000E+00              | 1.900E-03<br>1.915E-03 | 2.491E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00<br>0.000E+00              | 3.815E-04<br>3.880E-04 | 0.000E+00<br>0.000E+00              |
| 149<br>150     | 0.000E+00<br>0.000E+00              | 1.931E-03<br>1.943E-03 | 2.558E-03<br>2.474E-03              | 0.000E+00                           | 0.000E+00<br>0.000E+00              | 0.000E+00                           | 3.738E-04              | 0.000E+00                           |
| 151            | 0.000E+00                           | 1.933E-03              | 1.735E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.559E-04              | 0.000E+00                           |
| 152            | 0.000E+00                           | 1.947E-03              | 2.422E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 3.726E-04              | 0.000E+00                           |
| 153            | 0.000E+00                           | 1.964E-03              | 2.728E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 4.160E-04              | 0.000E+00                           |
| 154            | 0.000E+00                           | 1.983E-03              | 1.766E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.591E-04              | 0.000E+00                           |
| 155            | 0.000E+00                           | 1.991E-03              | 2.640E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 3.971E-04              | 0.000E+00                           |
| 156            | 0.000E+00                           | 2.016E-03              | 2.489E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 3.737E-04              | 0.000E+00                           |
| 157            | 0.000E+00                           | 2.498E-03              | 1.183E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.754E-04              | 0.000E+00                           |
| 158            | 0.000E+00                           | 2.193E-03              | 1.040E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.595E-04              | 0.000E+00                           |
| 159            | 0.000E+00                           | 1.944E-03              | 6.428E-04                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 9.598E-05              | 0.000E+00                           |
| 160            | 0.000E+00                           |                        | 8.369E-04                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.274E-04              | 0.000E+00                           |
| 161<br>162     | 0.000E+00<br>0.000E+00              | 1.594E-03              | 8.497E-04<br>8.518E-04              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00                           | 1.259E-04<br>1.256E-04 | 0.000E+00<br>0.000E+00              |
| 163<br>164     | 0.000E+00<br>0.000E+00              | 1.485E-03              | 9.356E-04<br>9.526E-04              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00                           | 1.376E-04<br>1.435E-04 | 0.000E+00<br>0.000E+00              |
| 165            | 0.000E+00                           | 1.540E-03              | 1.451E-03                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 2.155E-04<br>2.301E-04 | 0.000E+00<br>0.000E+00              |
| 166<br>167     | 0.000E+00<br>0.000E+00              | 1.594E-03              | 1.559E-03<br>1.312E-03              | 0.000E+00<br>0.000E+00              | 0.000E+00                           | 0.000E+00                           | 1.936E-04              | 0.000E+00<br>0.000E+00              |
| 168<br>169     | 0.000E+00                           | 1.933E-03              | 8.392E-04<br>7.009E-04              | 0.000E+00<br>0.000E+00              | 0.000E+00                           | 0.000E+00                           |                        | 0.000E+00                           |
| 170<br>171     | 0.000E+00<br>0.000E+00              | 1.570E-03              | 9.123E-04<br>8.968E-04              | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.330E-04              | 0.000E+00<br>0.000E+00              |
| 172<br>173     | 0.000E+00                           | 1.566E-03              | 9.946E-04<br>1.004E-03              | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 1.517E-04              | 0.000E+00<br>0.000E+00              |
| 174<br>175     | 0.000E+00                           | 1.594E-03              | 1.438E-03<br>1.393E-03              |                                     |                                     |                                     |                        | 0.000E+00<br>0.000E+00              |
|                | -                                   |                        |                                     | •                                   | Page 67                             |                                     |                        |                                     |

| 176        | 0.000E+00              | 1.655E-03              | 1 4600-00              |                        |                        |                        |                        |                        |
|------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| 177        | 0.000E+00              | 1.686E-03              | 1.468E-03<br>1.568E-03 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.162E-04              | 0.000E+00              |
| 178        | 0.000E+00              | 2.175E-03              | 1.009E-03              | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 2.301E-04              | 0.000E+00              |
| 179        | 0.000E+00              | 1.898E-03              | 7.610E-04              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.497E-04<br>1.142E-04 | 0.000E+00              |
| 180        | 0.000E+00              | 1.695E-03              | 1.040E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.542E-04              | 0.000E+00<br>0.000E+00 |
| 181        | 0.000E+00              | 1.602E-03              | 1.026E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.509E-04              | 0.000E+00              |
| 182<br>183 | 0.000E+00              | 1.626E-03              | 1.305E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.938E-04              | 0.000E+00              |
| 184        | 0.000E+00<br>0.000E+00 | 1.656E-03              | 1.391E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.082E-04              | 0.000E+00              |
| 185        | 0.000E+00              | 1.695E-03<br>1.723E-03 | 1.261E-03<br>1.657E-03 | 0.000E+00              | 0.000E+00              | 0.0002+00              | 1.866E-04              | 0.000E+00              |
| 186        | 0.000E+00              | 1.758E-03              | 1.621E-03              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 2.435E-04              | 0.000E+00              |
| 187        | 0.000E+00              | 1.793E-03              | 1.519E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 2.377E-04<br>2.231E-04 | 0.000E+00<br>0.000E+00 |
| 188        | 0.000E+00              | 2.140E-03              | 1.306E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.960E-04              | 0.000E+00              |
| 189        | 0.000E+00              | 1.863E-03              | 8.476E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.274E-04              | 0.000E+00              |
| 190<br>191 | 0.000E+00              | 1.681E-03              | 1.015E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.495E-04              | 0.000E+00              |
| 192        | 0.000E+00<br>0.000E+00 | 1.705E-03<br>1.735E-03 | 1.414E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.109E-04              | 0.000E+00              |
| 193        | 0.000E+00              | 1.767E-03              | 1.489E-03<br>1.518E-03 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.196E-04              | 0.000E+00              |
| 194        | 0.000E+00              | 1.811E-03              | 1.762E-03              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 2.241E-04              | 0.000E+00              |
| 195        | 0.000E+00              | 1.843E-03              | 1.609E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.587E-04<br>2.358E-04 | 0.000E+00<br>0.000E+00 |
| 196        | 0.000E+00              | 1.888E-03              | 1.589E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.331E-04              | 0.000E+00              |
| 197        | 0.000E+00              | 1.924E-03              | 1.409E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.068E-04              | 0.000E+00              |
| 198<br>199 | 0.000E+00              | 2.105E-03              | 1.581E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.391E-04              | 0.000E+00              |
| 200        | 0.000E+00<br>0.000E+00 | 1.832E-03              | 9.650E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.432E-04              | 0.000E+00              |
| 201        | 0.000E+00              | 1.810E-03<br>1.878E-03 | 1.490E-03<br>1.599E-03 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.249E-04              | 0.000E+00              |
| 202        | 0.000E+00              | 1.956E-03              | 2.454E-03              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 2.363E-04<br>3.690E-04 | 0.000E+00              |
| 203        | 0.000E+00              | 2.002E-03              | 1.548E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.269E-04              | 0.000E+00<br>0.000E+00 |
| 204        | 0.000E+00              | 2.035E-03              | 1.267E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.861E-04              | 0.000E+00              |
| 205        | 0.000E+00              | 2.092E-03              | 1.153E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.696E-04              | 0.000E+00              |
| 206<br>207 | 0.000E+00              | 2.302E-03              | 9.875E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.466E-04              | 0.000E+00              |
| 208        | 0.000E+00<br>0.000E+00 | 2.573E-03<br>2.293E-03 | 9.108E-04<br>4.723E-04 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.357E-04              | 0.000E+00              |
| 209        | 0.000E+00              | 2.303E-03              | 6.047E-04              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 7.117E-05              | 0.000E+00              |
| 210        | 0.000E+00              | 2.303E-03              | 6.707E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 8.989E-05<br>9.994E-05 | 0.000E+00<br>0.000E+00 |
| 211        | 0.000E+00              | 2.326E-03              | 5.757E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 8.492E-05              | 0.000E+00              |
| 212        | 0.000E+00              | 2.281E-03              | 7.587E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.125E-04              | 0.000E+00              |
| 213<br>214 | 0.000E+00              | 2.111E-03              | 8.763E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.302E-04              | 0.000E+00              |
| 215        | 0.000E+00<br>0.000E+00 | 1.924E-03              | 6.925E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.033E-04              | 0.000E+00              |
| 216        | 0.000E+00              | 1.901E-03<br>1.865E-03 | 8.901E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.318E-04              | 0.000E+00              |
| 217        | 0.000E+00              | 1.889E-03              | 8.494E-04<br>9.003E-04 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 1.257E-04              | 0.000E+00              |
| 218        | 0.000E+00              | 1.799E-03              | 8.028E-04              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.332E-04<br>1.188E-04 | 0.000E+00              |
| 219        | 0.000E+00              | 1.615E-03              | 1.042E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.557E-04              | 0.000E+00<br>0.000E+00 |
| 220        | 0.000E+00              | 1.510E-03              | 6.209E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 9.281E-05              | 0.000E+00              |
| 221<br>222 | 0.000E+00              | 1.368E-03              | 3.711E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 5.549E-05              | 0.000E+00              |
| 223        | 0.000E+00<br>0.000E+00 | 1.241E-03              | 5.057E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 7.489E-05              | 0.000E+00              |
| 224        | 0.000E+00              | 1.176E-03<br>1.199E-03 | 5.943E-04<br>6.428E-04 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 8.761E-05              | 0.000E+00              |
| 225        | 0.000E+00              | 1.223E-03              | 6.509E-04              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 9.480E-05              | 0.000E+00              |
| 226        | 0.000E+00              | 1.245E-03              | 7.298E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 9.624E-05<br>1.087E-04 | 0.000E+00              |
| 227        | 0.000E+00              | 2.370E-03              | 6.895E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.028E-04              | 0.000E+00<br>0.000E+00 |
| 228        | 0.000E+00              | 2.500E-03              | 5.934E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 8.901E-05              | 0.000E+00              |
| 229<br>230 | 0.000E+00              | 2.532E-03              | 6.014E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 8.939E-05              | 0.000E+00              |
| 231        | 0.000E+00<br>0.000E+00 | 2.617E-03<br>2.470E-03 | 7.185E~04<br>6.303E-04 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.069E-04              | 0.000E+00              |
| 232        | 0.000E+00              | 2.335E-03              | 8.353E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 9.317E-05              | 0.000E+00              |
| 233        | 0.000E+00              | 2.188E-03              | 9.126E-04              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.240E-04<br>1.355E-04 | 0.000E+00              |
| 234        | 0.000E+00              | 2.102E-03              | 8.014E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.189E-04              | 0.000E+00<br>0.000E+00 |
| 235        | 0.000E+00              | 2.087E-03              | 8.981E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.328E-04              | 0.000E+00              |
| 236<br>237 | 0.000E+00              | 2.067E-03              | 9.407E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.392E-04              | 0.000E+00              |
| 238        | 0.000E+00<br>0.000E+00 | 1.960E-03<br>1.756E-03 | 8.348E-04<br>1.043E-03 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.235E-04              | 0.000E+00              |
| 239        | 0.000E+00              | 1.530E-03              | 6.144E-04              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 1.564E-04              | 0.000E+00              |
| 240        | 0.000E+00              | 1.401E-03              | 5.506E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 9.184E-05<br>8.168E-05 | 0.000E+00<br>0.000E+00 |
| 241        | 0.000E+00              | 1.264E-03              | 5.810E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 8.581E-05              | 0.000E+00              |
| 242        | 0.000E+00              | 1.246E-03              | 6.873E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.014E-04              | 0.000E+00              |
| 243<br>244 | 0.000E+00              | 1.277E-03              | 6.703E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 9.930E-05              | 0.000E+00              |
| 245        | 0.000E+00<br>0.000E+00 | 1.306E-03<br>1.325E-03 | 8.364E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.245E-04              | 0.000E+00              |
| 246        | 0.000E+00              | 2.633E-03              | 9.413E-04<br>5.827E-04 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 1.390E~04              | 0.000E+00              |
| 247        | 0.000E+00              | 2.637E-03              | 7.092E-04              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 8.651E-05              | 0.000E+00              |
| 248        | 0.000E+00              | 2.730E-03              | 7.127E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.055E-04<br>1.064E-04 | 0.000E+00<br>0.000E+00 |
| 249        | 0.000E+00              | 2.862E-03              | 5.870E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 8.725E-05              | 0.000E+00              |
| 250        | 0.000E+00              | 2.851E-03              | 7.708E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.145E-04              | 0.000E+00              |
| 251<br>252 | 0.000E+00              | 2.744E-03              | 6.789E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.006E-04              | 0.000E+00              |
| 253        | 0.000E+00<br>0.000E+00 | 2.462E-03<br>2.392E-03 | 9.370E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.391E-04              | 0.000E+00              |
| 254        | 0.000E+00              | 2.339E-03              | 8.968E-04<br>9.773E-04 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 1.332E-04              | 0.000E+00              |
| 255        | 0.000E+00              | 2.333E-03              | 9.652E-04              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.444E-04<br>1.429E-04 | 0.000E+00<br>0.000E+00 |
| 256<br>257 | 0.000E+00              | 2.086E-03              | 8.675E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.429E-04<br>1.284E-04 | 0.000E+00              |
| 257        | 0.000E+00              | 1.870E-03              | 1.020E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.537E-04              | 0.000E+00              |
| 258<br>259 | 0.000E+00<br>0.000E+00 | 1.618E-03              | 6.220E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 9.287E-05              | 0.000E+00              |
| 260        | 0.000E+00              | 1.420E-03<br>1.304E-03 | 6.300E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 9.332E-05              | 0.000E+00              |
| 261        | 0.000E+00              | 1.336E-03              | 7.051E-04<br>6.825E-04 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 1.041E-04              | 0.000E+00              |
| 262        | 0.000E+00              | 1.371E-03              | 9.730E-04              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.004E-04<br>1.448E-04 | 0.000E+00<br>0.000E+00 |
| 263        | 0.000E+00              | 1.396E-03              | 1.035E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.527E-04              | 0.000E+00              |
| 264        | 0.000E+00              | 1.427E-03              | 1.214E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.789E-04              | 0.000E+00              |
| 265<br>266 | 0.000E+00              | 2.631E-03              | 7.454E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.112E-04              | 0.000E+00              |
| 267        | 0.000E+00<br>0.000E+00 | 2.853E-03<br>2.903E-03 | 6.773E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.014E-04              | 0.000E+00              |
| 268        | 0.000E+00              | 3.010E-03              | 6.654E-04<br>7.972E-04 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 9.888E-05              | 0.000E+00              |
| 269        | 0.000E+00              | 3.091E-03              | 6.590E-04              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.186E-04<br>9.880E-05 | 0.000E+00<br>0.000E+00 |
| 270        | 0.000E+00              | 3.119E-03              | 8.267E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.227E-04              | 0.000E+00              |
| 271<br>272 | 0.000E+00              | 2.877E-03              | 7.372E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.096E-04              | 0.000E+00              |
| 4/4        | 0.000E+00              | 2.682E-03              | 1.065E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.577E-04              | 0.000E+00              |
|            |                        |                        |                        |                        |                        |                        |                        |                        |

| 273        | 0.000E+00              | 2.675E-03              | 1.058E-03                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.568E-04              | 0.000E+00              |
|------------|------------------------|------------------------|---------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| 274        | 0.000E+00              | 2.602E-03              | 9.346E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.382E-04              | 0.000E+00              |
| 275<br>276 | 0.000E+00<br>0.000E+00 | 2.257E-03<br>1.907E-03 | 9.005E-04<br>9.675E-04          | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.334E-04              | 0.000E+00              |
| 277        | 0.000E+00              | 1.624E-03              | 6.451E-04                       | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.471E-04<br>9.592E-05 | 0.000E+00<br>0.000E+00 |
| 278        | 0.000E+00              | 1.407E-03              | 7.682E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.132E-04              | 0.000E+00              |
| 279<br>280 | 0.000E+00<br>0.000E+00 | 1.407E-03<br>1.449E-03 | 7.991E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.175E-04              | 0.000E+00              |
| 281        | 0.000E+00              | 1.490E-03              | 1.158E-03<br>1.129E-03          | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.722E-04<br>1.665E-04 | 0.000E+00<br>0.000E+00 |
| 282        | 0.000E+00              | 1.526E-03              | 1.355E-03                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.993E-04              | 0.000E+00              |
| 283<br>284 | 0.000E+00<br>0.000E+00 | 1.574E-03<br>2.669E-03 | 1.195E-03<br>7.626E-04          | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.0002+00              | 1.762E-04              | 0.000E+00              |
| 285        | 0.000E+00              | 2.891E-03              | 8.137E-04                       | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.131E-04<br>1.210E-04 | 0.000E+00<br>0.000E+00 |
| 286        | 0.000E+00              | 3.016E-03              | 8.282E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.235E-04              | 0.000E+00              |
| 287<br>288 | 0.000E+00<br>0.000E+00 | 3.185E-03<br>3.416E-03 | 7.646E-04<br>8.032E-04          | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.144E-04<br>1.193E-04 | 0.000E+00<br>0.000E+00 |
| 289        | 0.000E+00              | 3.609E-03              | 8.384E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.250E-04              | 0.000E+00              |
| 290<br>291 | 0.000E+00<br>0.000E+00 | 3.475E-03              | 8.843E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.310E-04              | 0.000E+00              |
| 292        | 0.000E+00              | 2.961E-03<br>3.091E-03 | 8.524E-04<br>1.771E-03          | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.267E-04<br>2.721E-04 | 0.000E+00<br>0.000E+00 |
| 293        | 0.000E+00              | 2.934E-03              | 1.096E-03                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.630E-04              | 0.000E+00              |
| 294<br>295 | 0.000E+00<br>0.000E+00 | 1.644E-03<br>1.711E-03 | 1.407E-03<br>1.371E-03          | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 2.065E-04              | 0.000E+00              |
| 296        | 0.000E+00              | 1.748E-03              | 1.160E-03                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.016E-04<br>1.710E-04 | 0.000E+00<br>0.000E+00 |
| 297<br>298 | 0.000E+00              | 2.504E-03              | 6.107E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 8.982E-05              | 0.000E+00              |
| 299        | 0.000E+00<br>0.000E+00 | 2.965E-03<br>3.137E-03 | 6.986E-04<br>7.799E-04          | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.031E-04<br>1.155E-04 | 0.000E+00<br>0.000E+00 |
| 300        | 0.000E+00              | 3.340E-03              | 8.665E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.287E-04              | 0.000E+00              |
| 301<br>302 | 0.000E+00<br>0.000E+00 | 3.550E-03<br>3.928E-03 | 9.332E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.389E-04              | 0.000E+00              |
| 303        | 0.000E+00              | 4.241E-03              | 8.875E-04<br>9.686E-04          | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.325E-04<br>1.439E-04 | 0.000E+00<br>0.000E+00 |
| 304        | 0.000E+00              | 3.647E-03              | 9.403E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.393E-04              | 0.000E+00              |
| 305<br>306 | 0.000E+00<br>0.000E+00 | 3.638E-03<br>1.869E-03 | 1.097E-03                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.628E-04              | 0.000E+00              |
| 307        | 0.000E+00              | 1.940E-03              | 1.307E-03<br>1.110E-03          | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.921E-04<br>1.633E-04 | 0.000E+00<br>0.000E+00 |
| 308        | 0.000E+00              | 1.957E-03              | 1.003E-03                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.482E-04              | 0.000E+00              |
| 309<br>310 | 0.000E+00<br>0.000E+00 | 2.704E-03<br>2.903E-03 | 4.355E-04<br>5.045E-04          | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 6.564E-05<br>7.380E-05 | 0.000E+00              |
| 311        | 0.000E+00              | 3.007E-03              | 6.076E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 8.918E-05              | 0.000E+00<br>0.000E+00 |
| 312<br>313 | 0.000E+00              | 3.454E-03              | 6.822E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.006E-04              | 0.000E+00              |
| 313        | 0.000E+00<br>0.000E+00 | 3.752E-03<br>4.145E-03 | 7.612E-04<br>8.986E-04          | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.128E-04<br>1.334E-04 | 0.000E+00<br>0.000E+00 |
| 315        | 0.000E+00              | 4.735E-03              | 1.063E-03                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.578E-04              | 0.000E+00              |
| 316<br>317 | 0.000E+00<br>0.000E+00 | 5.078E-03<br>4.542E-03 | 1.063E-03<br>1.121E-03          | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 1.583E-04              | 0.000E+00              |
| 318        | 0.000E+00              | 2.194E-03              | 9.997E-04                       | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.680E-04<br>1.480E-04 | 0.000E+00<br>0.000E+00 |
| 319        | 0.000E+00              | 2.204E-03              | 8.676E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.289E-04              | 0.000E+00              |
| 320<br>321 | 0.000E+00<br>0.000E+00 | 2.286E-03<br>2.578E-03 | 6.322E-04<br>8.842E-04          | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 9.400E-05              | 0.000E+00              |
| 322        | 0.000E+00              | 2.849E-03              | 8.995E-04                       | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.355E-04<br>1.380E-04 | 0.000E+00<br>0.000E+00 |
| 323<br>324 | 0.000E+00              | 3.140E-03              | 9.142E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.405E-04              | 0.000E+00              |
| 325        | 0.000E+00<br>0.000E+00 | 3.293E-03<br>3.764E-03 | 9.271E-04<br>9.361E-04          | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.427E-04<br>1.443E-04 | 0.000E+00<br>0.000E+00 |
| 326        | 0.000E+00              | 4.372E-03              | 9.379E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.449E-04              | 0.000E+00              |
| 327<br>328 | 0.000E+00<br>0.000E+00 | 5.022E-03<br>6.789E-03 | 1.108E-03<br>1.271E-03          | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 1.655E-04              | 0.000E+00              |
| 329        | 0.000E+00              | 6.761E-03              | 1.431E-03                       | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.898E-04<br>2.143E-04 | 0.000E+00<br>0.000E+00 |
| 330<br>331 | 0.000E+00              | 2.665E-03              | 7.036E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.045E-04              | 0.000E+00              |
| 332        | 0.000E+00<br>0.000E+00 | 2.703E-03<br>2.566E-03 | 6.902E-04<br>6.988E-04          | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.027E-04<br>1.040E-04 | 0.000E+00<br>0.000E+00 |
| 333        | 0.000E+00              | 2.510E-03              | 2.337E-03                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 3.484E-04              | 0.000E+00              |
| 334<br>335 | 0.000E+00<br>0.000E+00 | 2.692E-03<br>2.924E-03 | 2.441E-03<br>2.550E-03          | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 3.635E-04              | 0.000E+00<br>0.000E+00 |
| 336        | 0.000E+00              | 3.247E-03              | 2.663E-03                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 3.794E-04<br>3.958E-04 | 0.000E+00              |
| 337        | 0.000E+00              | 3.745E-03              | 2.773E-03                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 4.118E-04              | 0.000E+00              |
| 338<br>339 | 0.000E+00<br>0.000E+00 | 4.488E-03<br>5.296E-03 | 2.86 <i>5</i> E-03<br>2.910E-03 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 4.253E-04<br>4.321E-04 | 0.000E+00<br>0.000E+00 |
| 340        | 0.000E+00              | 7.010E-03              | 2.838E-03                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 4.222E-04              | 0.000E+00              |
| 341<br>342 | 0.000E+00<br>0.000E+00 | 3.292E-03              | 6.837E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.329E-04              | 0.000E+00              |
| 343        | 0.000E+00              | 3.417E-03<br>3.351E-03 | 7.779E-04<br>7.918E-04          | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.156E-04<br>1.173E-04 | 0.000E+00<br>0.000E+00 |
| 344        | 0.000E+00              | 3.095E-03              | 7.337E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.086E-04              | 0.000E+00              |
| 345<br>346 | 0.000E+00<br>0.000E+00 | 2.880E-03<br>2.568E-03 | 6.399E-04<br>2.733E-03          | 0.000E+00              | 0.000E+00              | 0.000E+00              | 9.455E-05              | 0.000E+00              |
| 347        | 0.000E+00              | 2.676E-03              | 2.756E-03                       | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 4.063E-04<br>4.098E-04 | 0.000E+00<br>0.000E+00 |
| 348        | 0.000E+00              | 2.601E-03              | 2.774E-03                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 4.126E-04              | 0.000E+00              |
| 349<br>350 | 0.000E+00<br>0.000E+00 | 2.442E-03<br>3.414E-03 | 2.793E-03<br>2.822E-03          | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 4.155E-04<br>4.199E-04 | 0.000E+00<br>0.000E+00 |
| 351        | 0.000E+00              | 3.920E-03              | 2.876E-03                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 4.279E-04              | 0.000E+00              |
| 352<br>353 | 0.000E+00              | 4.451E-03              | 2.971E-03                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 4.420E-04              | 0.000E+00              |
| 354        | 0.000E+00<br>0.000E+00 | 6.623E-03<br>4.753E-03 | 3.103E-03<br>6.897E-04          | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 4.621E-04<br>1.268E-04 | 0.000E+00<br>0.000E+00 |
| 355        | 0.000E+00              | 4.199E-03              | 5.684E-04                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 9.291E-05              | 0.000E+00              |
| 356<br>357 | 0.000E+00<br>0.000E+00 | 3.846E-03<br>3.492E-03 | 5.101E-04<br>4.701E-04          | 0.000E+00              | 0.000E+00              | 0.000E+00              | 7.727E-05              | 0.000E+00              |
| 358        | 0.000E+00              | 3.492E-03              | 4.386E-04                       | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 6.932E-05<br>6.464E-05 | 0.000E+00<br>0.000E+00 |
| 359        | 0.000E+00              | 2.610E-03              | 2.144E-03                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 3.151E-04              | 0.000E+00              |
| 360<br>361 | 0.000E+00<br>0.000E+00 | 2.834E-03<br>3.070E-03 | 2.140E-03<br>2.130E-03          | 0.000E+00              | 0.000E+00              | 0.000E+00              | 3.141E-04<br>3.122E-04 | 0.000E+00              |
| 362        | 0.000E+00              | 3.328E-03              | 2.109E-03                       | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 3.122E-04<br>3.087E-04 | 0.000E+00<br>0.000E+00 |
| 363<br>364 | 0.000E+00              | 3.631E-03              | 2.076E-03                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 3.032E-04              | 0.000E+00              |
| 364<br>365 | 0.000E+00<br>0.000E+00 | 4.038E-03<br>4.626E-03 | 2.035E-03<br>1.994E-03          | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 2.967E-04<br>2.902E-04 | 0.000E+00<br>0.000E+00 |
| 366        | 0.000E+00              | 5.512E-03              | 1.947E-03                       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.827E-04              | 0.000E+00              |
| 367<br>368 | 0.000E+00<br>0.000E+00 | 7.276E-03<br>9.912E-03 | 1.984E-03<br>1.660E-03          | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.877E-04              | 0.000E+00              |
| 369        | 0.000E+00              | 6.459E-03              | 9.072E-04                       | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 2.449E-04<br>1.375E-04 | 0.000E+00<br>0.000E+00 |
|            |                        |                        |                                 |                        |                        |                        |                        |                        |

| 370        | 0.000E+00              | 5.192E-03              | 5.239E-04              | 0.000E+00              | 0.000E+00              | 0 0005400              | 1 0662-06              | 0.0001.00              |
|------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| 371        | 0.000E+00              | 4.463E-03              | 6.192E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 1.056E-04<br>9.291E-05 | 0.0002+00              |
| 372        | 0.000E+00              | 3.983E-03              | 5.738E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 8.632E-05              | 0.000E+00<br>0.000E+00 |
| 373        | 0.000E+00              | 3.621E-03              | 5.218E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 7.794E-05              | 0.000E+00              |
| 374        | 0.000E+00              | 3.312E-03              | 4.794E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 7.138E-05              | 0.000E+00              |
| 375<br>376 | 0.000E+00<br>0.000E+00 | 2.054E-03              | 6.180E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 9.153E-05              | 0.000E+00              |
| 377        | 0.000E+00              | 2.059E-03              | 6.646E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 9.829E-05              | 0.000E+00              |
| 378        | 0.000E+00              | 2.030E-03              | 6.929E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.024E-04              | 0.000E+00              |
| 379        | 0.000E+00              | 2.403E-03<br>3.289E-03 | 6.944E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.025E-04              | 0.000E+00              |
| 380        | 0.000E+00              | 4.001E-03              | 6.514E-04<br>6.208E-04 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 9.604E-05              | 0.000E+00              |
| 381        | 0.000E+00              | 4.616E-03              | 8.552E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 9.253E-05<br>1.258E-04 | 0.000E+00              |
| 382        | 0.000E+00              | 5.528E-03              | 9.876E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.447E-04              | 0.000E+00<br>0.000E+00 |
| 383        | 0.000E+00              | 7.073E-03              | 2.592E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 3.808E-04              | 0.000E+00              |
| 384        | 0.000E+00              | 7.701E-03              | 3.130E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 4.618E-04              | 0.000E+00              |
| 385<br>386 | 0.000E+00              | 9.775E-03              | 2.699E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 3.989E-04              | 0.000E+00              |
| 387        | 0.000E+00<br>0.000E+00 | 9.513E-03              | 1.924E-03              | 0.000E+00              | 0.000E+00              | 0.0002+00              | 2.835E-04              | 0.000E+00              |
| 388        | 0.000E+00              | 9.567E-03<br>6.531E-03 | 1.193E-03<br>1.070E-03 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 1.761E-04              | 0.000E+00              |
| 389        | 0.000E+00              | 5.186E-03              | 1.141E-03              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.593E-04              | 0.000E+00              |
| 390        | 0.000E+00              | 4.441E-03              | 3.942E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.700E-04<br>7.731E-05 | 0.000E+00              |
| 391        | 0.000E+00              | 3.861E-03              | 3.912E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 7.228E-05              | 0.000E+00<br>0.000E+00 |
| 392        | 0.000E+00              | 3.481E-03              | 4.322E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 6.782E-05              | 0.000E+00              |
| 393        | 0.000E+00              | 3.284E-03              | 4.517E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 6.67SE-05              | 0.000E+00              |
| 394<br>395 | 0.000E+00              | 2.515E-03              | 5.682E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 8.386E-05              | 0.000E+00              |
| 396        | 0.000E+00<br>0.000E+00 | 2.562E-03<br>2.917E-03 | 5.188E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 7.651E-05              | 0.000E+00              |
| 397        | 0.000E+00              | 3.147E-03              | 4.700E-04<br>5.362E-04 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 6.975E-05              | 0.000E+00              |
| 398        | 0.000E+00              | 2.780E-03              | 5.752E-04              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 7.944E-05              | 0.000E+00              |
| 399        | 0.000E+00              | 3.657E-03              | 8.472E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 8.475E-05              | 0.000E+00              |
| 400        | 0.000E+00              | 3.867E-03              | 7.544E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.246E-04<br>1.108E-04 | 0.000E+00<br>0.000E+00 |
| 401        | 0.000E+00              | 3.889E-03              | 1.186E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.762E-04              | 0.000E+00              |
| 402        | 0.000E+00              | 3.613E-03              | 2.555E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 3.786E-04              | 0.000E+00              |
| 403        | 0.000E+00              | 3.641E-03              | 3.111E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 4.585E-04              | 0.000E+00              |
| 404<br>405 | 0.000E+00              | 5.263E-03              | 2.391E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 3.539E-04              | 0.000E+00              |
| 406        | 0.000E+00<br>0.000E+00 | 5.614E-03              | 1.662E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.451E-04              | 0.000E+00              |
| 407        | 0.000E+00              | 5.382E-03<br>5.212E-03 | 9.818E-04<br>9.252E-04 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.452E-04              | 0.000E+00              |
| 408        | 0.000E+00              | 5.155E-03              | 9.380E-04              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 1.367E-04              | 0.000E+00              |
| 409        | 0.000E+00              | 4.382E-03              | 9.923E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 1.394E-04<br>1.476E-04 | 0.000E+00              |
| 410        | 0.000E+00              | 3.851E-03              | 3.493E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 6.433E-05              | 0.000E+00<br>0.000E+00 |
| 411        | 0.000E+00              | 3.537E-03              | 3.560E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 6.273E-05              | 0.000E+00              |
| 412<br>413 | 0.000E+00              | 3.181E-03              | 3.421E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 5.948E-05              | 0.000E+00              |
| 414        | 0.000E+00<br>0.000E+00 | 2.922E-03              | 7.708E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.134E-04              | 0.000E+00              |
| 415        | 0.000E+00              | 2.404E-03<br>2.017E-03 | 5.070E-04<br>5.547E-04 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 7.481E-05              | 0.000E+00              |
| 416        | 0.000E+00              | 2.806E-03              | 6.086E-04              | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 8.508E-05              | 0.000E+00              |
| 417        | 0.000E+00              | 2.271E-03              | 4.364E-04              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 8.962E-05<br>6.827E-05 | 0.000E+00              |
| 418        | 0.000E+00              | 1.990E-03              | 6.864E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.023E-04              | 0.000E+00<br>0.000E+00 |
| 419        | 0.000E+00              | 2.782E-03              | 5.169E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 7.788E-05              | 0.000E+00              |
| 420        | 0.000E+00              | 2.253E-03              | 1.246E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.869E-04              | 0.000E+00              |
| 421<br>422 | 0.000E+00              | 2.100E-03              | 1.946E-03.             | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.878E-04              | 0.000E+00              |
| 423        | 0.000E+00<br>0.000E+00 | 2.959E-03<br>2.512E-03 | 2.067E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 3.069E-04              | 0.000E+00              |
| 424        | 0.000E+00              | 2.257E-03              | 1.956E-03<br>1.897E-03 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 2.886E-04              | 0.000E+00              |
| 425        | 0.000E+00              | 3.041E-03              | 2.812E-03              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00              | 2.817E-04              | 0.000E+00              |
| 426        | 0.000E+00              | 2.645E-03              | 2.713E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 4.144E-04<br>3.991E-04 | 0.000E+00              |
| 427        | 0.000E+00              | 2.346E-03              | 2.566E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 3.795E-04              | 0.000E+00<br>0.000E+00 |
| 428        | 0.000E+00              | 3.047E-03              | 3.026E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 4.462E-04              | 0.000E+00              |
| 429        | 0.000E+00              | 2.653E-03              | 2.889E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 4.263E-04              | 0.000E+00              |
| 430<br>431 | 0.000E+00<br>0.000E+00 | 2.403E-03              | 2.739E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 4.044E-04              | 0.000E+00              |
| 432        | 0.000E+00              | 3.363E-03<br>2.586E-03 | 2.232E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 3.303E-04              | 0.000E+00              |
| 433        | 0.000E+00              | 2.335E-03              | 2.114E-03<br>1.984E-03 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 3.128E-04              | 0.000E+00              |
| 434        | 0.000E+00              | 4.308E-03              | 1.383E-03              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 2.935E-04              | 0.000E+00              |
| 435        | 0.000E+00              | 3.413E-03              | 1.153E-03              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 2.048E-04<br>1.717E-04 | 0.000E+00              |
| 436        | 0.000E+00              | 2.718E-03              | 9.749E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.460E-04              | 0.000E+00<br>0.000E+00 |
| 437        | 0.000E+00              | 4.395E-03              | 9.313E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.379E-04              | 0.000E+00              |
| 438        | 0.000E+00              | 3.550E-03              | 7.953E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.182E-04              | 0.000E+00              |
| 439<br>440 | 0.000E+00<br>0.000E+00 | 3.137E-03              | 6.464E-04              | 0.00+3000.0            | 0.000E+00              | 0.000E+00              | 9.646E-05              | 0.000E+00              |
| 441        | 0.000E+00              | 4.117E-03<br>3.691E-03 | 8.338E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.234E-04              | 0.000E+00              |
| 442        | 0.000E+00              | 3.093E-03              | 9.570E-04<br>9.422E-04 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.415E-04              | 0.000E+00              |
| 443        | 0.000E+00              | 4.181E-03              | 7.883E-04              | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 1.394E-04              | 0.000E+00              |
| 444        | 0.000E+00              | 3.538E-03              | 7.651E-04              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.166E-04<br>1.131E-04 | 0.000E+00              |
| 445        | 0.000E+00              | 3.176E-03              | 6.516E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 9.664E-05              | 0.000E+00<br>0.000E+00 |
| 446        | 0.000E+00              | 3.983E-03              | 6.781E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.012E-04              | 0.000E+00              |
| 447        | 0.000E+00              | 3.489E-03              | 7.011E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.039E-04              | 0.000E+00              |
| 448<br>449 | 0.000E+00              | 3.135E-03              | 6.501E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 9.635E-05              | 0.000E+00              |
| 450        | 0.000E+00<br>0.000E+00 | 3.881E-03              | 8.548E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.272E-04              | 0.000E+00              |
| 451        | 0.000E+00              | 3.456E-03<br>3.167E-03 | 7.192E-04<br>5.963E-04 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.068E-04              | 0.000E+00              |
|            |                        | 0.20/2-03              | J. 703E-U4             | 0.000E+00              | 0.000E+0C              | 0.000E+00              | 8.865E-05              | 0.000E+00              |
|            |                        |                        |                        |                        |                        |                        |                        |                        |

RECEPTOR # 34 HAS MAXIMUM ACUTE HAZARD INDEX OF 1.372E-02

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, TSP \* OUTPUT OF AMI/SECAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\gqtspace.dat Output File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 137

<sup>\*\*\*</sup> ACUTE HAZARD INDEX BY FOLLUTANT FOR PEAK RECEPTOR # 34 \*\*\*

| POLLUTANT                                             | CONC (25/23)                                                                            | BACKGR<br>(ug/m3)                                                                       | AEL<br>(ug/m3)                                                                                       | C4                                                                                      | CHS                                                                                     | II-21UN                                                                                 | KIDN                                                                                    | LIVER                                                                                   | REPRO                                                                      | RESP                                                                                    | EYE                                                                                     |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| ACROL<br>Cu<br>ECEO<br>ECN<br>Eg<br>H1<br>Se<br>XYLEN | 0.000E+00<br>4.593E-03<br>0.000E+00<br>4.528E+01<br>0.000E+00<br>3.115E-03<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 2.500E+00<br>1.000E+01<br>3.700E+02<br>3.300E+03<br>3.000E+01<br>1.000E+00<br>2.000E+00<br>4.400E+03 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>1.372E-02<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>3.115E-03<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>4.593E-04<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 |
|                                                       |                                                                                         |                                                                                         | SUM -                                                                                                | 0.000E+00                                                                               | 1.372E-02                                                                               | 3.1152-03                                                                               | 0.000E+00                                                                               | 0.000E+00                                                                               | 0.000E+00                                                                  | 4.593E-04                                                                               | 0.0002+00                                                                               |

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET. ISP \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\gqtspace.dat Output File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 138

# \*\*\* ACUTE HAZARD INDEX BY SOURCE FOR PEAK RECEPTOR # 34 \*\*\*

|          | POLLUTANT | ACROL AFL              | (ug/m3) =              | 2.500E+00              | BACKGR.                | (ug/m3) =                                        | 0.000E+00              |                        |                        |
|----------|-----------|------------------------|------------------------|------------------------|------------------------|--------------------------------------------------|------------------------|------------------------|------------------------|
|          |           | CA                     | CSIS                   | II- <b>T</b> AIN       | KIDN                   | LIVER                                            | REFRO                  | RESP                   | EYE                    |
| SOURCE # | 1 2       | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00                           | 0.000Z+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |
| SOURCE # | 3         | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # | 5         | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 0.000Z+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # | 6         | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000 <del>2+</del> 00<br>0.000 <del>2+</del> 00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.0002+00              |
| SOURCE # | 7         | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 |
| SOURCE # | 8         | 0.0002+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # | 9<br>10   | 0.000E+00<br>0.000E+00 | 0.000E+00              | G.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # | 11        | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # | 12        | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00                           | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              |
| SOURCE # | 13        | 0.0002+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |
| SOURCE # | 14        | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # | 15<br>16  | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00                           | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # | 25        | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00                           | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00                           | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00                           | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00                           | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              |
| SOURCE # | 46        | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |
|          | SUM =     | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 0.000E+00              | 0.000E+00              |
|          |           |                        |                        |                        |                        |                                                  |                        |                        |                        |
|          | POLLUTANT | Cu AEI                 | (ug/m3) =              | 1.000E+01              | BACKGR.                | (ug/m3) =                                        | 0.000E+00              |                        |                        |
|          |           | c7                     | CNS                    | IP-MIN                 | KIDN                   | LIVER                                            | REPRO                  | RESP                   | EXE                    |
| SOURCE # | 1         | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0 0005+00              | A 400E-C0                                        | 4 444714               |                        |                        |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00                           | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 2.613E-09<br>2.603E-07 | 0.000E+00<br>0.000E+00 |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 2.647E-07              | 0.000E+00              |
| SOURCE 4 |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 1.107E-07              | 0.000E+00              |
| SOURCE # |           | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.0002+00              | 1.705E-07              | 0.000E+00              |
| SOURCE   |           | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00                           | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # | و د       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00<br>0.000E+00 | 4.229E-06<br>3.382E-07 | 0.000E+00<br>0.000E+00 |
| SOURCE # |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 1.844E-04              | 0.000E+00              |
| SOURCE 4 |           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 1.034E-04              | 0.000E+00              |
| SOURCE 4 | 12        | 0.000E+00              | 0.000E+00              | 0.0002+00              | 0.000E+00              | 0.000E+00                                        | 0.000E+00              | 1.425E-04              | 0.000E+00              |

| SOURCE #             | 13             | 0.000E+00                           | 0.000E+00                           | 0,000E+00                           | 0.000E+00                           | 0.000E+G0                           | 0.000E+00                           | 0.000E+00                           | A AAAM                              |
|----------------------|----------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| SOURCE #<br>SOURCE # | 14<br>15       | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 2.253E-08<br>2.245E-06              | 0.000E+00<br>0.000E+00<br>0.000E+00 |
| SOURCE #             | 16<br>17<br>18 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 2.286E-06<br>9.562E-07              | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 19<br>20       | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 1.472E-06<br>0.000E+00<br>2.025E-09 | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 21<br>22       | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 2.667E-06<br>2.707E-06              | 0.000E+00<br>0.000E+00<br>0.000E+00 |
| SOURCE # SOURCE #    | 23<br>24<br>25 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 1.088E-06<br>1.796E-06              | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 26<br>27       | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>3.566E-10              | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 28<br>29       | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 1.032E-07<br>1.011E-06<br>1.468E-06 | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 30<br>31       | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>6.783E-10              | 0.000E+00<br>0.000E+00<br>0.000E+00 |
| SOURCE #<br>SOURCE # | 32<br>33<br>34 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 1.962E-07<br>1.922E-06              | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 35<br>36       | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 2.792E-06<br>0.000E+00              | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 37<br>38       | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00 | 1.140E-10<br>3.299E-08<br>3.231E-07 | 0.000E+00<br>0.000E+00<br>0.000E+00 |
| Source #<br>Source # | 39<br>40<br>41 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 4.692E-07<br>0.000E+00              | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 42<br>43       | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 44<br>45       | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 46             | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              |
| . •                  | SUM =          | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 4.593E-04                           | 0.000E+00                           |
|                      | POLLUTANT      | ECHO AEL                            | (ug/m3) =                           | 3.700E+02                           | BACKGR.                             | (ug/m3) =                           | 0.000E+00                           |                                     |                                     |
| Source #             | •              | CV                                  | CXS                                 | IMMUN                               | KIDN                                | LIVER                               | REPRO                               | RESP                                | EYE                                 |
| SOURCE #             | 1<br>2<br>3    | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 4<br>5         | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 6<br>7         | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00 |
| SOURCE # SOURCE #    | 8<br>9<br>10   | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 11<br>12       | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 13<br>14       | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 |
| SOURCE # SOURCE #    | 15<br>16       | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 17<br>18<br>19 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 20<br>21       | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 22<br>23       | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 24<br>25       | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00 |
| SOURCE #<br>SOURCE # | 26<br>27<br>28 | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 29<br>30       | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 31<br>32       | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 33<br>34       | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00 |
| SOURCE #<br>SOURCE # | 35<br>36<br>37 | 0.000E+00<br>0.000E+00              |
| SOURCE # SOURCE #    | 37<br>38<br>39 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00                           | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 40<br>41       | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 42<br>43       | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00 |
| SOURCE #             | 44<br>45       | 0.000E+00<br>0.000E+00              |
| SOURCE #             | 46<br>SUM =    | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           |
|                      | POLLUTANT      |                                     |                                     |                                     |                                     |                                     | 0.000E+00                           | 0.000E+00                           | 0.000E+00                           |
|                      |                |                                     | (ug/m3) =                           | 3.300E+03                           |                                     | (ug/m3) =                           | 0.000E+00                           |                                     |                                     |
|                      |                | CA                                  | CNS                                 | IP40N                               | KIDN                                | LIVER                               | REPRO                               | RESP                                | EXE                                 |

| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                                                                                                                                                                                                                             | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2<br>3                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                                                                                                                                                                                                                             | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6                                                                                                                                                                                                                             | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Source #<br>Source #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7<br>8                                                                                                                                                                                                                        | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ğ                                                                                                                                                                                                                             | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Source #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11<br>12                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 13                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 14                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Source #<br>Source #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 15                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 16<br>17                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 18                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 19                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Source #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20<br>21                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 22                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 23                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Source #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 24<br>25                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 25                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 27                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Source #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 28<br>29                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 30                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 31                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Source #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 32                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 33<br>34                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 35                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 37<br>38                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 39                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 40                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 41<br>42                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.047E-02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 43                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.248E-03<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 44                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 45                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 46                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SUM =                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.372E-02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | POLLUTANT E                                                                                                                                                                                                                   | ir ael                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (us/m3) =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3.000E+01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BACKGR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | POLLUTANT E                                                                                                                                                                                                                   | ig ael                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (ug/m3) =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3.000E+01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BACKGR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (ug/m3) =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | POLLUTANT E                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | *****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (ug/m3) =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | POLLUTANT E                                                                                                                                                                                                                   | ig AEI.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (ug/m3) =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3.000E+01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BACKGR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RESP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EYE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Source #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                                                                                                                                                                                                                             | CV<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CNS<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IMMUN<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | KIDN<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (ug/m3) =<br>LIVER<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | REPRO<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RESP<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EYE<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Source #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 2                                                                                                                                                                                                                           | CV<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CNS<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IMMUN<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | KIDN<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (ug/m3) =<br>LIVER<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | REFRO<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RESP<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | EYE<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| SOURCE # SOURCE # SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 2 3 4                                                                                                                                                                                                                       | CV<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CNS<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IMMUN<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | KIDN<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (ug/m3) =<br>LIVER<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | REPRO<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RESP<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EYE<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| SOURCE # SOURCE # SOURCE # SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1<br>2<br>3<br>4<br>5                                                                                                                                                                                                         | CV<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CNS<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IP#UN 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | KIDN<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (ug/m3) =<br>LIVER<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | REPRO<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RESP<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                             | EYE<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SOURCE # SOURCE # SOURCE # SOURCE # SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1<br>2<br>3<br>4<br>5                                                                                                                                                                                                         | CV<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CNS<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | INMUN<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | KIDN<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LIVER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | REPRO<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RESP<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                | EYE<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1<br>2<br>3<br>4<br>5                                                                                                                                                                                                         | CV<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CNS<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | INMUN<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                     | KIDN<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                        | (ug/m3) =  LIVER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | REPRO<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RESP<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                   | EYE<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 123456789                                                                                                                                                                                                                     | CV 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CNS 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                    | XIDM<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                              | LIVER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | REFRO 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RESP 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                           | EYE 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9                                                                                                                                                                                     | CV 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.00E+00 0.00E+00 0.00E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CNS 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                       | XIDN<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                              | LIVER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | REPRO<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                  | RESP 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                 | EYE 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                  |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10                                                                                                                                                                               | CV 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CNS 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                       | XIDN 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                  | (ug/m3) =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | REPRO<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                        | RESP<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                         | EYE 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                  |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13                                                                                                                                                             | CV  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CNS 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                             | XIDN 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                        | (ug/m3) =  LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                               | REPRO<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                  | RESP 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                 | EYE 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                        |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13                                                                                                                                                             | CV  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CNS 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                              | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                | XIDN 0.000E+00                                                                                                                                                                                                                                                                                                                                                                          | (ug/m3) =  LIVER 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                      | REPRO 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                            | RESP 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                             | EYE 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                    |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15                                                                                                                                                 | CV  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CNS 0.000E+00                                                                                                                                                                                                                                                                                                                                                                          | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                | XIDM<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                   | LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                        | REPRO 0.000E+00                                                                                                                                                                                                                                                                                                                                                                | RESP 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                   | EYE  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                   |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17                                                                                                                                     | CV  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CNS 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                              | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                | XIDN 0.000E+00                                                                                                                                                                                                                                                                                                                                                                          | (ug/m3) =  LIVER 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                      | REPRO 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                            | RESP 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                             | EYE  0.000E+00                                                                                                                                                                                                                                                                                                                                                                         |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                                                                                                                               | CV  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CNS 0.000E+00                                                                                                                                                                                                                                                                                                                                  | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                            | XIDN  0.000E+00                                                                                                                                                                                                                                                                                                                                           | (ug/m3) =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | REPRO 0.000E+00                                                                                                                                                                                                                                                                                                    | RESP 0.000E+00                                                                                                                                                                                                                                                                                                                                                               | EYE 0.000E+00                                                                                                                                                                                                                                                                                                                                  |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>112<br>13<br>145<br>117<br>118<br>119                                                                                                                                      | CV  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CNS 0.000E+00                                                                                                                                                                                                                                                                                                                                  | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                               | XIDM 0.000E+00                                                                                                                                                                                                                                                                                                                                            | LIVER  0.000E+00                                                                                                                                                                                                                                                                                                    | REPRO 0.000E+00                                                                                                                                                                                                                                                                                                              | RESP 0.000E+00                                                                                                                                                                                                                                                                                                                                                               | EYE  0.000E+00                                                                                                                                                                                                                                                                                                                                           |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>2<br>13<br>14<br>15<br>16<br>17<br>18<br>18<br>12<br>20                                                                                                              | CV  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CNS 0.000E+00                                                                                                                                                                                                                                                                                                              | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                            | XIDM 0.000E+00                                                                                                                                                                                                                                                                                                                                  | LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                  | REPRO 0.000E+00                                                                                                                                                                                                                                                                                                    | RESP 0.000E+00                                                                                                                                                                                                                                                                                                                                 | EYE 0.000E+00                                                                                                                                                                                                                                                                                                                                  |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>112<br>13<br>14<br>15<br>17<br>18<br>19<br>20<br>12<br>22<br>22<br>22                                                                                                      | CV  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CNS 0.000E+00                                                                                                                                                                                                                                        | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                              | XIDM 0.000E+00                                                                                                                                                                                                                                                                                          | LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                      | REPRO  0.000E+00                                                                                                                                                                                                                             | RESP 0.000E+00                                                                                                                                                                                                                                                                                                                                 | EYE  0.000E+00                                                                                                                                                                                                                                                                                                             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>112<br>13<br>14<br>15<br>17<br>18<br>19<br>20<br>12<br>22<br>22<br>22                                                                                                      | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CNS 0.000E+00                                                                                                                                                                                                                                                                                                              | 0.000E+00                                                                                                                                                                                                                                                                                         | XIDM 0.000E+00                                                                                                                                                                                                                                                                                | (ug/m3) =  LIVER  0.000E+00                                                                                                                                                                                                                                                           | REPRO 0.000E+00                                                                                                                                                                                                                              | RESP 0.000E+00                                                                                                                                                                                                                                                                                                             | EYE  0.000E+00                                                                                                                                                                                                                                                                                                             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>112<br>13<br>145<br>117<br>118<br>119<br>117<br>118<br>119<br>112<br>112<br>113<br>114<br>117<br>117<br>118<br>119<br>119<br>119<br>119<br>119<br>119<br>119<br>119<br>119 | CV  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CNS 0.000E+00                                                                                                                                                                                                                                                                                          | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                              | XIDM 0.000E+00                                                                                                                                                                                                                                                                                          | LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                      | REPRO 0.000E+00                                                                                                                                                                                                                                        | RESP 0.000E+00                                                                                                                                                                                                                                                                                                             | EYE  0.000E+00                                                                                                                                                                                                                                                                     |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>112<br>13<br>145<br>117<br>118<br>119<br>117<br>118<br>119<br>112<br>112<br>113<br>114<br>117<br>118<br>119<br>119<br>119<br>119<br>119<br>119<br>119<br>119<br>119        | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                       | CNS 0.000E+00                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                   | XIDM 0.000E+00                                                                                                                                              | (ug/m3) =  LIVER  0.000E+00                                                                                                                                                                                                                                       | REPRO 0.000E+00                                                                                                                                                                  | RESP 0.000E+00                                                                                                                                                                                                                                       | EYE  0.000E+00                                                                                                                                                                                                                                                           |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>25<br>27                                                                         | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                  | CNS 0.000E+00                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                         | XIDN  0.000E+00                                                                                                                                                                                               | (ug/m3) =  LIVER  0.000E+00                                                                                                                                                                                                                                       | REPRO 0.000E+00                                                                                                                                                                                                | RESP 0.000E+00                                                                                                                                                                                                         | EYE  0.000E+00                                                                                                                                                                           |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 123456789101123456789101223456789                                                                                                                                                                                             | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                       | CNS 0.000E+00                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                   | XIDM 0.000E+00                                                                                                                                              | (ug/m3) =  LIVER  0.000E+00                                                                                                                                                                                                                                       | REFRO  0.000E+00                                                                                                     | RESP 0.000E+00                                                                                                                                                                                     | EYE  0.000E+00                                                                                                                                             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>112<br>13<br>14<br>115<br>117<br>118<br>119<br>119<br>119<br>119<br>119<br>119<br>119<br>119<br>119                                                                        | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                       | CNS 0.000E+00                                                                                                                                    | 0.000E+00                                                                                                                                                                 | XIDM  0.000E+00                                                                                                                                                       | (ug/m3) =  LIVER  0.000E+00                                                                                                                                                                                                                   | REPRO  0.000E+00                                                                                           | RESP 0.000E+00                                                                                                                                             | EYE  0.000E+00                                                                                                                                                                           |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1234567890112345678901223456789031                                                                                                                                                                                            | CV  0.000E+00                                                                                                                                                                                                                                                                                                            | CNS  0.000E+00                                                                                           | DATUN  0.000E+00                                                                | XIDM  0.000E+00                                                                                                                                             | LIVER  0.000E+00                                                                                                                                              | REFRO  0.000E+00                                         | RESP 0.000E+00                                                                                                                                                                                               | EYE  0.000E+00                                                                                                                         |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>112<br>13<br>14<br>115<br>117<br>118<br>119<br>119<br>119<br>119<br>119<br>119<br>119<br>119<br>119                                                                        | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                      | CNS  0.000E+00                                                                                                     | 0.000E+00                                                                                                                                                       | XIDM  0.000E+00                                                                                                                                   | (ug/m3) =  LIVER  0.000E+00                                                                                                                                   | REPRO  0.000E+00                                                                                                     | RESP 0.000E+00                                                                                                                                             | EYE  0.000E+00                                                                                                                         |
| SOURCE # SOU | 12345678901123456789011234567890312334                                                                                                                                                                                        | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                         | CNS  0.000E+00                     | DAMUN  0.000E+00                                  | XIDM  0.000E+00                                                                                 | LIVER  0.000E+00                                                                                                                                              | REFRO  0.000E+00                                         | RESP 0.000E+00                                                                                                                                                                                               | EYE  0.000E+00                                                                                                                         |
| SOURCE # SOU | 12345678910112345678901123456789033123345                                                                                                                                                                                     | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                               | CNS  0.000E+00           | 0.000E+00                                                                                           | XIDN  0.000E+00                     | (ug/m3) =  LIVER  0.000E+00                                                                                                                                   | REPRO  0.000E+00                                                                                 | RESP 0.000E+00                                                                       | EYE  0.000E+00                                                                                                                         |
| SOURCE # SOU | 1234567891011234567891011234567890123456789333333333333333333333333333333333333                                                                                                                                               | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                           | CNS  0.000E+00           | 0.000E+00                                                                                 | XIDM  0.000E+00                                                   | (ug/m3) =  LIVER  0.000E+00                                                                                                                                   | REPRO  0.000E+00                                                                                           | RESP 0.000E+00                                                                       | EYE  0.000E+00                                                                                                     |
| SOURCE # # # # # # # # # # # # # # # # # # #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 123456789011234567890123456789033456738                                                                                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                               | CNS  0.000E+00           | 0.000E+00                                                                                           | XIDN  0.000E+00                     | (ug/m3) =  LIVER  0.000E+00                                                                                                                                   | REPRO  0.000E+00                                                                                 | RESP 0.000E+00                                                                       | EYE  0.000E+00                                                                                                                         |
| SOURCE # SOU | 123456789011234567890112345678901234567890133333366789                                                                                                                                                                        | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                           | CNS  0.000E+00 | 0.000E+00                     | XIDM  0.000E+00 | (ug/m3) =  LIVER  0.000E+00 | REPRO  0.000E+00                                         | RESP 0.000E+00                                                   | EYE  0.000E+00                                                   |
| SOURCE # SOU | 123456789101123456789112345678901233456789333333333333333333333333333333333333                                                                                                                                                | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | CNS  0.000E+00 | 0.000E+00 | XIDM  0.000E+00 | (ug/m3) =  LIVER  0.000E+00                                                                       | REPRO  0.000E+00 | RESP 0.000E+00 | EYE  0.000E+00 |
| SOURCE # SOU | 123456789011234567890112345678901234567890133333366789                                                                                                                                                                        | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                           | CNS  0.000E+00 | 0.000E+00                     | XIDM  0.000E+00 | (ug/m3) =  LIVER  0.000E+00 | REPRO  0.000E+00                                         | RESP 0.000E+00                                                   | EYE  0.000E+00                                                   |

| OURCE # OURCE # OURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 43<br>44<br>45<br>46                   | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                    | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                          | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SUM -                                  | 0.0002+00                                                                                                                                                                           | 0.000E+00                                                     | 0.000E+00                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                           | 0.000E+00                                                     | 0.000E+00                                                                                                                                                                                                                              | 0.000E+00                                                                                                                                                                                                                                                                                  | 0.000E+00                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | POLLUTANT N                            |                                                                                                                                                                                     | (ug/m3) =                                                     | 1.000E+00                                                                                                                                                                                                                 | BACKGR.                                                                                                                                                                                                                                             | (ug/m3) =                                                     | 0.000E+00                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        | CV                                                                                                                                                                                  | CXS                                                           | II-MUN                                                                                                                                                                                                                    | KIDN                                                                                                                                                                                                                                                | LIVER                                                         | REPRO                                                                                                                                                                                                                                  | RESP                                                                                                                                                                                                                                                                                       | EYE                                                                                                                                                                                                                                                                                        |
| SOURCE # SOURCE # SOURCE # SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1<br>2<br>3<br>4<br>5                  | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                    | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00              | 0.000E+00<br>9.500E-09<br>9.464E-07<br>9.626E-07<br>4.027E-07                                                                                                                                                             | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                           |
| SOURCE # SOURCE # SOURCE # SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6<br>7<br>8<br>9                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                    | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00              | 6.201E-07<br>0.000E+00<br>2.919E-05<br>2.335E-06<br>1.273E-03                                                                                                                                                             | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                              |
| SOURCE # SOURCE # SOURCE # SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11<br>12<br>13                         | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00              | 7.139E-04<br>9.836E-04<br>0.000E+00<br>1.556E-07<br>1.549E-05                                                                                                                                                             | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                           |
| SOURCE # SOURCE # SOURCE # SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 16<br>17<br>18                         | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                    | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00              | 1.578E-05<br>6.601E-06<br>1.016E-05<br>0.000E+00<br>6.444E-09                                                                                                                                                             | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                              |
| SOURCE #<br>SOURCE #<br>SOURCE #<br>SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 22<br>23<br>24<br>25                   | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 8.484E-06<br>8.613E-06<br>3.460E-06<br>5.713E-06<br>0.000E+00                                                                                                                                                             | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                              |
| SOURCE SOURCE SOURCE SOURCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 27<br>28<br>29<br>30                   | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                    | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00              | 2.461E-09<br>7.120E-07<br>6.975E-06<br>1.013E-05<br>0.000E+00                                                                                                                                                             | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                           |
| SOURCE SOURCE SOURCE SOURCE SOURCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 32<br>33<br>34<br>35                   | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                    | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00              | 2.158E-09<br>6.245E-07<br>6.117E-06<br>8.883E-06<br>0.000E+00                                                                                                                                                             | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                          | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                              | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                              |
| SOURCE SOURCE SOURCE SOURCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 37<br>38<br>39<br>40                   | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 3.628E-10<br>1.050E-07<br>1.028E-06<br>1.493E-06<br>0.000E+00                                                                                                                                                             | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                              |
| SOURCE :<br>SOURCE :<br>SOURCE :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 42<br>43                               | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                             | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                          | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SUM =                                  | 0.000E+00                                                                                                                                                                           | 0.000E+00                                                     | 3.115E-03                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                           | 0.000E+00                                                     | 0.000E+00                                                                                                                                                                                                                              | 0.000E+00                                                                                                                                                                                                                                                                                  | 0.000E+00                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | POLLUTANT                              | Se AE                                                                                                                                                                               | L (ug/m3) =                                                   | 2.000E+00                                                                                                                                                                                                                 | BACKGR                                                                                                                                                                                                                                              | (ug/m3) =                                                     | 0.000E+00                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        | CV                                                                                                                                                                                  | CNS                                                           | IMMUN                                                                                                                                                                                                                     | KIDN                                                                                                                                                                                                                                                | LIVER                                                         | REPRO                                                                                                                                                                                                                                  | RESP                                                                                                                                                                                                                                                                                       | EYE                                                                                                                                                                                                                                                                                        |
| SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SOURCE<br>SO | ###################################### | 0.000E+00 | 0.000E+00                                                     | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00                                        | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 |
| SOURCE<br>SOURCE<br>SOURCE<br>SOURCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | # 27<br># 28                           | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                    | 0.000E+00<br>0.000E+00                                        | 0.000E+00                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                              | 0.000E+00<br>0.000E+00                                        | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                        | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                        |

| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>SUM =                                                    | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                | CA                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CXS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | II-AUN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | KIDN                                                                                                                                                                                            | LIVER                                                                                                                                                                                           | REFRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RESP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EYE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SOURCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 16<br>17<br>18<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>25<br>25<br>26<br>27<br>28<br>29<br>31<br>32<br>33<br>34<br>34<br>35<br>36<br>37<br>37<br>39 | 0.00E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                         | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                     | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| SOURCE SO | 42<br>43<br>44                                                                                                                                                 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                      | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                | 0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00<br>0.00E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET, TS2 \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 147

SUM = 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

# \*\*\* MAXIMUM CERONIC EXPOSURE BY POLLUTANT FROM ALL SOURCES \*\*\*

|       | ************************************** |          |          |          |          |          |          |          |           |          |          |          |          |      |
|-------|----------------------------------------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|------|
| POL.  | INHALE                                 | DERMAL   |          | WATER    | PLANTS   |          |          | HON-INH  | ACCEPTABL |          | BACKGR   | AEI.     | HAZARD   | REC. |
|       |                                        |          |          |          |          |          |          | DOSE SUM | CRAL DOSE | (ug/m3)  | (ug/m3)  | (ug/m3)  | INDEX    |      |
| ACET/ | 0.00E+00                               | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |           |          |          | 9.00E+00 |          | 0    |
| ACROI | 0.00E+00                               | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00 | 2.00E-02 | 0.00E+00 | G    |
| A.s   | 3.45E-07                               | 1.66E-07 | 7.82E-06 | 0.00E+00 | 3.26E-06 | 0.00E+00 | 0.00E+00 | 1.12E-05 | 1.00E-03  | 1.21E-03 | 0.00E+00 | 5.00E-01 | 1.37E-02 | 68   |
| BENZ  | 0.00E+00                               |          |          |          |          |          |          |          |           | 0.00E+00 | 0.00E+00 | 7.10E+01 | 0.00E+00 | Q.   |
| Be    | 1.69E-08                               | 6.79E-09 | 3.21E-07 | 0.00E+00 | 1.25E-07 | 0.00E+00 | 0.00E+00 | 4.53E-07 | 5.00E-03  | 5.93E-05 | 0.00E+00 | 4.80E-03 | 1.24E-02 | 42   |
| Cd    |                                        |          | 2.84E-07 |          |          |          |          |          |           | 4.44E-05 | 0.00E+00 | 3.50E+00 | 6.14E-04 | 68   |
| Č:    |                                        |          | 4.70E-08 |          |          |          |          |          |           |          |          | 2.00E-03 |          | 69   |
| Co    |                                        |          |          |          |          |          |          |          | 0.00E+00  | 1.01E-04 | 0.00E+00 | 2.40E+00 | 4.23E-05 | 68   |

```
RCBO 0.00E+00 0.00E+0
```

GOLDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, TSP - OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 - Input File: g:\beest\GQ\gqtspace.OUT 11/14/96 07:44:58 Page - 148

# \*\*\* RECEPTOR CHRONIC HAZARD INDICES BY TOXICOLOGICAL ENDPOINTS \*\*\* FROM ALL SOURCES AND POLLUTANTS

| RECEPTOR                         | C7                                               | CNS                                 | IP24UN                 | KIDN                                | LIVER                                                                                                | REPRO                                                                                                                            | RESP                                             | SICIN                                            |
|----------------------------------|--------------------------------------------------|-------------------------------------|------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| 1 2                              | 1.104E-03                                        | 2.813E-03                           | 2.919E-04              | 5.507E-04                           | 2.221E-04                                                                                            | 2.834E-04                                                                                                                        | 1.373E-03                                        | 8.205E-04                                        |
| 2                                | 1.669E-03                                        | 3.498E-03                           | 4.373E-04              | 8.272E-04                           | 3.344E-04                                                                                            | 4.246E-04                                                                                                                        | 1.929E-03                                        | 1.244E-03                                        |
| 3                                | 1.657E-03                                        | 3.474E-03                           | 4.339E-04              | 8.211E-04                           | 3.321E-04                                                                                            | 4.213E-04                                                                                                                        | 1.907E-03                                        | 1.236E-03                                        |
| 4<br>5                           | 2.145E-03                                        | 4.819E-03                           | 5.641E-04              | 1.066E-03                           | 4.304E-04                                                                                            | 5.477E-04                                                                                                                        | 2.554E-03                                        | 1.597E-03                                        |
| 5                                | 2.165E-03<br>1.966E-03                           | 4.797E-03<br>4.345E-03              | 5.695E-04<br>5.181E-04 | 1.076E-03                           | 4.344E-04                                                                                            | 3.529E-04                                                                                                                        | 2.580E-03                                        | 1.611E-03                                        |
| 6<br>7                           | 1.739E-03                                        | 3.455E-03                           | 4.568E-04              | 9./802-04                           | 3.7465-04                                                                                            | 5.030E-04                                                                                                                        | 2.370E-03                                        | 1.462E-03                                        |
| Š                                | 1.748E-03                                        | 3.469E-03                           | 4.626E-04              | 9.780E-04<br>8.639E-04<br>8.724E-04 | 3.4745-04                                                                                            | 4.4345-04                                                                                                                        | 2.076E-03<br>2.206E-03                           | 1.295E-03                                        |
| 9                                | 1.815E-03                                        | 3.597E-03                           | 4.824E-04              | 9.082E-04                           | 3.5105-04                                                                                            | 4 48AF-04                                                                                                                        | 2.350E-03                                        | 1.298E-03                                        |
| 10                               | 2.295E-03                                        | 7.814E-03                           | 6.023E-04              | 1.141E-03<br>4.685E-04              | 4.619E-04                                                                                            | 5.847E-04                                                                                                                        | 2.762E-03                                        | 1.346E-03<br>1.710E-03                           |
| 11                               | 9.407E-04                                        | 2.218E-03                           | 2.484E-04              | 4.685E-04                           | 1.8892-04                                                                                            | 2.412E-04                                                                                                                        | 2.762E-03<br>1.152E-03                           | 6.992E-04                                        |
| 12<br>13                         | 4.083E-03                                        | 1.200E-02                           | 1.087E-03              | 2.042E-03                           | 8.197E-04                                                                                            | 1.055E-03                                                                                                                        | 5.192E-03                                        | 3,027 <b>2-</b> 03                               |
| 1.5<br>1.6                       | 1.756E-03<br>1.771E-03<br>1.724E-03              | 7.824E-03                           | 4.785E-04              | 8.922E-04                           | 4.344E-04<br>3.946E-04<br>3.494E-04<br>3.518E-04<br>3.657E-04<br>4.619E-04<br>8.197E-04<br>3.558E-04 | 5.030E-04<br>4.434E-04<br>4.492E-04<br>4.684E-04<br>5.847E-04<br>1.055E-03<br>4.549E-04<br>4.5687E-04<br>4.5637E-04<br>2.675E-04 | 5.192E-03<br>2.652E-03<br>2.675E-03<br>2.615E-03 | 1.291E-03                                        |
| 14<br>15                         | 1.7715-03                                        | 8.030E-03<br>7.672E-03              | 4.825E-04<br>4.697E-04 | 8.996E-04<br>8.762E-04              | 3.588E-04<br>3.497E-04                                                                               | 4.687E-04                                                                                                                        | 2.675E-03                                        | 1.301E-03                                        |
| 16                               | 1.9612-03                                        | 1.000E-02                           | 5 339F-04              | 9.960E-04                           | 3.975E-04                                                                                            | 4.363E-04                                                                                                                        | 2.515E-03                                        | 1.267E-03                                        |
| 17                               | 1.961E-03<br>1.040E-03                           | 2.366E-03                           | 5.339E-04<br>2.755E-04 | 5.189E-04                           | 2.089E-04                                                                                            | 2 4758-04                                                                                                                        | 2.953E-03<br>1.294E-03                           | 1.4425-03                                        |
| 18                               | 1.566Z-03                                        | 2.366E-03<br>4.346E-03              | 4.186E-04              | 5.189E-04<br>7.855E-04              | 3.151E-04                                                                                            | 4.066E-04                                                                                                                        | 2.060E-03                                        | 1.442E-03<br>7.724E-04<br>1.159E-03              |
| 19                               | 1.550E-03                                        | 4.980E-03                           | 4.180E-04              | 7.830E-04                           | 3.151E-04<br>3.138E-04                                                                               | 4.059E-04                                                                                                                        | 2.216E-03                                        | 1.144E-03<br>1.608E-03<br>1.163E-03              |
| 20                               | 2.181E-03                                        | 8.250E-03                           | 5.891E-04<br>4.270E-04 | 1.101E-03                           | 4.395E-04                                                                                            | 5.723E-04                                                                                                                        | 3.053E-03                                        | 1.608E-03                                        |
| 21                               | 1.578E-03                                        | 1.527E-02                           | 4.270E-04              | 8.033E-04                           | 3.239E-04                                                                                            | 4.146E-04                                                                                                                        | 2.499E-03                                        | 1.163E-03                                        |
| 20<br>21<br>22<br>23<br>24       | 1.467E-03<br>1.46ZE-03                           | 1.451E-02<br>1.434E-02              | 4.001E-04<br>3.996E-04 | 7.518E-04                           | 3.030E-04                                                                                            | 3.885E-04                                                                                                                        | 2.499E-03<br>2.479E-03<br>2.512E-03              | 1.078E-03                                        |
| 24                               | 1.454E-03                                        | 1.438E-02                           | 3.973E-04              | 7.505E-04<br>7.456E-04              | 3.024E-04                                                                                            | 3.879E-04                                                                                                                        | 2.512E-03                                        | 1.074E-03                                        |
| 25                               | 1.467E-03                                        | 1.545E-02                           | 4.000E-04              | 7.505E-04                           | 3.001E-04<br>3.019E-04<br>3.169E-04                                                                  | 3.858E-04<br>3.885E-04                                                                                                           | 2.471E-03<br>2.430E-03                           | 1.068E-03<br>1.078E-03<br>1.155E-03<br>1.188E-03 |
| 26                               | 1.563E-03                                        | 1.545E-02<br>1.781E-02              | 4.206E-04              | 7.894E-04                           | 3.169E-04                                                                                            | 4.085E-04                                                                                                                        | 2.234E-03                                        | 1.0705-03                                        |
| 27                               | 1.6 <b>03E-</b> 03                               | 1.125E-02                           | 4.274E-04              | 8.045E-04                           | 3.239E-04                                                                                            | 4.150E-04                                                                                                                        | 2.146E-03                                        | 1.188E-03                                        |
| 28                               | 1.713E-03                                        | 9.697E-03                           | 4.554E-04              | 8.580E-04                           | 3.458E-04<br>4.382E-04<br>4.644E-04                                                                  | 4.422E-04                                                                                                                        | 2.253E-03                                        | 1.270E-03                                        |
| 29<br>30                         | 2.173E-03                                        | 9.119E-03                           | 5.822E-04              | 1.092E-03                           | 4.382E-04                                                                                            | 4.422E-04<br>5.654E-04                                                                                                           | 2.949E-03                                        | 1.607E-03                                        |
| 30                               | 2.302E-03<br>2.409E-03                           | 9.162E-03<br>9.707E-03              | 6.196E-04              | 1.160E-03                           | 4.644E-04                                                                                            | 6.018E-04                                                                                                                        | 3.188E-03                                        | 1.700E-03                                        |
| 32                               | 2.415E-03                                        | 1.116E-02                           | 6.509E-04<br>6.545E-04 | 1.216E-03<br>1.222E-03              | 4.859E-04                                                                                            | 6.323E-04                                                                                                                        | 3.403E-03                                        | 1.776E-03                                        |
| 33                               | 2.674E-03                                        | 3.329E-02                           | 7.284E-04              | 1.357E-03                           | 4.878E-04<br>5.404E-04                                                                               | 6.359E-04<br>7.077E-04                                                                                                           | 3.500E-03                                        | 1.778E-03                                        |
| 34                               | 2.674E-03<br>2.953E-03                           | 3.558E-02                           | 8.057E-04              | 1.500E-03                           | 5.974E-04                                                                                            | 7.828E-04                                                                                                                        | 3.966E-03                                        | 1.965E-03                                        |
| 35                               | 3.149E-03                                        | 3.549E-02                           | 8.605E-04              | 1.601E-03                           | 6.368E-04                                                                                            | 8.361E-04                                                                                                                        | 4.444E-03<br>4.757E-03                           | 2.169E-03<br>2.312E-03                           |
| 36                               | 3.289E-03                                        | 3.417E-02<br>3.178E-02              | 8.984E-04              | 1.670E-03                           | 6.633E-04                                                                                            | 8.730E-04                                                                                                                        | 4.864E-03                                        | 2.416E-03                                        |
| 37                               | 3.303E-03                                        | 3.178E-02                           | 9.006E-04              | 1.674E-03                           | 6.646E-04                                                                                            | 8.751E-04                                                                                                                        | 4 790F-03                                        | 2.427E-03                                        |
| 38<br>39                         | 3.211E-03<br>3.916E-03                           | 1.846E-02                           | 8.709E-04              | 1.622E-03                           | 6.454E-04                                                                                            | 8.461E-04                                                                                                                        | 4.517E-03                                        | 2.364E-03<br>2.880E-03                           |
| 40                               | 4.960E-03                                        | 3.278E-02<br>4.089E-02              | 1.066E-03              | 1.982E-03                           | 7.881E-04                                                                                            | 1.035E-03                                                                                                                        | 4.517E-03<br>5.632E-03<br>7.275E-03              | 2.880E-03                                        |
| 41                               | 6.739E-03                                        | 3.892E-02                           | 1.354E-03<br>1.856E-03 | 2.516E-03<br>3.455E-03              | 9.988E-04<br>1.373E-03                                                                               | 1.316E-03<br>1.803E-03<br>2.735E-03                                                                                              | 7.275E-03                                        | 3.643E-03                                        |
| 42                               | 1.022E-02                                        | 3.193E-02                           | 2.816E-03              | 5.254E-03                           | 2.100E-03                                                                                            | 2 7358-03                                                                                                                        | 1.080E-02<br>1.753E-02                           | 4.934E-03<br>7.481E-03                           |
| 43                               | 8.699E-03                                        | 2.383E-02                           | 2.350E-03              | 4.422E-03                           | 1.783E-03                                                                                            | 2.282E-03                                                                                                                        | 1.356E-02                                        | 6.415E-03                                        |
| 44                               | 8.037E-03                                        | 1.805E-02                           | 2.077E-03              | 3.964E-03                           | 1.616E-03                                                                                            | 2.015E-03                                                                                                                        | 8.799E-03                                        | 6.020E-03                                        |
| 45                               | 7.786E-03                                        | 1.479E-02                           | 1 9672-03              | 3.786E-03                           | 1.556E-03                                                                                            | 1.908E-03                                                                                                                        | 7.053E-03                                        | 5.876E-03                                        |
| 46<br>47                         | 4.937E-03<br>7.203E-03                           | 9.930E-03<br>1.286E-02              | 1.261E-03<br>1.838E-03 | 2.415E-03                           | 9.885E-04                                                                                            | 1.223E-03                                                                                                                        | 4.855E-03                                        | 3.713E-03                                        |
| 48                               | 9.476E-03                                        | 1.586E-02                           | 1.838E-03<br>2.370E-03 | 3.545E-03                           | 1.464E-03                                                                                            | 1.78ZE-03                                                                                                                        | 8.041E-03                                        | 5.419E-03<br>7.175E-03                           |
| 49                               | 1.120E-02                                        | 1.806E-02                           | 2.796E-03              | 4.586E-03<br>5.417E-03              | 1.895E-03<br>2.241E-03                                                                               | 2.298E-03<br>2.711E-03                                                                                                           | 8.042E-03<br>9.477E-03                           | 7.175E-03                                        |
|                                  | 1.197E-02                                        | 1.878E-02                           | 2 998E-03              | 5.804E-03                           | 2.400E-03                                                                                            | 2.711E-03<br>2.907E-03                                                                                                           | 1.050E-02                                        | 8.481E-03<br>9.060E-03                           |
| 51                               | 6.310E-03                                        | 1.152E-02                           | 1.615E-03              | 3.105E-03                           | 1.275E-03                                                                                            | 1.566E-03                                                                                                                        | 6.777E-03                                        | 4.742E-03                                        |
| 50<br>51<br>52<br>53<br>54<br>55 | 4.194E-03                                        | 8.344E-03                           | 1.084E-03<br>7.922E-04 | 2.071E-03<br>1.507E-03              | 8.462E-04                                                                                            | 1.051E-03                                                                                                                        | 4.721E-03                                        | 3.141E-03                                        |
| 53                               | 3.047E-03                                        | 6.418E-03                           | 7.922E-04              | 1.507E-03                           | 6.132E-04                                                                                            | 7.688E-04                                                                                                                        | 3.476E-03                                        | 3.141E-03<br>2.278E-03                           |
| 34                               | 2.431E-03                                        | 5.260E-03                           | 6.499E-04              | 1.235E-03                           | 5.036E-04                                                                                            | 6.306E-04                                                                                                                        | 3.842E-03                                        | 1.800E-03                                        |
| 35<br>56                         | 2.635E-03<br>2.860E-03                           | 5.647E-03<br>6.017E-03              | 6.949E-04              | 1.322E-03                           | 5.379E-04                                                                                            | 6.744E-04                                                                                                                        | 3.559E-03                                        | 1.960E-03                                        |
| <b>5</b> 7                       | 3.039E-03                                        | 6.211E-03                           | 7.543E-04<br>7.932E-04 | 1.437E-03<br>1.506E-03              | 5.854E-04<br>6.111E-04                                                                               | 7.320E-04<br>7.699E-04                                                                                                           | 3.934E-03<br>3.536E-03                           | 2.127E-03<br>2.268E-03<br>2.838E-03<br>3.465E-03 |
| 58                               | 3.803E-03                                        | 7.457E-03                           | 9.942E-04              | 1.888E-03                           | 7.669E-04                                                                                            | 9.650E-04                                                                                                                        | 4.544E-03                                        | Z.258E-03                                        |
| 59                               | 4.679E-03                                        | 8.830E-03                           | 1.250E-03              | 2.374E-03                           | 9.673E-04                                                                                            | 1.213E-03                                                                                                                        | 7.303E-03                                        | 4.030E-U3                                        |
| 60                               | 5.597E-03                                        | 1.013E-02                           | 1.500E-03              | 2.842E-03                           | 1.155E-03                                                                                            | 1.455E-03                                                                                                                        | 8.786E-03                                        | 4.141E-03                                        |
| 61                               | 6.725E-03                                        | 1.158E-02                           | 1.801E-03              | 3.406E-03                           | 1_381E-03                                                                                            | 1.748E-03                                                                                                                        | 1.025E-02                                        | 4.976E-03                                        |
| 61<br>62<br>63                   | 7.910E-03                                        | 1.315E-02                           | 2.121E-03              | 4.006E-03                           | 1.622E-03                                                                                            | 2.059E-03                                                                                                                        | 1.201E-02                                        | 5.850E-03                                        |
| 64                               | 9.186E-03                                        | 1.493E-02<br>1.378E-02              | 2.479E-03              | 4.676E-03                           | 1.892E-03                                                                                            | 2.406E-03                                                                                                                        | 1.469E-02                                        | 6.777E-03                                        |
| 65                               | 8.458E-03<br>9.971E-03                           | 1 5845-02                           | 2.282E-03<br>2.668E-03 | 4.309E-03<br>5.040E-03              | 1.745E-03<br>2.041E-03                                                                               | 2.215E-03                                                                                                                        | 1.358E-02                                        | 6.241E-03                                        |
| 66                               | 9.971E-03<br>1.244E-02                           | 1.584E-02<br>1.907E-02              | 3.278E-03              | 6.228E-03                           | 2.535E-03                                                                                            | 2.589E-03<br>3.181E-03                                                                                                           | 1.482E-02<br>1.677E-02                           | 7.380E-03                                        |
| 67                               |                                                  | 2.490E-02                           | 4.377E-03              | 8.380E-03                           | 3.433E-03                                                                                            | 4.246Z-03                                                                                                                        | 1.927E-02                                        | 9.255E-03<br>1.273E-02                           |
| 68                               | 1.819E-02                                        | 2.688E-02                           | 4.665E-03              | 8.949E-03                           | 3.670E-03                                                                                            | 4.526E-03                                                                                                                        | 1.958E-02                                        | 1.366E-02                                        |
| 69                               | 1.8172-02                                        | 2.688E-02<br>2.746E-02<br>2.735E-02 | 4.663E-03              | 8.949E-03                           | 3.675E-03                                                                                            | 4.526E-03<br>4.523E-03                                                                                                           | 2.013E-02                                        | 1.364E-02                                        |
| 70<br>71                         | 1.819E-02<br>1.817E-02<br>1.773E-02<br>1.148E-02 | 2.735E-02                           | 4.547E-03              | 8.739E-03                           | 3.595E-03                                                                                            | 4.410E-03                                                                                                                        | 2.003E-02                                        | 1.331E-02                                        |
| 72                               | 1.148E-02<br>8.373E-03                           | 1.899E-02<br>1.441E-02              | 2.987E-03              | 5.709E-03                           | 2.336E-03                                                                                            | 2.898E-03                                                                                                                        | 1.434E-02                                        | 8.582E-03                                        |
| 14                               | 0.3/35-03                                        | 1.7715702                           | 2.204E-03              | 4.199E-03                           | 1.714E-03                                                                                            | 2.139E-03                                                                                                                        | 1.159E-02                                        | 6.232E-03                                        |

| 30             | / 000T 00                               | 1 10/2 00 |            | 0 1000 00          | * 0007 00              | 4 (057).00 | 7.912E-03 | A 769E-03 |
|----------------|-----------------------------------------|-----------|------------|--------------------|------------------------|------------|-----------|-----------|
| 73             | 6.389E-03                               | 1.134E-02 | 1.675E-03  | 3.182E-03          | 1.293E-03              | 1.625E-03  |           | 4.762E-03 |
| 74             | 5.260E-03                               | 9.524E-03 | 1.406E-03  | 2.668E-03          | 1.086E-03              | 1.365E-03  | 8.225E-03 | 3.894E-03 |
| 75             | 4.880E-03                               | 9.137E-03 | 1.286E-03  | 2.446E-03          | 9.943E-04              | 1.248E-03  | 6.472E-03 | 3.630E-03 |
| 76             | 4.409E-03                               | 8.749E-03 | 1.150E-03  | 2.186E-03          | 8.875E-04              | 1.117E-03  | 5.130E-03 | 3.291E-03 |
| 77             | 3.805E-03                               | 8.082E-03 | 9.921E-04  | 1.885E-03          | 7.658E-04              | 9.629E-04  | 4.404E-03 | 2.841E-03 |
| 78             | 3.230E-03                               | 7.345E-03 | 8.552E-04  | 1.629E-03          | 6.640E-04              | 8.298E-04  | 4.637E-03 | 2.400E-03 |
| 79             | 3.697E-03                               | 8.389E-03 | 9.858E-04  | 1.881E-03          | 7.700E-04              | 9.564E-04  | 5.978E-03 | 2.739E-03 |
| 8Ó             | 4.154E-03                               | 9.525E-03 | 1.076E-03  | 2.054E-03          | 8.377E-04              | 1.044E-03  | 4.708E-03 | 3.109E-03 |
|                |                                         |           |            |                    |                        |            | 5.183E-03 | 3.653E-03 |
| 81             | 4.869E-03                               | 1.121E-02 | 1.252E-03  | 2.395E-03          | 9.793E-04              | 1.215E-03  |           |           |
| 82             | 5.727E-03                               | 1.339E-02 | 1.462E-03  | 2.803E-03          | 1.148E-03              | 1.418E-03  | 5.664E-03 | 4.308E-03 |
| 83             | 6.305E-03                               | 1.573E-02 | 1.606E-03  | 3.081E-03          | 1.263E-03              | 1.558E-03  | 6.130E-03 | 4.745E-03 |
| 84             | 6.837E-03                               | 1.925E-02 | 1.740E-03  | 3.339E-03          | 1.369E-03              | 1.688E-03  | 6.582E-03 | 5.148E-03 |
| 85             | 7.267E-03                               | 2.651E-02 | 1.847E-03  | 3.547E-03          | 1.455E-03              | 1.791E-03  | 6.945E-03 | 5.474E-03 |
| 86             | 7.042E-03                               | 4.954E-02 | 1.795E-03  | 3.444E-03          | 1.412E-03              | 1.741E-03  | 6.936E-03 | 5.299E-03 |
|                |                                         |           |            | 1.843E-03          | 7.480E-04              | 9.425E-04  | 4.423E-03 | 2.769E-03 |
| 87             | 3.713E-03                               | 5.163E-02 | 9.710E-04  |                    |                        |            | 3.275E-03 | 1.829E-03 |
| 88             | 2.464E-03                               | 3.259E-02 | 6.534E-04  | 1.234E-03          | 4.991E-04              | 6.343E-04  |           |           |
| 89             | 1.787E-03                               | 1.317E-02 | 4.782E-04  | 9.013E-04          | 3.637E-04              | 4.642E-04  | 2.556E-03 | 1.322E-03 |
| 90             | 1.674E-03                               | 1.478E-02 | 4.503E-04  | 8.481E-04          | 3.421E-04              | 4.372E-04  | 2.515E-03 | 1.236E-03 |
| 91             | 8.147E-03                               | 1.397E-02 | 2.109E-03  | 4.012E-03          | 1.631E-03              | 2.047E-03  | 8.708E-03 | 6.099E-03 |
| 92             | 7.888E-03                               | 1.349E-02 | 2.045E-03  | 3.888E-03          | 1.580E-03              | 1.984E-03  | 8.524E-03 | 5.902E-03 |
| 93             | 7.586E-03                               | 1.292E-02 | 1.971E-03  | 3.745E-03          | 1.520E-03              | 1.913E-03  | 8.358E-03 | 5.671E-03 |
|                |                                         |           |            |                    |                        | 1.839E-03  | 8.303E-03 | 5.424E-03 |
| 94             | 7.265E-03                               | 1.233E-02 | 1.895E-03  | 3.596E-03          | 1.459E-03              |            |           | 5.188E-03 |
| 95             | 6.957E-03                               | 1.179E-02 | 1.820E-03  | 3.450E-03          | 1.398E-03              | 1.767E-03  | 8.150E-03 |           |
| 96             | 6.679 <b>E-</b> 03                      | 1.129E-02 | 1.751E-03  | 3.316 <b>E-</b> 03 | 1.343E-03              | 1.699E-03  | 7.920E-03 | 4.978E-03 |
| <del>9</del> 7 | 6.407E-03                               | 1.082E-02 | 1.687E-03  | 3.192E-03          | 1.292E-03              | 1.638E-03  | 7.954E-03 | 4.768E-03 |
| 98             | 6.038E-03                               | 1.024E-02 | 1.590E-03  | 3.00 <b>5E-</b> 03 | 1.214E-03              | 1.544E-03  | 7.391E-03 | 4.492E-03 |
| 99             | 5.701E-03                               | 9.725E-03 | 1.512E-03  | 2.857E-03          | 1.155E-03              | 1.468E-03  | 7.589E-03 | 4.231E-03 |
| 100            | 5.337E-03                               | 9.194E-03 | 1.419E-03  | 2.679E-03          | 1.082E-03              | 1.378E-03  | 7.237E-03 | 3.958E-03 |
| 101            | 5.017E-03                               | 8.746E-03 | 1.346E-03  | 2.540E-03          | 1.027E-03              | 1.306E-03  | 7.505E-03 | 3.710E-03 |
|                |                                         |           |            |                    |                        |            | 8.205E-03 | 3.481E-03 |
| 102            | 4.731E-03                               | 8.361E-03 | 1.286E-03  | 2.427E-03          | 9.830E-04              | 1.249E-03  |           |           |
| 103            | 9.305E-03                               | 1.551E-02 | 2.405E-03  | 4.580E-03          | 1.863E-03              | 2.334E-03  | 9.878E-03 | 6.969E-03 |
| 104            | 8.931E-03                               | 1.486E-02 | 2.314E-03  | 4.403E-03          | 1.790E-03              | 2.246E-03  | 9.678E-03 | 6.683E-03 |
| 105            | 8.490E-03                               | 1.411E-02 | 2.207E-03  | 4.194E-03          | 1.703E-03              | 2.142E-03  | 9.443E-03 | 6.345E-03 |
| 106            | 8.049E-03                               | 1.336E-02 | 2.103E-03  | 3.990E-03          | 1.619E-03              | 2.041E-03  | 9.394E-03 | 6.005E-03 |
| 107            | 7.656E-03                               | 1.272E-02 | 2.006E-03  | 3.803E-03          | 1.541E-03              | 1.948E-03  | 9.145E-03 | 5.707E-03 |
|                |                                         |           |            |                    | 1.466E-03              | 1.857E-03  | 8.929E-03 | 5.416E-03 |
| 108            | 7.274E-03                               | 1.210E-02 | 1.913E-03  | 3.621E-03          |                        |            |           | 5.110E-03 |
| 109            | 6.874E-03                               | 1.148E-02 | 1.816E-03  | 3.435E-03          | 1.389E-03              | 1.763E-03  | 8.830E-03 |           |
| 110            | 6.424E-03                               | 1.080E-02 | 1.706E-03  | 3.224E-03          | 1.304E-03              | 1.656E-03  | 8.714E-03 | 4.766E-03 |
| 111            | 5.986 <b>E-0</b> 3                      | 1.016E-02 | 1.595E-03  | 3.011E-03          | 1.217E-03              | 1.548E-03  | 8.330E-03 | 4.437E-03 |
| 112            | 5.584E-03                               | 9.589E-03 | 1.494E-03  | 2.821E-03          | 1.140E-03              | 1.451E-03  | 8.159E-03 | 4.132E-03 |
| 113            | 5.211E-03                               | 9.075E-03 | 1.401E-03  | 2.643E-03          | 1.069E-03              | 1.360E-03  | 7.972E-03 | 3.850E-03 |
| 114            | 4.894E-03                               | 8.655E-03 | 1.331E-03  | 2.509E-03          | 1.016E-03              | 1.292E-03  | 8.420E-03 | 3.601E-03 |
|                |                                         |           |            | 5.339E-03          | 2.174E-03              | 2.718E-03  | 1.145E-02 | 8.132E-03 |
| 115            | 1.085E-02                               | 1.749E-02 | 2.801E-03  |                    |                        |            |           | 7.697E-03 |
| 116            | 1.029E-02                               | 1.658E-02 | 2.664E-03  | 5.071E-03          | 2.063E-03              | 2.585E-03  | 1.118E-02 |           |
| 117            | 9.605E-03                               | 1.554E-02 | 2.499E-03  | 4.749E-03          | 1.929E-03              | 2.425E-03  | 1.084E-02 | 7.177E-03 |
| 118            | 8.988E-03                               | 1.459E-02 | 2.353E-03  | 4.464E-03          | 1.811E-03              | 2.284E-03  | 1.076E-02 | 6.702E-03 |
| 119            | 8.461E-03                               | 1.381E-02 | 2.232E-03  | 4.233E-03          | 1.717E-03              | 2.166E-03  | 1.102E-02 | 6.293E-03 |
| 120            | 7.874E-03                               | 1.293E-02 | 2.082E-03  | 3.939E-03          | 1.594E-03              | 2.021E-03  | 1.027E-02 | 5.851E-03 |
| 121            | 7.313E-03                               | 1.210E-02 | 1.940E-03  | 3.666E-03          | 1.482E-03              | 1.883E-03  | 9.771E-03 | 5.428E-03 |
|                |                                         |           |            |                    |                        | 1.758E-03  | 9.771E-03 | 5.019E-03 |
| 122            | 6.778E-03                               | 1.133E-02 | 1.811E-03  | 3.420E-03          | 1.383E-03              |            |           |           |
| 123            | 6.286E-03                               | 1.062E-02 | 1.684E-03  | 3.180E-03          | 1.286E-03              | 1.635E-03  | 9.350E-03 | 4.649E-03 |
| 124            | 5.894E-03                               | 1.009E-02 | 1.598E-03  | 3.019E-03          | 1.224E-03              | 1.551E-03  | 1.005E-02 | 4.341E-03 |
| 125            | 5.475E-03                               | 9.514E-03 | 1.484E-03  | 2.799E-03          | 1.133E-03              | 1.440E-03  | 9.171E-03 | 4.033E-03 |
| 126            | 5.082E-03                               | 8.994E-03 | 1.379E-03  | 2.600E-03          | 1.052E-03              | 1.339E-03  | 8.565E-03 | 3.742E-03 |
| 127            | 1.303E-02                               | 2.020E-02 | 3.355E-03  | 6.406E-03          | 2.613E-03              | 3.256E-03  | 1.361E-02 | 9.774E-03 |
| 128            | 1.215E-02                               | 1.891E-02 | 3.143E-03  | 5.990E-03          | 2.440E-03              | 3.050E-03  | 1.318E-02 | 9.101E-03 |
|                |                                         |           |            |                    | 2.222E-03              | 2.789E-03  | 1.284E-02 | 8.239E-03 |
| 129            | 1.103E-02                               | 1.735E-02 | 2.874E-03  | 5.465E-03          |                        |            |           |           |
| 130            | 1.016E-02                               | 1.613E-02 | 2.688E-03  | 5.102E-03          | 2.074E-03              | 2.609E-03  | 1.408E-02 | 7.552E-03 |
| 131            | 9.278E-03                               | 1.490E-02 | 2.471E-03  | 4.679E-03          | 1.899E-03              | 2.399E-03  | 1.350E-02 | 6.877E-03 |
| 132            | 8.486E-03                               | 1.380E-02 | 2.273E-03  | 4.299E-03          | 1.743E-03              | 2.206E-03  | 1.287E-02 | 6.278E-03 |
| 133            | 7.735E-03                               | 1.271E-02 | 2.064E-03  | 3.898E-03          | 1.576E-03              | 2.004E-03  | 1.100E-02 | 5.729E-03 |
| 134            | 7.174E-03                               | 1.192E-02 | 1.934E-03  | 3.651E-03          | 1.479E-03              | 1.877E-03  | 1.147E-02 | 5.296E-03 |
|                |                                         |           |            |                    |                        | 1.745E-03  | 1.090E-02 | 4.907E-03 |
| 135            | 6.653E-03                               | 1.119E-02 | 1.797E-03  | 3.393E-03          | 1.375E-03              |            | 9.984E-03 | 4.557E-03 |
| 136            | 6.178E-03                               | 1.054E-02 | 1.668E-03  | 3.148E-03          | 1.274E-03              | 1.620E-03  |           | 4.3375-03 |
| 137            | 5.726E-03                               | 9.940E-03 | 1.549E-03  | 2.921E-03          | 1.182E-03              | 1.503E-03  | 9.383E-03 | 4.221E-03 |
| 138            | 5.309E-03                               | 9.393E-03 | 1.439E-03  | 2.712E-03          | 1.097E-03              | 1.396E-03  | 8.811E-03 | 3.911E-03 |
| 139            | 1.652E-02                               | 2.445E-02 | 4.251E-03  | 8.143E-03          | 3.334E-03              | 4.124E-03  | 1.822E-02 | 1.239E-02 |
| 140            | 1.517E-02                               | 2.260E-02 | 3.929E-03  | 7.509E-03          | 3.071E-03              | 3.812E-03  | 1.779E-02 | 1.135E-02 |
| 141            | 1.301E-02                               | 1.982E-02 | 3.408E-03  | 6.490E-03          | 2.646E-03              | 3.307E-03  | 1.673E-02 | 9.704E-03 |
| 142            | 1.120E-02                               | 1.746E-02 | 2.967E-03  | 5.625E-03          | 2.285E-03              | 2.880E-03  | 1.561E-02 | 8.315E-03 |
|                |                                         |           | 2.658E-03  | 5.025E-03          | 2.285E-03<br>2.036E-03 | 2.580E-03  | 1.462E-02 | 7.369E-03 |
| 143            | 9.952E-03                               | 1.581E-02 |            |                    |                        |            | 1.389E-02 | 6.639E-03 |
| 144            | 8.985E-03                               | 1.450E-02 | 2.414E-03  | 4.558E-03          | 1.845E-03              | 2.343E-03  |           |           |
| 145            | 8.198E-03                               | 1.341E-02 | 2.208E-03  | 4.167E-03          | 1.687E-03              | 2.143E-03  | 1.292E-02 | 6.053E-03 |
| 146            | 7.559E-03                               | 1.251E-02 | 2.039E-03  | 3.848E-03          | 1.558E-03              | 1.979E-03  | 1.212E-02 | 5.579E-03 |
| 147            | 6.992E-03                               | 1.173E-02 | 1.885E-03  | 3.559E-03          | 1.441E-03              | 1.830E-03  | 1.118E-02 | 5.161E-03 |
| 148            | 6.474E-03                               | 1.104E-02 | 1.746E-03  | 3.295E-03          | 1.334E-03              | 1.695E-03  | 1.034E-02 | 4.777E-03 |
| 149            | 6.007E-03                               | 1.042E-02 | 1.621E-03  | 3.058E-03          | 1.237E-03              | 1.574E-03  | 9.619E-03 | 4.432E-03 |
|                |                                         |           | 1.502E-03  | 2.834E-03          | 1.146E-03              | 1.458E-03  | 8.931E-03 | 4.105E-03 |
| 150            | 5.564E-03                               | 9.839E-03 |            |                    | 1.140E-00              |            |           | 6.375E-03 |
| 151            | 8.640E-03                               | 1.408E-02 | 2.331E-03  | 4.398E-03          | 1.780E-03              | 2.263E-03  | 1.385E-02 |           |
| 152            | 7.993E-03                               | 1.318E-02 | 2.152E-03  | 4.061E-03          | 1.644E-03              | 2.089E-03  | 1.255E-02 | 5.903E-03 |
| 153            | 7.415E-03                               | 1.239E-02 | 1.993E-03  | 3.763 <b>E-</b> 03 | 1.523E-03              | 1.935E-03  | 1.149E-02 | 5.479E-03 |
| 154            | 6.832E-03                               | 1.163E-02 | 1.841E-03  | 3.479E-03          | 1.411E-03              | 1.787E-03  | 1.103E-02 | 5.044E-03 |
| 155            | 6.394E-03                               | 1.103E-02 | 1.719E-03  | 3.245E-03          | 1.313E-03              | 1.668E-03  | 9.882E-03 | 4.724E-03 |
| 156            | 5.893E-03                               | 1.039E-02 | 1.585E-03  | 2.995E-03          | 1.213E-03              | 1.538E-03  | 9.279E-03 | 4.353E-03 |
|                |                                         |           |            | 2.288E-03          |                        | 1.171E-03  | 7.370E-03 | 3.319E-03 |
| 157            | 4.491E-03                               | 8.312E-03 | 1.207E-03  | 4.400E-03          | 9.317E-04              |            |           |           |
| 158            | 4.614E-03                               | 8.419E-03 | 1.235E-03  | 2.341E-03          | 9.515E-04              | 1.199E-03  | 7.201E-03 | 3.414E-03 |
| 159            | 4.552E-03                               | 8.451E-03 | 1.191E-03  | 2.257E-03          | 9.136E-04              | 1.156E-03  | 5.269E-03 | 3.395E-03 |
| 160            | 4.434E-03                               | 8.344E-03 | 1.154E-03  | 2.190E-03          | 8.878E-04              | 1.120E-03  | 4.897E-03 | 3.313E-03 |
| 161            | 4.213E-03                               | 7.930E-03 | 1.096E-03  | 2.080E-03          | 8.436E-04              | 1.064E-03  | 4.649E-03 | 3.148E-03 |
| 162            | 4.007E-03                               | 7.455E-03 | 1.045E-03  | 1.981E-03          | 8.030E-04              | 1.014E-03  | 4.495E-03 | 2.992E-03 |
|                |                                         |           |            | 1.906E-03          | 7.719E-04              | 9.767E-04  | 4.425E-03 | 2.871E-03 |
| 163            | 3.848E-03                               | 6.998E-03 | 1.006E-03  |                    |                        |            |           | 2.666E-03 |
| 164            | 3.582E-03                               | 6.475E-03 | 9.417E-04  | 1.780E-03          | 7.194E-04              | 9.143E-04  | 4.298E-03 |           |
| 165            | 3.221E-03                               | 5.921E-03 | 8.539E-04  | 1.610E-03          | 6.488E-04              | 8.291E-04  | 4.113E-03 | 2.391E-03 |
| 166            | 2.841E-03                               | 5.406E-03 | 7.584E-04  | 1.425E-03          | 5.730E-04              | 7.365E-04  | 3.792E-03 | 2.104E-03 |
| 167            | 2.540E-03                               | 5.046E-03 | 6.790E-04  | 1.275E-03          | 5.120E-04              | 6.594E-04  | 3.398E-03 | 1.880E-03 |
| 168            | 5.699E-03                               | 1.023E-02 | 1.488E-03  | 2.822E-03          | 1.144E-03              | 1.445E-03  | 6.519E-03 | 4.253E-03 |
| 169            | 5.710E-03                               | 1.036E-02 | 1.486E-03  | 2.820E-03          | 1.143E-03              | 1.442E-03  | 6.303E-03 | 4.266E-03 |
|                |                                         |           | A. 4000 00 |                    |                        | 00         |           |           |
| 107            | *************************************** |           |            |                    |                        |            |           |           |

| 170        | 5.462E-03              | 9.991E-03              | 1.418E-03              | 2.694E-03              | 1.094E-03              | 1.376E-03              | 5.943E-03              | 4.085E-03              |
|------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| 171<br>172 | 5.125E-03              | 9.288E-03              | 1.334E-03              | 2.532E-03              | 1.027E-03              | 1.295E-03              | 5.697E-03              | 3.829E-03              |
| 173        | 4.815E-03<br>4.490E-03 | 8.589E-03              | 1.258E-03              | 2.385E-03              | 9.659E-04              | 1.222E-03              | 5.525E-03              | 3.593E-03              |
| 174        | 3.992E-03              | 7.894E-03              | 1.180E-03              | 2.231E-03              | 9.026E-04              | 1.145E-03              | 5.396E-03              | 3.344E-03              |
| 175        | 3.464E-03              | 7.124E-03              | 1.059E-03              | 1.998E-03              | 8.067E-04              | 1.028E-03              | 5.233E-03              | 2.963E-03              |
| 176        | 3.464E-03              | 6.397E-03              | 9.286E-04              | 1.748E-03              | 7.045E-04              | 9.017E-04              | 4.974E-03              | 2.562E-03              |
| 177        | 2.665E-03              | 5.822E-03<br>5.373E-03 | 8.055E-04<br>7.132E-04 | 1.513E-03              | 6.079E-04              | 7.822E-04              | 4.170E-03              | 2.22E-03               |
| 178        | 7.610E-03              | 1.328E-02              | 2.001E-03              | 1.340E-03              | 5.388E-04              | 6.926E-04              | 3.650E-03              | 1.972E-03              |
| 179        | 7.414E-03              | 1.298E-02              | 1.922E-03              | 3.809E-03              | 1.552E-03              | 1.941E-03              | 1.008E-02              | 5.667E-03              |
| 180        | 6.947E-03              | 1.214E-02              | 1.802E-03              | 3.655E-03<br>3.426E-03 | 1.485E-03<br>1.391E-03 | 1.865E-03              | 8.027E-03              | 5.547E-03              |
| 181        | 6.344E-03              | 1.097E-02              | 1.656E-03              | 3.141E-03              | 1.371E-03              | 1.749E-03<br>1.608E-03 | 7.547E-03              | 5.196E-03              |
| 182        | 5.834E-03              | 9.980E-03              | 1.539E-03              | 2.913E-03              | 1.180E-03              | 1.494E-03              | 7.265E-03              | 4.735E-03              |
| 183        | 5.109E-03              | 8.829E-03              | 1.353E-03              | 2.556E-03              | 1.033E-03              | 1.314E-03              | 7.463E-03<br>6.669E-03 | 4.339E-03              |
| 184        | 4.424E-03              | 7.877E-03              | 1.202E-03              | 2.267E-03              | 9.183E-04              | 1.166E-03              | 7.598E-03              | 3.794E-03<br>3.256E-03 |
| 185        | 3.721E-03              | 6.948E-03              | 1.010E-03              | 1.902E-03              | 7.678E-04              | 9.811E-04              | 6.137E-03              | 2.739E-03              |
| 186        | 3.197E-03              | 6.276E-03              | 8.607E-04              | 1.619E-03              | 6.517E-04              | 8.357E-04              | 4.738E-03              | 2.361E-03              |
| 187        | 2.825E-03              | 5.714E-03              | 7.528E-04              | 1.418E-03              | 5.716E-04              | 7.310E-04              | 3.819E-03              | 2.093E-03              |
| 188        | 1.069E-02              | 1.781E-02              | 2.791E-03              | 5.325E-03              | 2.176E-03              | 2.708E-03              | 1.371E-02              | 7.975E-03              |
| 189        | 1.032E-02              | 1.696E-02              | 2.662E-03              | 5.075E-03              | 2.068E-03              | 2.583E-03              | 1.086E-02              | 7.734E-03              |
| 190        | 9.297E-03              | 1.523E-02              | 2.413E-03              | 4.589E-03              | 1.865E-03              | 2.342E-03              | 1.025E-02              | 6.952E-03              |
| 191        | 8.049E-03              | 1.324E-02              | 2.115E-03              | 4.009E-03              | 1.625E-03              | 2.053E-03              | 9.963E-03              | 5.994E-03              |
| 192        | 6.842E-03              | 1.142E-02              | 1.816E-03              | 3.432E-03              | 1.388E-03              | 1.763E-03              | 9.215E-03              | 5.077E-03              |
| 193        | 5.721E-03              | 9.808E-03              | 1.537E-03              | 2.902E-03              | 1.174E-03              | 1.492E-03              | 8.783E-03              | 4.227E-03              |
| 194        | 4.813E-03              | 8.590E-03              | 1.308E-03              | 2.464E-03              | 9.968E-04              | 1.270E-03              | 8.171E-03              | 3.542E-03              |
| 195<br>196 | 4.017E-03<br>3.484E-03 | 7.576E-03              | 1.087E-03              | 2.048E-03              | 8.271E-04              | 1.055E-03              | 6.452E-03              | 2.961E-03              |
| 197        | 2.973E-03              | 6.841E-03<br>6.003E-03 | 9.383E-04              | 1.774E-03              | 7.179E-04              | 9.109E-04              | 5.489E-03              | 2.572E-03              |
| 198        | 1.735E-02              | 2.644E-02              | 7.868E-04<br>4.459E-03 | 1.488E-03              | 6.025E-04              | 7.638E-04              | 3.924E-03              | 2.208E-03              |
| 199        | 1.704E-02              | 2.533E-02              | 4.363E-03              | 8.553E-03<br>8.364E-03 | 3.511E-03<br>3.424E-03 | 4.325E-03<br>4.233E-03 | 1.950E-02              | 1.302E-02              |
| 200        | 1.409E-02              | 2.120E-02              | 3.666E-03              | 6.993E-03              | 2.856E-03              | 3.557E-03              | 1.742E-02<br>1.715E-02 | 1.281E-02<br>1.053E-02 |
| 201        | 7.871E-03              | 1.294E-02              | 2.124E-03              | 4.009E-03              | 1.623E-03              | 2.062E-03              | 1.270E-02              | 5.808E-03              |
| 202        | 5.365E-03              | 9.583E-03              | 1.449E-03              | 2.733E-03              | 1.106E-03              | 1.406E-03              | 8.646E-03              | 3.958E-03              |
| 203        | 4.444E-03              | 8.391E-03              | 1.201E-03              | 2.270E-03              | 9.215E-04              | 1.165E-03              | 7.420E-03              | 3.278E-03              |
| 204        | 3.67 <b>8E-03</b>      | 7.214E-03              | 9.705E-04              | 1.839E-03              | 7.455E-04              | 9.420E-04              | 4.789E-03              | 2.735E-03              |
| 205        | 2.998E-03              | 6.085E-03              | 7.868E-04              | 1.492E-03              | 6.052E-04              | 7.637E-04              | 3.695E-03              | 2.233E-03              |
| 206        | 2.895E-03              | 5.9 <b>95E-</b> 03     | 7.567E-04              | 1.437E-03              | 5.836E-04              | 7.345E-04              | 3.459E-03              | 2.159E-03              |
| 207        | 2.686E-03              | 5.720E-03              | 7.167E-04              | 1.363E-03              | 5.562E-04              | 6.954E-04              | 4.240E-03              | 1.990E-03              |
| 208        | 2.640E-04              | 6.790E-04              | 7.129E-05              | 1.343E-04              | 5.422E-05              | 6.921E-05              | 4.141E-04              | 1.948E-04              |
| 209<br>210 | 3.040E-04              | 7.498E-04              | 8.177E-05              | 1.541E-04              | 6.219E-05              | 7.939E-05              | 4.594E-04              | 2.245E-04              |
| 211        | 3.585E-04<br>4.246E-04 | 9.114E-04<br>1.090E-03 | 9.642E-05<br>1.138E-04 | 1.814E-04              | 7.310E-05              | 9.362E-05              | 5.308E-04              | 2.648E-04              |
| 212        | 5.121E-04              | 1.342E-03              | 1.366E-04              | 2.143E-04<br>2.575E-04 | 8.635E-05<br>1.038E-04 | 1.105E-04<br>1.326E-04 | 6.082E-04<br>7.041E-04 | 3.140E-04<br>3.794E-04 |
| 213        | 6.436E-04              | 1.708E-03              | 1.714E-04              | 3.228E-04              | 1.301E-04              | 1.664E-04              | 8.582E-04              | 4.770E-04              |
| 214        | 8.262E-04              | 2.128E-03              | 2.190E-04              | 4.130E-04              | 1.665E-04              | 2.127E-04              | 1.057E-03              | 6.133E-04              |
| 215        | 1.070E-03              | 2.525E-03              | 2.828E-04              | 5.334E-04              | 2.150E-04              | 2.746E-04              | 1.326E-03              | 7.948E-04              |
| 216        | 1.279E-03              | 2.950E-03              | 3.384E-04              | 6.377E-04              | 2.569E-04              | 3.286E-04              | 1.586E-03              | 9.499E-04              |
| 217<br>218 | 1.478E-03              | 3.197E-03              | 3.896E-04              | 7.354E-04              | 2.967E-04              | 3.783E-04              | 1.781E-03              | 1.100E-03              |
| 219        | 1.585E-03<br>1.638E-03 | 3.354E-03<br>3.364E-03 | 4.171E-04<br>4.312E-04 | 7.876E-04              | 3.179E-04              | 4.050E-04              | 1.883E-03              | 1.180E-03              |
| 220        | 1.536E-03              | 3.123E-03              | 4.060E-04              | 8.140E-04<br>7.650E-04 | 3.284E-04              | 4.187E-04              | 1.944E-03              | 1.219E-03              |
| 221        | 1.413E-03              | 2.941E-03              | 3.725E-04              | 7.025E-04              | 3.080E-04<br>2.832E-04 | 3.943E-04<br>3.617E-04 | 1.864E-03<br>1.692E-03 | 1.142E-03              |
| 222        | 1.311E-03              | 2.774E-03              | 3.428E-04              | 6.493E-04              | 2.628E-04              | 3.328E-04              | 1.500E-03              | 1.051E-03<br>9.780E-04 |
| 223        | 1.302E-03              | 2.678E-03              | 3.405E-04              | 6.451E-04              | 2.612E-04              | 3.306E-04              | 1.500E-03              | 9.713E-04              |
| 224        | 1.296E-03              | 2.644E-03              | 3.411E-04              | 6.446E-04              | 2.605E-04              | 3.311E-04              | 1.574E-03              | 9.641E-04              |
| 225        | 1.262E-03              | 2.612E-03              | 3.355E-04              | 6.318E-04              | 2.545E-04              | 3.258E-04              | 1.650E-03              | 9.358E-04              |
| 226<br>227 | 1.194E-03              | 2.499E-03              | 3.185E-04              | 5.991E-04              | 2.411E-04              | 3.092E-04              | 1.607E-03              | 8.840E-04              |
| 228        | 2.577E-04<br>3.062E-04 | 6.726E-04<br>7.928E-04 | 7.026E-05              | 1.320E-04              | 5.316E-05              | 6.822E-05              | 4.328E-04              | 1.894E-04              |
| 229        | 3.624E-04              | 9.038E-04              | 8.287E-05<br>9.754E-05 | 1.560E-04              | 6.296E-05              | 8.046E-05              | 4.881E-04              | 2.257E-04              |
| 230        | 4.353E-04              | 1.132E-03              | 1.169E-04              | 1.838E-04<br>2.201E-04 | 7.418E-05<br>8.873E-05 | 9.470E-05<br>1.135E-04 | 5.511E-04              | 2.676E-04<br>3.217E-04 |
| 231        | 5.298E-04              | 1.374E-03              | 1.417E-04              | 2.669E-04              | 1.076E-04              | 1.376E-04              | 6.388E-04<br>7.452E-04 | 3.921E-04              |
| 232        | 6.637E-04              | 1.791E-03              | 1.766E-04              | 3.329E-04              | 1.343E-04              | 1.715E-04              | 8.878E-04              | 4.920E-04              |
| 233        | 8.710E-04              | 2.286E-03              | 2.310E-04              | 4.355E-04              | 1.756E-04              | 2.243E-04              | 1.119E-03              | 6.465E-04              |
| 234        | 1.161E-03              | 2.846E-03              | 3.068E-04              | 5.789E-04              | 2.335E-04              | 2.979E-04              | 1.439E-03              | 8.629E-04              |
| 235        | 1.469E-03              | 3.419E-03              | 3.879E-04              | 7.317E-04              | 2.950E-04              | 3.767E-04              | 1.799E-03              | 1.092E-03              |
| 236<br>237 | 1.756E-03              | 3.788E-03              | 4.625E-04              | 8.731E-04              | 3.523E-04              | 4.491E-04              | 2.109E-03              | 1.306E-03              |
| 238        | 1.929E-03              | 3.990E-03              | 5.072E-04              | 9.581E-04              | 3.868E-04              | 4.924E-04              | 2.275E-03              | 1.437E-03              |
| 239        | 1.965E-03<br>1.826E-03 | 3.965E-03              | 5.172E-04              | 9.763E-04              | 3.939E-04              | 5.021E-04              | 2.328E-03              | 1.462E-03              |
| 240        | 1.682E-03              | 3.660E-03<br>3.521E-03 | 4.820E-04              | 9.085E-04              | 3.659E-04              | 4.680E-04              | 2.201E-03              | 1.357E-03              |
| 241        | 1.620E-03              | 3.314E-03              | 4.413E-04<br>4.225E-04 | 8.344E-04<br>8.011E-04 | 3.372E-04<br>3.246E-04 | 4.284E-04<br>4.101E-04 | 1.955E-03<br>1.829E-03 | 1.254E-03<br>1.209E-03 |
| 242        | 1.607E-03              | 3.223E-03              | 4.213E-04              | 7.974E-04              | 3.226E-04              | 4.090E-04              | 1.892E-03              | 1.197E-03              |
| 243        | 1.536E-03              | 3.097E-03              | 4.071E-04              | 7.674E-04              | 3.094E-04              | 3.953E-04              | 1.959E-03              | 1.140E-03              |
| 244        | 1.429E-03              | 2.945E-03              | 3.815E-04              | 7.174E-04              | 2.886E-04              | 3.705E-04              | 1.924E-03              | 1.058E-03              |
| 245        | 1.276E-03              | 2.695E-03              | 3.408E-04              | 6.410E-04              | 2.578E-04              | 3.310E-04              | 1.723E-03              | 9.452E-04              |
| 246        | 2.365E-04              | 6.244E-04              | 6.446E-05              | 1.212E-04              | 4.888E-05              | 6.258E-05              | 4.001E-04              | 1.739E-04              |
| 247<br>248 | 2.920E-04              | 7.788E-04              | 7.975E-05              | 1.498E-04              | 6.036E-05              | 7.743E-05              | 4.991E-04              | 2.145E-04              |
| 249        | 3.581E-04<br>4.407E-04 | 9.415E-04<br>1.127E-03 | 9.706E-05              | 1.826E-04              | 7.364E-05              | 9.423E-05              | 5.750E-04              | 2.638E-04              |
| 250        | 5.457E-04              | 1.436E-03              | 1.186E-04<br>1.463E-04 | 2.233E-04<br>2.756E-04 | 9.007E-05<br>1.112E-04 | 1.151E-04<br>1.420E-04 | 6.623E-04              | 3.255E-04              |
| 251        | 6.918E-04              | 1.853E-03              | 1.845E-04              | 3.477E-04              | 1.402E-04              | 1.791E-04              | 7.908E-04<br>9.472E-04 | 4.035E-04<br>5.125E-04 |
| 252        | 9.137E-04              | 2.488E-03              | 2.423E-04              | 4.570E-04              | 1.844E-04              | 2.352E-04              | 1.181E-03              | 6.782E-04              |
| 253        | 1.269E-03              | 3.241E-03              | 3.350E-04              | 6.325E-04              | 2.553E-04              | 3.253E-04              | 1.567E-03              | 9.435E-04              |
| 254        | 1.705E-03              | 4.014E-03              | 4.489E-04              | 8.480E-04              | 3.424E-04              | 4.359E-04              | 2.054E-03              | 1.269E-03              |
| 255        | 2.136E-03              | 4.596E-03              | 5.621E-04              | 1.062E-03              | 4.285E-04              | 5.458E-04              | 2.543E-03              | 1.590E-03              |
| 256        | 2.414E-03              | 4.861E-03              | 6.339E-04              | 1.198E-03              | 4.839E-04              | 6.155E-04              | 2.824E-03              | 1.798E-03              |
| 257        | 2.420E-03              | 4.749E-03              | 6.367E-04              | 1.202E-03              | 4.849E-04              | 6.182E-04              | 2.861E-03              | 1.801E-03              |
| 258<br>259 | 2.272E-03<br>2.122E-03 | 4.540E-03              | 5.978E-04              | 1.128E-03              | 4.552E-04              | 5.805E-04              | 2.685E-03              | 1.691E-03              |
| 260        | 2.122E-03<br>2.077E-03 | 4.325E-03<br>4.084E-03 | 5.538E-04<br>5.421E-04 | 1.050E-03              | 4.251E-04              | 5.376E-04              | 2.395E-03              | 1.584E-03              |
| 261        | 1.947E-03              | 3.818E-03              | 5.137E-04              | 1.028E-03<br>9.699E-04 | 4.165E-04<br>3.916E-04 | 5.262E-04              | 2.361E-03              | 1.550E-03              |
| 262        | 1.759E-03              | 3.540E-03              | 4.696E-04              | 8.826E-04              | 3.548E-04              | 4.987E-04<br>4.560E-04 | 2.394E-03<br>2.352E-03 | 1.448E-03<br>1.302E-03 |
| 263        | 1.558E-03              | 3.234E-03              | 4.159E-04              | 7.820E-04              | 3.145E-04              | 4.039E-04              | 2.095E-03              | 1.153E-03              |
| 264        | 1.318E-03              | 2.834E-03              | 3.506E-04              | 6.602E-04              | 2.659E-04              | 3.405E-04              | 1.738E-03              | 9.768E-04              |
| 265        | 2.365E-04              | 6.542E-04              | 6.447E-05              | 1.218E-04              | 4.937E-05              | 6.257E-05              | 4.218E-04              | 1.739E-04              |
| 266        | 2.764E-04              | 7.482E-04              | 7.512E-05              | 1.416E-04              | 5.727E-05              | 7.292E-05              | 4.687E-04              | 2.034E-04              |
|            |                        |                        |                        |                        |                        |                        |                        |                        |

| 267<br>268 | 3.399E-04<br>4.269E-04 | 9.289E-04<br>1.148E-03          | 9.263E-05<br>1.158E-04 | 1.742E-04<br>2.178E-04 | 7.027E-05<br>8.781E-05              | 8.993E-05<br>1.124E-04 | 5.760E-04<br>6.871E-04 | 2.499E-04<br>3.144E-04                     |
|------------|------------------------|---------------------------------|------------------------|------------------------|-------------------------------------|------------------------|------------------------|--------------------------------------------|
| 269        | 5.501E-04              | 1.464E-03                       | 1.480E-04              | 2.786E-04              | 1.123E-04                           | 1.437E-04              | 8.209E-04              | 4.063E-04                                  |
| 270        | 7.142E-04              | 1.915E-03                       | 1.907E-04              | 3.595E-04              | 1.450E-04                           | 1.852E-04              | 9.960E-04              | 5.289E-04                                  |
| 271        | 9.680E-04              | 2.709E-03                       | 2.571E-04              | 4.849E-04              | 1.956E-04                           | 2.496E-04              | 1.273E-03              | 7.182E-04                                  |
| 272        | 1.377E-03              | 3.700E-03                       | 3.630E-04              | 6.860E-04              | 2.772E-04                           | 3.524E-04              | 1.695E-03              | 1.024E-03                                  |
| 273        | 2.017E-03              | 4.803E-03                       | 5.296E-04              | 1.002E-03              | 4.053E-04                           | 5.141E-04              | 2.407E-03              | 1.502E-03                                  |
| 274        | 2.708E-03              | 5.785E-03                       | 7.178E-04              | 1.359E-03              | 5.505E-04                           | 6.968E-04              | 3.662E-03              | 2.011E-03                                  |
| 275<br>276 | 3.154E-03              | 6.145E-03<br>6.020E-03          | 8.290E-04<br>8.279E-04 | 1.569E-03<br>1.564E-03 | 6.343E-04                           | 8.048E-04<br>8.038E-04 | 3.787E-03<br>3.687E-03 | 2.349E-03<br>2.346E-03                     |
| 276<br>277 | 3.151E-03<br>2.985E-03 | 5.882E-03                       | 7.800E-04              | 1.477E-03              | 6.313E-04<br>5.978E-04              | 7.572E-04              | 3.382E-03              | 2.227E-03                                  |
| 278        | 2.808E-03              | 5.454E-03                       | 7.316E-04              | 1.388E-03              | 5.626E-04                           | 7.102E-04              | 3.140E-03              | 2.097E-03                                  |
| 279        | 2.641E-03              | 4.995E-03                       | 6.928E-04              | 1.311E-03              | 5.301E-04                           | 6.726E-04              | 3.118E-03              | 1.967E-03                                  |
| 280        | 2.283E-03              | 4.413E-03                       | 6.080E-04              | 1.144E-03              | 4.600E-04                           | 5.904E-04              | 2.985E-03              | 1.692E-03                                  |
| 281        | 1.946E-03              | 3.969E-03                       | 5.199E-04              | 9.769E-04              | 3.926E-04                           | 5.049E-04              | 2.608E-03              | 1.441E-03                                  |
| 282        | 1.622E-03              | 3.458E-03                       | 4.313E-04              | 8.121E-04<br>6.469E-04 | 3.270E-04<br>2.608E-04              | 4.188E-04<br>3.332E-04 | 2.119E-03<br>1.666E-03 | 1.203E-03<br>9.601E-04                     |
| 283<br>284 | 1.294E-03<br>2.423E-04 | 2.875E-03<br>6.170E-04          | 3.431E-04<br>6.638E-05 | 1.249E-04              | 5.047E-05                           | 6.444E-05              | 4.363E-04              | 1.778E-04                                  |
| 285        | 2.823E-04              | 7.695E-04                       | 7.719E-05              | 1.456E-04              | 5.896E-05                           | 7.493E-05              | 5.112E-04              | 2.073E-04                                  |
| 286        | 3.367E-04              | 9.229E-04                       | 9.130E-05              | 1.724E-04              | 6.984E-05                           | 8.863E-05              | 5.689E-04              | 2.480E-04                                  |
| 287        | 4.192E-04              | 1.164E-03                       | 1.134E-04              | 2.138E-04              | 8.643E-05                           | 1.101E-04              | 6.796E-04              | 3.090E-04                                  |
| 288        | 5.345E-04              | 1.473E-03                       | 1.443E-04              | 2.719E-04              | 1.097E-04                           | 1.401E-04              | 8.348E-04              | 3.943E-04                                  |
| 289        | 7.172E-04              | 2.003E-03                       | 1.925E-04              | 3.624E-04              | 1.461E-04                           | 1.869E-04              | 1.044E-03              | 5.301E-04                                  |
| 290<br>291 | 1.005E-03<br>1.510E-03 | 2.859E-03<br>4.310E-03          | 2.674E-04<br>3.978E-04 | 5.043E-04<br>7.521E-04 | 2.035E-04<br>3.040E-04              | 2.596E-04<br>3.862E-04 | 1.354E-03<br>1.855E-03 | 7.450E-04<br>1.124E-03                     |
| 292        | 2.524E-03              | 6.016E-03                       | 6.797E-04              | 1.290E-03              | 5.260E-04                           | 6.595E-04              | 4.296E-03              | 1.863E-03                                  |
| 293        | 3.584E-03              | 7.521E-03                       | 9.357E-04              | 1.775E-03              | 7.192E-04                           | 9.083E-04              | 4.098E-03              | 2.675E-03                                  |
| 294        | 2.068E-03              | 4.332E-03                       | 5.496E-04              | 1.035E-03              | 4.165E-04                           | 5.337E-04              | 2.674E-03              | 1.534E-03                                  |
| 295        | 1.593E-03              | 3.491E-03                       | 4.218E-04              | 7.953E-04              | 3.206E-04                           | 4.095E-04              | 2.017E-03              | 1.183E-03                                  |
| 296        | 1.190E-03              | 2.667E-03                       | 3.153E-04              | 5.945E-04              | 2.396E-04                           | 3.062E-04              | 1.507E-03              | 8.839E-04<br>1.605E-04                     |
| 297<br>298 | 2.194E-04<br>2.656E-04 | 5.544E-04<br>6.829E-04          | 6.060E-05<br>7.335E-05 | 1.136E-04<br>1.376E-04 | 4.574E-05<br>5.542E-05              | 5.884E-05<br>7.122E-05 | 4.090E-04<br>4.978E-04 | 1.943E-04                                  |
| 299        | 3.242E-04              | 8.886E-04                       | 8.946E-05              | 1.680E-04              | 6.778E-05                           | 8.685E-05              | 6.111E-04              | 2.372E-04                                  |
| 300        | 3.979E-04              | 1.133E-03                       | 1.087E-04              | 2.046E-04              | 8.255E-05                           | 1.056E-04              | 6.937E-04              | 2.922E-04                                  |
| 301        | 5.168E-04              | 1.510E-03                       | 1.398E-04              | 2.634E-04              | 1.063E-04                           | 1.358E-04              | 8.282E-04              | 3.809E-04                                  |
| 302        | 7.081E-04              | 2.039E-03                       | 1.899E-04              | 3.582E-04              | 1.447E-04                           | 1.844E-04              | 1.047E-03              | 5.236E-04                                  |
| 303        | 1.030E-03              | 3.043E-03                       | 2.743E-04              | 5.175E-04              | 2.089E-04                           | 2.663E-04              | 1.408E-03              | 7.635E-04                                  |
| 304        | 1.628E-03              | 5.011E-03                       | 4.297E-04              | 8.122E-04              | 3.282E-04                           | 4.172E-04<br>7.516E-04 | 2.039E-03<br>3.457E-03 | 1.211E-03<br>2.220E-03                     |
| 305<br>306 | 2.972E-03<br>2.082E-03 | 7.524E-03<br>4.431E-03          | 7.744E-04<br>5.482E-04 | 1.473E-03<br>1.036E-03 | 5.988E-04<br>4.186E-04              | 5.322E-04              | 2.532E-03              | 1.549E-03                                  |
| 307        | 1.488E-03              | 3.255E-03                       | 3.918E-04              | 7.403E-04              | 2.990E-04                           | 3.804E-04              | 1.810E-03              | 1.107E-03                                  |
| 308        | 1.102E-03              | 2.461E-03                       | 2.902E-04              | 5.482E-04              | 2.214E-04                           | 2.817E-04              | 1.336E-03              | 8.199E-04                                  |
| 309        | 1.774E-04              | 5.350E-04                       | 4.963E-05              | 9.349E-05              | 3.793E-05                           | 4.816E-05              | 3.884E-04              | 1.292E-04                                  |
| 310        | 2.218E-04              | 6.335E-04                       | 6.150E-05              | 1.157E-04              | 4.680E-05                           | 5.970E-05              | 4.445E-04              | 1.620E-04                                  |
| 311        | 2.815E-04              | 7.891E-04                       | 7.769E-05              | 1.460E-04              | 5.894E-05                           | 7.542E-05              | 5.345E-04              | 2.060E-04                                  |
| 312        | 3.621E-04<br>4.709E-04 | 1.046E-03<br>1.422E-03          | 9.956E-05<br>1.289E-04 | 1.869E-04<br>2.421E-04 | 7.536E-05<br>9.755E-05              | 9.666E-05<br>1.251E-04 | 6.589E-04<br>8.192E-04 | 2.653E-04<br>3.457E-04                     |
| 313<br>314 | 6.541E-04              | 2.076E-03                       | 1.773E-04              | 3.334E-04              | 1.343E-04                           | 1.722E-04              | 1.044E-03              | 4.818E-04                                  |
| 315        | 9.720E-04              | 3.163E-03                       | 2.612E-04              | 4.916E-04              | 1.981E-04                           | 2.536E-04              | 1.427E-03              | 7.182E-04                                  |
| 316        | 1.628E-03              | 5.815E-03                       | 4.317E-04              | 8.147E-04              | 3.289E-04                           | 4.191E-04              | 2.129E-03              | 1.208E-03                                  |
| 317        | 3.552E-03              | 1.049E-02                       | 9.211E-04              | 1.753E-03              | 7.133E-04                           | 8.939E-04              | 3.926E-03              | 2.657E-03                                  |
| 318        | 1.904E-03              | 4.140E-03                       | 4.999E-04              | 9.466E-04              | 3.832E-04                           | 4.853E-04              | 2.291E-03              | 1.419E-03                                  |
| 319        | 1.300E-03              | 2.976E-03                       | 3.424E-04<br>2.565E-04 | 6.470E-04<br>4.839E-04 | 2.613E-04<br>1.951E-04              | 3.324E-04<br>2.490E-04 | 1.586E-03<br>1.189E-03 | 9.670E-04<br>7.223E-04                     |
| 320<br>321 | 9.716E-04<br>1.524E-04 | 2.303E-03<br>4.948E-04          | 4.299E-05              | 8.104E-05              | 3.296E-05                           | 4.171E-05              | 3.606E-04              | 1.106E-04                                  |
| 322        | 1.827E-04              | 6.042E-04                       | 5.179E-05              | 9.766E-05              | 3.974E-05                           | 5.026E-05              | 4.472E-04              | 1.324E-04                                  |
| 323        | 2.214E-04              | 7.224E-04                       | 6.210E-05              | 1.170E-04              | 4.745E-05                           | 6.027E-05              | 4.929E-04              | 1.611E-04                                  |
| 324        | 2.825E-04              | 8.926E-04                       | 7.825E-05              | 1.472E-04              | 5.951E-05                           | 7.596E-05              | 5.591E-04              | 2.065E-04                                  |
| 325        | 3.850E-04              | 1.230E-03                       | 1.059E-04              | 1.989E-04              | 8.026E-05                           | 1.028E-04              | 7.055E-04              | 2.822E-04                                  |
| 326        | 5.461E-04              | 1.902E-03                       | 1.497E-04<br>2.237E-04 | 2.811E-04<br>4.201E-04 | 1.132E-04<br>1.690E-04              | 1.454E-04<br>2.172E-04 | 9.639E-04<br>1.309E-03 | 4.006E-04<br>6.071E-04                     |
| 327<br>328 | 8.246E-04<br>1.439E-03 | 3.171E-03<br>6.67 <b>0</b> E-03 | 3.860E-04              | 7.267E-04              | 2.929E-04                           | 3.748E-04              | 2.083E-03              | 1.064E-03                                  |
| 329        | 3.567E-03              | 1 876E-02                       | 9.313E-04              | 1.768E-03              | 7.175E-04                           | 9.040E-04              | 4.159E-03              | 2.662E-03                                  |
| 330        | 1.636E-03              | 3.706E-03                       | 4.294E-04              | 8.121E-04              | 3.282E-04                           | 4.169E-04              | 1.926E-03              | 1.219E-03                                  |
| 331        | 1.191E-03              | 2.705E-03                       | 3.140E-04              | 5.924E-04              | 2.389E-04                           | 3.049E-04              | 1.439E-03              | 8.854E-04                                  |
| 332        | 9.407E-04              | 2.072E-03                       | 2.487E-04              | 4.687E-04              | 1.888E-04                           | 2.415E-04              | 1.154E-03              | 6.989E-04                                  |
| 333        | 1.434E-04              | 3.767E-04                       | 3.937E-05              | 7.424E-05              | 3.000E-05                           | 3.822E-05<br>4.434E-05 | 2.636E-04<br>3.083E-04 | 1.051E-04<br>1.218E-04                     |
| 334<br>335 | 1.661E-04<br>1.972E-04 | 4.750E-04<br>6.224E-04          | 4.567E-05<br>5.441E-05 | 8.591E-05<br>1.023E-04 | 3.472E-05<br>4.135E-05              | 5.282E-05              | 3.765E-04              | 1.444E-04                                  |
| 336        | 2.426E-04              | 8.271E-04                       | 6.723E-05              | 1.264E-04              | 5.107E-05                           | 6.527E-05              | 4.793E-04              | 1.773E-04                                  |
| 337        | 3.103E-04              | 1.110E-03                       | 8.643E-05              | 1.625E-04              | 6.571E-05                           | 8.390E-05              | 6.403E-04              | 2.264E-04                                  |
| 338        | 4.172E-04              | 1.554E-03                       | 1.156E-04              | 2.173E-04              | 8.778E-05                           | 1.123E-04              | 8.222E-04              | 3.049E-04                                  |
| 339        | 6.483E-04              | 2.623E-03                       | 1.781E-04              | 3.347E-04              | 1.350E-04                           | 1.729E-04              | 1.181E-03              | 4.752E-04                                  |
| 340        | 1.172E-03              | 6.479E-03                       | 3.179E-04              | 5.981E-04              | 2.412E-04                           | 3.087E-04<br>1.107E-03 | 1.897E-03<br>4.839E-03 | 8.635E-04<br>3.319E-03                     |
| 341<br>342 | 4.427E-03<br>2.156E-03 | 8.766E-03<br>4.719E-03          | 1.141E-03<br>5.650E-04 | 2.181E-03<br>1.069E-03 | 8.917E-04<br>4.325E-04              | 5.485E-04              | 2.515E-03              | 1.607E-03                                  |
| 343        | 1.455E-03              | 3.174E-03                       | 3.836E-04              | 7.236E-04              | 2.917E-04                           | 3.724E-04              | 1.751E-03              | 1.082E-03                                  |
| 344        | 1.086E-03              | 2.375E-03                       | 2.870E-04              | 5.408E-04              | 2.178E-04                           | 2.787E-04              | 1.328E-03              | 8.066E-04                                  |
| 345        | 8.449E-04              | 1.907E-03                       | 2.237E-04              | 4.213E-04              | 1.696E-04                           | 2.173E-04              | 1.045E-03              | 6.275E-04                                  |
| 346        | 1.280E-04              |                                 | 3.644E-05              | 6.862E-05              |                                     | 3.536E-05              | 3.201E-04              | 9.261E-05                                  |
| 347        | 1.450E-04              | 3.831E-04                       | 4.054E-05              | 7.637E-05              |                                     | 3.935E-05<br>4.585E-05 | 3.106E-04<br>3.361E-04 | 1.056E-04<br>1.247E-04                     |
| 348<br>349 | 1.706E-04<br>2.067E-04 |                                 | 4.723E-05<br>5.666E-05 | 8.886E-05<br>1.067E-04 |                                     | 5.501E-05              | 3.738E-04              | 1.516E-04                                  |
| 350        | 2.612E-04              |                                 | 7.111E-05              | 1.340E-04              | 5.415E-05                           |                        | 4.467E-04              | 1.921E-04                                  |
| 351        | 3.495E-04              |                                 | 9.494E-05              | 1.788E-04              | 7.221E-05                           | 9.217E-05              | 5.832E-04              | 2.572E-04                                  |
| 352        | 5.210E-04              | 2.033E-03                       | 1.419E-04              | 2.668E-04              | 1.076E-04                           | 1.377E-04              | 8.779E-04              | 3.831E-04                                  |
| 353        | 8.728E-04              | 4.436E-03                       | 2.393E-04              | 4.491E-04              | 1.810E-04                           |                        | 1.540E-03              | 6.403E-04                                  |
| 354        | 3.090E-03              |                                 | 7.974E-04              | 1.519E-03              |                                     |                        | 3.257E-03<br>1.985E-03 | 2.315E-03<br>1.284E-03                     |
| 355        | 1.722E-03              |                                 | 4.508E-04<br>3.115E-04 | 8.533E-04<br>5.876E-04 |                                     |                        |                        | 8.787E-04                                  |
| 356<br>357 | 1.181E-03<br>8.958E-04 |                                 | 2.369E-04              |                        | 1.797E-04                           | 2.301E-04              |                        | 6.655E-04                                  |
| 358        | 7.250E-04              |                                 | 1.919E-04              |                        |                                     | 1.863E-04              | 8.918E-04              | 5.385E-04                                  |
| 359        | 1.131E-04              | 3.202E-04                       | 3.206E-05              | 6.053E-05              | 5 2.473E-05                         | 3.110E-05              | 2.847E-04              | 8.197E-05                                  |
| 360        | 1.316E-04              |                                 | 3.710E-05              |                        | 5 2.872E-05                         | 3.599E-05              |                        | 9.558E-05                                  |
| 361        | 1.522E-04              |                                 | 4.181E-05              | 7.904E-05              |                                     |                        |                        | 1.116E-04<br>1.360E-04                     |
| 362<br>363 | 1.849E-04<br>2.317E-04 |                                 |                        |                        |                                     |                        |                        |                                            |
| 363        | 2.31/5-0               | - 1.4735-04                     | . G.Z/45-01            | 1.1045-0               | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Va                     |                        | 20. 4. 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |

| 364        | 3.026E-04              | 9.904E-04              | 8.148E-05              | 1.535E-04              | 6.192E-05              | 7.911E-05              | 4.578E-04              | 2.235E-04              |
|------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| 365        | 4.104E-04              | 1.454E-03              | 1.105E-04              | 2.077E-04              | 8.356E-05              | 1.073E-04              | 6.050E-04              | 3.030E-04              |
| 366        | 6.472E-04              | 2.798E-03              | 1.739E-04              | 3.268E-04              | 1.315E-04              | 1.689E-04              | 9.314E-04              | 4.782E-04              |
| 367<br>368 | 1.455E-03<br>4.969E-03 | 9.919E-03<br>2.130E-02 | 3.888E-04<br>1.344E-03 | 7.318E-04<br>2.508E-03 | 2.947E-04<br>1.001E-03 | 3.775E-04<br>1.306E-03 | 2.000E-03<br>6.970E-03 | 1.078E-03              |
| 369        | 3.871E-03              | 9.051E-03              | 1.008E-03              | 1.913E-03              | 7.758E-04              | 9.783E-04              | 4.316E-03              | 3.662E-03<br>2.892E-03 |
| 370        | 2.272E-03              | 5.223E-03              | 5.919E-04              | 1.123E-03              | 4.551E-04              | 5.745E-04              | 2.541E-03              | 1.696E-03              |
| 371<br>372 | 1.439E-03              | 3.388E-03              | 3.768E-04              | 7.132E-04              | 2.885E-04              | 3.658E-04              | 1.661E-03              | 1.073E-03              |
| 373        | 1.008Z-03<br>7.511Z-04 | 2.425E-03<br>1.869E-03 | 2.652E-04<br>2.008E-04 | 5.009E-04<br>3.788E-04 | 2.022E-04<br>1.527E-04 | 2.575E-04<br>1.950E-04 | 1.199E-03<br>9.222E-04 | 7.505E-04<br>5.659E-04 |
| 374        | 6.147E-04              | 1.527E-03              | 1.626E-04              | 3.064E-04              | 1.234E-04              | 1.579E-04              | 7.567E-04              | 4.566E-04              |
| 375        | 1.092E-04              | 2.838E-04              | 3.069E-05              | 5.799E-05              | 2.369E-05              | 2.977E-05              | 2.604E-04              | 7.941E-05              |
| 376<br>377 | 1.273E-04<br>1.508E-04 | 3.353E-04              | 3.569E-05              | 6.745E-05              | 2.754E-05              | 3.463E-05              | 2.975E-04              | 9.265E-05              |
| 378        | 1.7792-04              | 4.084E-04<br>5.061E-04 | 4.199E-05<br>4.819E-05 | 7.951E-05<br>9.097E-05 | 3.244E-05<br>3.681E-05 | 4.074E-05<br>4.678E-05 | 3.339E-04<br>2.937E-04 | 1.100E-04<br>1.311E-04 |
| 379        | 2.246E-04              | 6.399E-04              | 6.068E-05              | 1.142E-04              | 4.602E-05              | 5.892E-05              | 3.479E-04              | 1.657E-04              |
| 380        | 2.869E-04              | 8.199E-04              | 7.778E-05              | 1.459E-04              | 5.864E-05              | 7.5532-05              | 4.461E-04              | 2.113E-04              |
| 381<br>382 | 3.856E-04<br>5.603E-04 | 1.165E-03<br>2.132E-03 | 1.045E-04              | 1.961E-04              | 7.879E-05              | 1.015E-04              | 5.960E-04              | 2.841E-04              |
| 383        | 1.095E-03              | 4.792E-03              | 1.500E-04<br>2.922E-04 | 2.827E-04<br>5.500E-04 | 1.141E-04<br>2.215E-04 | 1.457E-04<br>2.837E-04 | 8.054E-04<br>1.489E-03 | 4.145E-04<br>8.109E-04 |
| 384        | 2.199E-03              | 1.168E-02              | 5.972E-04              | 1.115E-03              | 4.455E-04              | 5.802E-04              | 3.270E-03              | 1.618E-03              |
| 385        | 2.780E-03              | 2.202E-02              | 7.592E-04              | 1.414E-03              | 5.629E-04              | 7.376E-04              | 4.223E-03              | 2.042E-03              |
| 386<br>387 | 3.070E-03<br>2.917E-03 | 2.297E-02              | 8.373E-04              | 1.557E-03              | 6.186E-04              | 8.136Z-04              | 4.487E-03              | 2.256E-03              |
| 388        | 2.424E-03              | 1.110E-02<br>5.900E-03 | 7.851E-04<br>6.415E-04 | 1.467E-03<br>1.208E-03 | 5.859E-04<br>4.862E-04 | 7.627E-04<br>6.229E-04 | 3.934E-03<br>2.982E-03 | 2.154E-03<br>1.800E-03 |
| 389        | 1.793E-03              | 3.940E-03              | 4.721E-04              | 8.913E-04              | 3.596E-04              | 4.584E-04              | 2.137E-03              | 1.335E~03              |
| 390        | 1.269E-03              | 2.789E-03              | 3.342E-04              | 6.309E-04              | 2.546E-04              | 3.245E-04              | 1.514E-03              | 9.446E-04              |
| 391<br>392 | 9.412E-04<br>7.191E-04 | 2.087E-03              | 2.476E-04              | 4.676E-04              | 1.888E-04              | 2.404E-04              | 1.119E-03              | 7.006E-04              |
| 393        | 5.789E-04              | 1.641E-03<br>1.353E-03 | 1.894E-04<br>1.529E-04 | 3.575E-04<br>2.883E-04 | 1.443E-04<br>1.162E-04 | 1.839E-04<br>1.485E-04 | 8.620E-04<br>7.079E-04 | 5.351E-04<br>4.302E-04 |
| 394        | 1.101E-04              | 2.907E-04              | 3.065E-05              | 5.791E-05              | 2.360E-05              | 2.9742-05              | 2.418E-04              | 8.034E-05              |
| 395        | 1.331E-04              | 3.435E-04              | 3.698E-05              | 6.975E-05              | 2.836E-05              | 3.589E-05              | 2.824E-04              | 9.717E-05              |
| 396<br>397 | 1.613E-04<br>1.879E-04 | 3.997E-04              | 4.513E-05              | 8.505E-05              | 3.454E-05              | 4.380E-05              | 3.563E-04              | 1.175E-04              |
| 398        | 2.160E-04              | 4.655E-04<br>5.555E-04 | 5.187E-05<br>5.922E-05 | 9.765E-05<br>1.113E-04 | 3.949E-05<br>4.489E-05 | 5.035E-05<br>5.750E-05 | 3.625E-04<br>3.842E-04 | 1.375E-04<br>1.584E-04 |
| . 399      | 2.560Z-04              | 7.167E-04              | 6.978E-05              | 1.310E-04              | 5.273E-05              | 6.775E-05              | 4.240E-04              | 1.882E-04              |
| 400        | 3.295E-04              | 1.121E-03              | 8.846E-05              | 1.668E-04              | 6.732E-05              | 8.589E-05              | 4.889E-04              | 2.435E-04              |
| 401<br>402 | 4.913E-04<br>8.765E-04 | 1.836E-03              | 1.308E-04<br>2.342E-04 | 2.470E-04              | 9.977E-05              | 1.270E-04              | 6.766E-04              | 3.642E-04              |
| 403        | 1.425E-03              | 3.241E-03<br>5.546E-03 | 3.859E-04              | 4.409E-04<br>7.220E-04 | 1.776E-04<br>2.890E-04 | 2.274E-04<br>3.748E-04 | 1.212E-03<br>2.112E-03 | 6.489E-04<br>1.049E-03 |
| 404        | 1.859E-03              | 8.248E-03              | 5.058E-04              | 9.433E-04              | 3.7622-04              | 4.914E-04              | 2.764E-03              | 1.367E-03              |
| 405        | 2.064E-03              | 8.946E-03              | 5.624E-04              | 1.049E-03              | 4.183E-04              | 5.463E-04              | 3.120E-03              | 1.517E-03              |
| 406<br>407 | 2.017E-03<br>1.758E-03 | 6.972E-03<br>4.733E-03 | 5.424E-04              | 1.015E-03              | 4.060E-04              | 5.269E-04              | 2.748E-03              | 1.490E-03              |
| 408        | 1.411E-03              | 3.325E-03              | 4.686E-04<br>3.731E-04 | 8.800E-04<br>7.032E-04 | 3.532E-04<br>2.833E-04 | 4.551E-04<br>3.623E-04 | 2.267E-03<br>1.732E-03 | 1.302E-03<br>1.049E-03 |
| 409        | 1.105E-03              | 2.446E-03              | 2.923E-04              | 5.507E-04              | 2.217E-04              | 2.839E-04              | 1.364E-03              | 8.204E-04              |
| 410        | 8.770E-04              | 1.932E-03              | 2.319E-04              | 4.371E-04              | 1.761E-04              | 2.252E-04              | 1.081E-03              | 6.516E-04              |
| 411<br>412 | 7.023E-04<br>5.596E-04 | 1.576E-03              | 1.853E-04              | 3.496E-04              | 1.409E-04              | 1.799E-04              | 8.521E-04              | 5.222E-04              |
| 413        | 1.8742-04              | 1.282E-03<br>5.286E-04 | 1.478E-04<br>5.175E-05 | 2.787E-04<br>9.738E-05 | 1.123E-04<br>3.933E-05 | 1.435E-04<br>5.024E-05 | 6.819E-04<br>3.581E-04 | 4.160E-04<br>1.371E-04 |
| 414        | 1.637E-04              | 4.906E-04              | 4.480E-05              | 8.443E-05              | 3.413E-05              | 4.349E-05              | 2.933E-04              | 1.202E-04              |
| 415        | 1.528E-04              | 4.792E-04              | 4.134E-05              | 7.844E-05              | 3.194E-05              | 4.012E-05              | 2.663E-04              | 1.126E-04              |
| 416<br>417 | 2.239E-04<br>2.050E-04 | 7.167E-04              | 6.053E-05              | 1.141E-04              | 4.609E-05              | 5.877E-05              | 3.561E-04              | 1.651E-04              |
| 418        | 2.126E-04              | 6.604E-04<br>5.827E-04 | 5.487E-05<br>5.712E-05 | 1.041E-04<br>1.080E-04 | 4.232E-05<br>4.380E-05 | 5.325E-05<br>5.544E-05 | 3.185E-04<br>3.339E-04 | 1.517E-04<br>1.571E-04 |
| 419        | 2.930E-04              | 9.782E-04              | 7.796E-05              | 1.476E-04              | 5.985E-05              | 7.568E-05              | 4.164E-04              | 2.173E-04              |
| 420        | 3.004E-04              | 8.545E-04              | 8.080E-05              | 1.522E-04              | 6.142E-05              | 7.845E+05              | 4.522E-04              | 2.219E-04              |
| 421<br>422 | 2.815E-04<br>4.533E-04 | 8.010E-04<br>1.513E-03 | 7.658E-05              | 1.441E-04              | 5.815E-05              | 7.435E-05              | 4.710E-04              | 2.071E-04              |
| 423        | 4.152E-04              | 1.342E-03              | 1.216E-04<br>1.117E-04 | 2.289E-04<br>2.104E-04 | 9.222E-05<br>8.481E-05 | 1.181E-04<br>1.084E-04 | 6.530E-04<br>6.185E-04 | 3.352E-04<br>3.067E-04 |
| 424        | 3.893E-04              | 1.200E-03              | 1.051E-04              | 1.978E-04              | 7.970E-05              | 1.021E-04              | 5.997E-04              | 2.871E-04              |
| 425        | 7.327E-04              | 2.461E-03              | 1.966E-04              | 3.698E-04              | 1.488E-04              | 1.910E-04              | 1.048E-03              | 5.416E-04              |
| 426<br>427 | 6.383E-04<br>5.722E-04 | 2.021E-03<br>1.760E-03 | 1.720E-04              | 3.230E-04<br>2.899E-04 | 1.298E-04              | 1.670E-04              | 9.390E-04              | 4.711E-04              |
| 428        | 1.090E-03              | 3.735E-03              | 1.543E-04<br>2.948E-04 | 5.519E-04              | 1.167E-04<br>2.211E-04 | 1.498E-04<br>2.863E-04 | 8.561E-04<br>1.605E-03 | 4.223E-04<br>8.030E-04 |
| 429        | 8.920E-04              | 2.834E-03              | 2.409E-04              | 4.516E-04              | 1.812E-04              | 2.339E-04              | 1.311E-03              | 6.578E-04              |
| 430        | 7.512E-04              | 2.238E-03              | 2.029E-04              | 3.806E-04              | 1.527E-04              | 1.971E-04              | 1.113E-03              | 5.539E-04              |
| 431<br>432 | 1.365E-03<br>1.053E-03 | 5.088E-03<br>3.550E-03 | 3.705E-04<br>2.857E-04 | 6.918E-04<br>5.338E-04 | 2.76ZE-04<br>2.133E-04 | 3.599E-04<br>2.775E-04 | 2.010E-03              | 1.005E-03              |
| 433        | 8.520E-04              | 2.685E-03              | 2.312E-04              | 4.321E-04              | 1.727E-04              | 2.7/3E-04<br>2.246E-04 | 1.561E-03<br>1.266E-03 | 7.748E-04<br>6.272E-04 |
| 434        | 1.496E-03              | 5.392E-03              | 4.058E-04              | 7.583E-04              | 3.032E-04              | 3.942E-04              | 2.224E-03              | 1.101E-03              |
| 435        | 1.152E-03              | 3.809E-03              | 3.114E-04              | 5.825E-04              | 2.332E-04              | 3.024E-04              | 1.660E-03              | 8.497E-04              |
| 436<br>437 | 9.206E-04              | 2.896E-03              | 2.481E-04              | 4.646E-04              | 1.861E-04              | 2.410E-04              | 1.302E-03              | 6.794E-04              |
| 438        | 1.505E-03<br>1.165E-03 | 4.736E-03<br>3.439E-03 | 4.055E-04<br>3.137E-04 | 7.501E-04<br>5.887E-04 | 3.048E-04<br>2.365E-04 | 3.938E-04<br>3.046E-04 | 2.154E-03<br>1.681E-03 | 1.111E-03<br>8.605E-04 |
| 439        | 9.339E-04              | 2.673E-03              | 2.506E-04              | 4.707E-04              | 1.892E-04              | 2.434E-04              | 1.315E-03              | 6.903E-04              |
| 440        | 1.357E-03              | 3.727E-03              | 3.635E-04              | 6.320E-04              | 2.736E-04              | 3.531E-04              | 1.836E-03              | 1.004E-03              |
| 441        | 1.096E-03              | 2.977E-03              | 2.951E-04              | 5.536E-04              | 2.223E-04              | 2.865E-04              | 1.577E-03              | 8.090E-04              |
| 442<br>443 | 9.054E-04<br>1.144E-03 | 2.425E-03<br>2.923E-03 | 2.438E-04<br>3.058E-04 | 4.575E-04<br>5.761E-04 | 1.838E-04<br>2.322E-04 | 2.368E-04<br>2.969E-04 | 1.311E-03              | 6.684E-04              |
| 444        | 9.607E-04              | 2.470E-03              | 2.591E-04              | 4.875E-04              | 1.964E-04              | 2.516E-04              | 1.590E-03<br>1.459E-03 | 8.471E-04<br>7.089E-04 |
| 445        | 8.135E-04              | 2.044E-03              | 2.184E-04              | 4.100E-04              | 1.646E-04              | 2.121E-04              | 1.140E-03              | 6.012E-04              |
| 446<br>447 | 9.487E-04              | 2.258E-03              | 2.518E-04              | 4.743E-04              | 1.910E-04              | 2.445E-04              | 1.215E-03              | 7.040E-04              |
| 448        | 8.100E-04<br>7.031E-04 | 2.039E-03<br>1.781E-03 | 2.147E-04<br>1.871E-04 | 4.045E-04<br>3.522E-04 | 1.629E-04<br>1.418E-04 | 2.085E-04              | 1.023E-03<br>9.216E-04 | 6.013E-04              |
| 449        | 7.831E-04              | 1.778E-03              | 2.078E-04              | 3.910E-04              | 1.572E-04              | 1.817E-04<br>2.018E-04 | 9.2162-04<br>9.829E-04 | 5.213E-04<br>5.811E-04 |
| 450        | 6.862E-04              | 1.657E-03              | 1.822E-04              | 3.428E-04              | 1.379E-04              | 1.770E-04              | 8.687E-04              | 5.090E-04              |
| 451        | 6.080 <b>E-</b> 04     | 1.526E-03              | 1.614E-04              | 3.040E-04              | 1.224E-04              | 1.567E-04              | 7.784E-04              | 4.511E-04              |
|            |                        |                        |                        |                        |                        |                        |                        |                        |

RECEPTOR # 87 HAS HIGHEST CHRONIC HAZARD INDEX OF 5.163E-02

#### \*\*\* CHRONIC HAZARD INDEX BY POLLUTANT FOR PEAK RECEPTOR # 87 \*\*\*

| POLLUTANT                                                                        | ORAL DOSE (mg/kg-d)                                                                                                                                                                                                                    | BACKGR<br>(ug/m3)                                                                                                                                                                                                         | AEL<br>(ug/m3)                                                                                                                                                                                                            | CA                                                                                                                                                                                                                        | CXS                                                                                                                                                                                                                       | IMMIN                                                                                                                                                                                                                     | KIDN                                                                                                                                                                                                                      | LIVER                                                                                                                                                                                                                     | REPRO                                                                                                                                                                                                        | RESP                                                                                                                                                                                                                      | SKIN                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACETA ACROL AS BENZE BC Cd Cr Cu HCHO HCHO HCN Fb Mn Hg Hg NAPTH Se TOL XYLEN Zn | 0.000E+00<br>0.000E+00<br>1.000E-03<br>0.000E-03<br>5.000E-03<br>5.000E-03<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 9.000E+00<br>2.000E-02<br>5.000E-01<br>7.100E+01<br>4.800E-03<br>3.500E+00<br>2.000E+03<br>7.000E+01<br>1.500E+00<br>4.000E-01<br>2.400E-01<br>1.400E+01<br>1.000E+02<br>3.000E+02<br>3.000E+02<br>3.000E+02<br>3.000E+02 | 0.000E+00<br>0.000E+00<br>2.769E-03<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>4.734E-02<br>9.425E-04<br>5.829E-04<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>1.240E-04<br>7.480E-04<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>7.480E-04<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>4.882E-04<br>0.000E+00<br>2.546E-03<br>7.449E-04<br>8.557E-06<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>2.769E-03<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 |
|                                                                                  |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                           | SUM =                                                                                                                                                                                                                     | 3.713E-03                                                                                                                                                                                                                 | 5.163E-02                                                                                                                                                                                                                 | 9.710E-04                                                                                                                                                                                                                 | 1.843E-03                                                                                                                                                                                                                 | 7.480E-04                                                                                                                                                                                                                 | 9.425E-04                                                                                                                                                                                                    | 4.423E-03                                                                                                                                                                                                                 | 2.769E-03                                                                                                                                                                                                    |

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET, TSP \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Fage - 158

\*\*\* CHRONIC HAZARD INDEX BY SOURCE FOR PEAK RECEPTOR # 87 \*\*\*

# POLLUTANT ACETA ACCEPTABLE EXPOSURE LEVEL (ug/m3) = 9.000E+00 BACKG. (ug/m3) = 0.000E+00 GRAL DOSE (mg/kg-d) = 0.000E+00

|          |          | CA                     | CXS                    | D-MUN                  | KIDH                   | LIVER                  | REFRO                  | RESP                   | SKIN                   |
|----------|----------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| SOURCE # | 1        | 0.000E+00              |
| SOURCE # | 2        | 0.000E+00              |
| SOURCE # | 3        | 0.000E+00              |
| SOURCE # | 4        | 0.000E+00              |
| SOURCE # | 5        | 0.000E+00              |
| SOURCE # | 6        | 0.000E+00              |
| SOURCE 🛊 | 7        | 0.000E+00              |
| SOURCE # | 8        | 0.000E+00              |
| SOURCE # | 9        | 0.000E+00              |
| SOURCE # | 10       | 0.000E+00              |
| SOURCE # | 11       | 0.000E+00              |
| SOURCE # | 12       | 0.300E+00              | 0.000E+00              |
| SOURCE # | 13       | 0.000E+00              |
| SOURCE # | 14       | 0.000E+00              |
| SOURCE # | 15       | 0.000E+00              |
| SOURCE # | 16       | 0.000E+00              |
| SOURCE # | 17       | 0.000E+00              |
| SOURCE # | 18       | 0.000E+00              |
| SOURCE # | 19<br>20 | 0.000E+00              |
| SOURCE # | 21       | 0.000E+00              |
| SOURCE # | 22       | 0.000E+00              |
| SOURCE # | 23       | 0.000E+00              |
| SOURCE # | 24       | 0.000E+00              |
| SOURCE # | 25       | 0.000E+00<br>0.000E+00 |
| SOURCE # | 26       | 0.000E+00              | 0.000E+00              |                        | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              |                        |
| SOURCE # | 25<br>27 | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 |
| SOURCE # | 28       | 0.000E+00              |
| SOURCE # | 29       | 0.000E+00              |
| SOURCE # | 30       | 0.000E+00              |
| SCURCE # | 31       | 0.000E+00              |
| SOURCE # | 32       | 0.000E+00              |
| SOURCE # | 33       | 0.000E+00              | 0_000E+00              |
| SOURCE # | 34       | 0.000E+00              |
| SOURCE # | 35       | 0.000E+00              |
| SOURCE # | 36       | 0.000E+00              | 0_000E+00              |
| SOURCE # | 37       | 0.000E+00              |
| SOURCE # | 38       | 0.000E+00              |
| SOURCE # | 39       | 0.000E+00              |
| SOURCE # | 40       | 0.000E+00              |
| Source + | 41       | 0.000E+00              |
| SOURCE # | 42       | 0.000E+00              |
| SOURCE # | 43       | 0.000E+00              |
| Source # | 44       | 0.000E+00              |
| SOURCE # | 45       | 0.000E+00              |
| SOURCE # | 46       | 0.000E+00              |
|          | SUM =    | 0.000E+00              |

|          |          | CA        | CSIS      | <b>P</b> MUN | KIDN      | LIVER              | REPRO     | RESP      | SKIN      |  |
|----------|----------|-----------|-----------|--------------|-----------|--------------------|-----------|-----------|-----------|--|
| SOURCE # | 1        | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.0002+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 2        | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 3        | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.0000+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 4        | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 5        | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 |           |  |
| SOURCE # | 6        | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.0002+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 7        | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 |           | 0.000E+00 |  |
| SOURCE # | 8        | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | ġ        | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 10       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | īī       | 0.0002+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          |           | 0.0002+00 | 0.000E+00 |  |
| SOURCE # | 12       | 0.0002+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 |                    | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 13       | 0.000E+00 | 0.0002+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 14       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 15       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 16       | 0.000E+00 | 0.000E+00 | 0.000E+00    |           | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 17       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 18       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE   | 19       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 20       | 0.000E+00 | 0.000E+00 |              | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.0002+00 |  |
| SOURCE   | 21       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 22       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 23       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 24       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 25       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE   | 26       | 0.000E+00 |           | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 27       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 28       |           | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 29<br>29 | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 30       | 0.000E+00 | 0.0002+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 31       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 32       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # |          | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
|          | 33       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | G.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 34       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000 <b>E+</b> 00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
|          | 35       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 36       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 37       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 38       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 39       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 40       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 41       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0:000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 42       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 43       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 44       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 45       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| SOURCE # | 46       | 0.000E+00 | 0.000E+00 | 0.000E+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |
| •        | SUM =    | 0.000E+00 | 0.000E+00 | 0.0002+00    | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |  |

POLLUTANT AS ACCEPTABLE EXPOSURE LEVEL (ug/m3) = 5.000E-01 BACKG. (ug/m3) = 0.000E+00 ORAL DOSE (mg/kg-d) = 1.000E-03

|          |          | CA                     | C3IS                   | In sun                 | KIDN      | LIVER     | REPRO     | RESP                   | SKIN                   |
|----------|----------|------------------------|------------------------|------------------------|-----------|-----------|-----------|------------------------|------------------------|
| SOURCE # | 1        | 1.339E-05              | 1.339E-05              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2 2608-00              |                        |
| SOURCE # | Ž        | 8.911E-06              | 8.911E-06              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.359E-06<br>1.570E-06 | 1.339E-05              |
| SOURCE # | 3        | 1.071E-05              | 1.071E-05              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.886E-06              | 8.911E-06<br>1.071E-05 |
| SOURCE # | 4        | 1.541E-05              | 1.541E-05              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.714E-06              | 1.541E-05              |
| SOURCE # | 5        | 2.170E-06              | 2.170E-06              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 3.822E-07              | 2.170E-06              |
| SOURCE # | 6        | 3.784E-06              | 3.784E-06              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 6.664E-07              | 3.784E-06              |
| SOURCE # | 7        | 1.174E-06              | 1.174E-06              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.067E-07              | 1.174E-06              |
| Source # | 8        | 1.761E-06              | 1.761E-06              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 3.102E-07              | 1.761E-06              |
| SOURCE # | 9        | 1.698 <b>2-</b> 06     | 1.698E-06              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.991E-07              | 1.698E-06              |
| Source # | 10       | 1.887E-06              | 1.887E-06              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 3.324E-07              | 1.887E-06              |
| SOURCE # | 11       | 5.635E-07              | 5.635E-07              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 9.925E-08              | 5.635E-07              |
| SOURCE # | 12       | 5.918E-07              | 5.918E-07              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.042E-07              | 5.918E-07              |
| SOURCE # | 13       | 1.865E-04              | 1.865E-04              | 0.000E+00              | 0.00GE+00 | 0.000E+00 | 0.000E+00 | 3.286E-05              | 1.865E-04              |
| SOURCE # | 14       | 1.246E-04              | 1.246E-04              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.195E-05              | 1.246E-04              |
| SOURCE # | 15       | 1.545E-04              | 1.545E-04              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.721E-05              | 1.545E-04              |
| SOURCE # | 16       | 2.192E-04              | 2.192E-04              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 3.861E-05              | 2.192E-04              |
| SOURCE # | 17       | 3.104E-05              | 3.104E-05              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 5.467E-06              | 3.104E-05              |
| SOURCE # | 18       | 5.306E-05              | 5.306E-05              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 9.347E-06              | 5.306E-05              |
| SOURCE # | 19       | 1.220E-04              | 1.220E-04              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.148E-05              | 1.220E-04              |
|          | 20       | 8.269E-05              | 8.269E-05              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.457E-05              | 8.269E-05              |
| SOURCE # | 21       | 8.175E-05              | 8.175E-05              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.440E-05              | 8.175E-05              |
| SOURCE # | 22       | 1.271E-04              | 1.271E-04              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.239E-05              | 1.271E-04              |
|          | 23<br>24 | 1.926E-05              | 1.926E-05              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 3.392E-06              | 1.926E-05              |
| SOURCE # |          | 3.554E-05              | 3.554E-05              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 6.260E-06              | 3.554E-05              |
| SOURCE # | 25<br>26 | 8.136E-06              | 8.136E-06              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.834E-06              | 8.136E-06              |
| SOURCE # | 27       | 5.701E-04              | 5.701E-04              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.004E-04              | 5.701E-04              |
| SOURCE # | 28       | 3.391E-04<br>2.978E-05 | 3.391E-04              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 5.972E-05              | 3.391E-04              |
| SOURCE # | 29       | 3.074Z-05              | 2.978E-05              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 5.245E-06              | 2.978E-05              |
| SOURCE # | 30       | 4.807E-05              | 3.074E-05<br>4.807E-05 | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 5.414E-06              | 3.074E-05              |
| SOURCE # | 31       | 1.014E-04              | 1.014E-04              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 8.468E-06              | 4.807E-05              |
| SOURCE # | 32       | 5.940E-05              | 5.940E-05              | 0.000E+00<br>0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.787E-05              | 1.014E-04              |
| SOURCE # | 33       | 5.486Z-06              | 5.486E-06              |                        | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.0462-05              | 5.940E-05              |
| SOURCE # | 34       | 5.697E-06              | 5.697E-06              | 0.000E+00<br>0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 9.663E-07              | 5.486E-06              |
| SOURCE # | 35       | 8.977E-06              | 8.977E-06              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.003E-06              | 5.697E-06              |
| SOURCE # | 36       | 1.474E-04              | 1.474E-04              | 0.000E+00              | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.581E-06              | 8.977E-06              |
| SOURCE # | 37       | 8.550E-05              | 8.550E-05              | 0.000E+00              | 0.0002+00 | 0.000E+00 | 0.000E+00 | 2.597E-05              | 1.474E-04              |
|          | •        | 0.3302-03              | 0.3302-03              | U. UUUETUU             | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.506E-05              | 8.550E-05              |

| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46                               | 8.175E-06<br>8.525E-06<br>1.351E-05<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8.175E-06<br>8.525E-06<br>1.351E-05<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.440Z-06<br>1.502Z-06<br>2.380Z-06<br>0.000Z+00<br>0.000Z+00<br>0.000Z+00<br>0.000Z+00<br>0.000Z+00<br>0.000Z+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8.175E-06<br>8.525E-06<br>1.351E-05<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>2.769E-03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| POLLU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TANT BENZE                                                                       | ACCEPTABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EXPOSURE LE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | VEL (ug/m3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | = 7.100E+01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BACKG. (ug/m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3) = 0.000E+                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 00 ORAL DOSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (mg/kg-d) =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _                                                                                | CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | IM-IUN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | KIDN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LIVER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | REFRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | RESP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SKIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |
| SOURCE + SOU | 123456789011234516789012222456789012333456789044234456                           | 0.000E+00 | Q.QOE+OO | 0.000E+00 | 0.002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 0.0002+00 | 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 | 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.0002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.0002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.0002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.0002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 0.002+00 | 0.000E+00 | 0.000E+00 |             |
| POLI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SUM =<br>UTANT Be                                                                | G.OGOE+OO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>= 4.800E-03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | E (mg/kg-d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | = 5.000E-03 |
| ***                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                  | CA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DAMUN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | KIDH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LIVER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | REFRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | RESP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SKIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |
| SOURCE SO | 2 3 4 5 6 7 8 9 10 112 13 14 15 16 17 18 9 19 19 19 19 19 19 19 19 19 19 19 19 1 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.364E-05<br>2.239E-05<br>2.690E-05<br>3.872E-06<br>9.505E-06<br>4.461E-06<br>4.303E-06<br>4.780E-06<br>1.427E-06<br>4.687E-04<br>3.130E-04<br>3.130E-04<br>3.130E-04<br>5.507E-04<br>7.797E-05<br>1.333E-06<br>5.562E-06<br>5.498E-06<br>8.548E-06                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                         |             |

| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 25<br>26<br>27<br>28<br>30<br>31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.480E-04 3.833E-05 2.281E-05 2.003E-06 2.068E-06 3.233E-06 6.822E-06 3.995E-06 3.689E-07 9.914E-06 5.751E-06 5.497E-07 5.735E-07 9.085E-07 9.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                   | C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00<br>C.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| POLLU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TANT Cd                                                                                                                    | ACCEPTABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | E EXPOSURE LE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | VEL (ug/m3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | - 3.500E+00                                                                                                                                                                                                                                                                                                                                                                                                               | BACKG. (ug/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3) = 0.000E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 00 ORAL DOSE                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (mg/kg-d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | - 1.000E-03 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            | CV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IMMUN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | KIDN                                                                                                                                                                                                                                                                                                                                                                                                                      | LIVER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | REPRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | RESP                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SKIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |
| SOURCE # SOU | 123456789101121341567189221223455678903333455678904014234456                                                               | 0.000E+00 | 0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 5.958E-07 4.765E-07 4.765E-07 6.858E-07 9.657E-08 1.684E-07 5.283E-08 7.556E-08 8.301E-08 2.507E-08 2.507E-08 2.507E-08 2.507E-08 2.507E-08 2.507E-08 2.507E-08 2.507E-08 2.507E-08 2.503E-06 6.873E-06 6.873E-06 2.361E-06 3.692E-06 3.692E-06 3.692E-06 2.363E-07 2.545E-05 1.330E-06 2.369E-07 2.545E-07 2.545E-07 2.545E-07 2.545E-07 2.545E-07 2.545E-07 3.808E-07 3.808E-07 3.808E-07 3.808E-07 3.808E-07 3.808E-07 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00 | 1.21E-08 8.059E-09 9.686E-09 9.686E-09 1.394E-09 1.394E-09 1.394E-09 1.592E-09 1.592E-09 1.592E-09 1.592E-09 1.707E-09 5.35E-07 1.397E-07 1.748E-08 4.800E-08 4.800E-08 4.153E-08 1.415E-08 5.173E-07 2.703E-08 1.415E-08 9.206E-08 4.980E-09 9.216E-08 9.206E-08 9.206E-08 9.206E-08 9.206E-09 0.000E+00 0.000E+00 0.000E+00 0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 |             |
| COURSE P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SUM =                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.240E-04                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.546E-06                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |
| POLILU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | TANT Cr                                                                                                                    | ACCEPTABI:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | E EXPOSURE II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EVEL (112/m3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | = 2,000F-03                                                                                                                                                                                                                                                                                                                                                                                                               | BACKG. (110/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | m3) = 0.000F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | +00 ORAL DOSE                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (mg/kg-d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | = 5.000E-03 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10                                                                            | CV<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | XIDN 3.849E-06 2.561E-06 3.078E-06 4.430E-06 6.238E-07 1.088E-06 3.377E-07 5.066E-07 4.885E-07 1.621E-07                                                                                                                                                                                                                                                                                                                  | 3.849E-06<br>2.561E-06<br>3.078E-06<br>4.430E-06<br>6.238E-07<br>1.088E-06<br>3.377E-07<br>5.066E-07<br>4.885E-07<br>1.621E-07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | REFRO<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.832E-06<br>2.550E-06<br>3.065E-06<br>4.412E-06<br>6.211E-07<br>1.083E-06<br>3.362E-07<br>5.045E-07<br>4.864E-07<br>5.405E-07                                                                                                                                                                                                                                                                                                                                            | SKIN<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |

Page 84

| SCURCE # | 12    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.702E-07 | 1.702E-07          | 0.000E+00 | 1.695E-07 | 0.00CE+00 |
|----------|-------|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|
| Source # | 13    | 0.000E+Q0 | 0.000E+00 | 0.000E+00 | 5.362E-05 | 5.362E-05          | 0.000E+00 | 5.339E-05 | 0.000E+00 |
| Source # | 14    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 3.581E-05 | 3.581E-05          | 0.000E+00 | 3.566E-05 | 0.000E+00 |
| SCURCE # | 15    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 4.440E-05 | 4.440E-05          | 0.000E+00 | 4.421E-05 | 0.000E+00 |
| SOURCE # | 16    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 6.301E-05 | 6.301E-05          | 0.000E+00 | 6.275E-05 | 0.000E+00 |
| SOURCE # | 17    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 8.921E-06 | 8.921E-06          | 0.000E+00 | 8.883E-06 | 0.000E+00 |
| Source # | 18    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.525E-05 | 1.525E-05          | 0.000E+00 | 1.519E-05 | 0.000E+00 |
| SOURCE # | 19    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 3.163E-05 | 3.163E-05          | 0.000E+00 | 3.150E-05 | 0.000E+00 |
| SOURCE # | 20    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.145E-05 | 2.145E-05          | 0.000E+00 | 2.136E-05 | 0.000E+00 |
| SOURCE # | 21    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.120E-05 | 2.120E-05          | 0.000E+00 | 2.111E-05 | 0.000E+00 |
| SOURCE # | 22    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 3.296E-05 | 3.296E-05          | 0.000E+00 | 3.282E-05 | 0.000E+00 |
| SOURCE # | 23    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 4.994Z-06 | 4.994E-06          | 0.000E+00 | 4.973E-06 | 0.000E+00 |
| SOURCE # | 24    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 9.215E-06 | 9.215E-06          | 0.000E+00 | 9.177E-06 | 0.000E+00 |
| SOURCE # | 25    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 8.133E-06 | 8.133E-06          | 0.000E+00 | 8.120E-06 | 0.000E+00 |
| SOURCE # | 26    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.478E-04 | 1.478E-04          | 0.000E+00 | 1.472E-04 | 0.000E+00 |
| SOURCE # | 27    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 8.796E-05 | 8.796E-05          | 0.000E+00 | 8.759E-05 | 0.000E+00 |
| SOURCE # | 28    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 7.723E-06 | 7.723E-06          | 0.000E+00 | 7.691E-06 | 0.000E+00 |
| SOURCE # | 29    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 7.973E-06 | 7.973E-06          | 0.000E+00 | 7.940E-06 | 0.000E+00 |
| Source # | 30    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.247E-05 | 1.247E-05          | 0.000E+00 | 1.241E-05 | 0.000E+00 |
| Source 🛊 | 31    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.630E-05 | 2.630E-05          | 0.000E+00 | 2.619E-05 | 0.000E+00 |
| SOURCE # | 32    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.541E-05 | 1.541E-05          | 0.000E+00 | 1.534E-05 | 0.000E+00 |
| SOURCE # | 33    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.423E-06 | 1.423E-06          | 0.000E+00 | 1.417E-06 | 0.000E+00 |
| Source # | 34    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.478E-06 | 1.478E-06          | 0.000E+00 | 1.472E-06 | 0.000E+00 |
| Source # | 35    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.328E-06 | 2.328E-06          | 0.000E+00 | 2.318E-06 | 0.000E+00 |
| Source # | 36    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 3.823E-05 | 3.8 <b>23</b> 2-05 | 0.000E+00 | 3.807E-05 | 0.000E+00 |
| Source 🖸 | 37    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.217E-05 | 2.217E-05          | 0.000E+00 | 2.208E-05 | 0.000E+00 |
| Source # | 38    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.120E-06 | 2.120E-06          | 0.000E+00 | 2.112E-06 | 0.000E+00 |
| Source # | 39    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.211E-06 | 2.211E-06          | 0.000E+00 | 2.202E-06 | 0.000E+00 |
| SOURCE # | 40    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 3.504E-06 | 3.504Z-06          | 0.000E+00 | 3.490E-06 | 0.000E+00 |
| SOURCE # | 41    | 0.000E+00 | 0.900E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| SOURCE # | 42    | 0.000E+00 | 0.900E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| SOURCE # | 43    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| SOURCE # | 44    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.0002+00 | 0.000E+00 |
| SOURCE # | 45    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 4.752E-07 | 4.752E-07          | 0.000E+00 | 4.744E-07 | 0.000E+00 |
| Source # | 46    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00          | 0.000E+00 | 0.000E+00 | 0.000E+00 |
| • •      | SUM - | 0.000E+00 | 0.000E+00 | 0.000E+00 | 7.480E-04 | 7.480E-04          | 0.000E+00 | 7.449E-04 | 0.000E+00 |

FOLLUTANT Cu ACCEPTABLE EXPOSURE LEVEL (ug/m3) = 2.400E+00 BACKG. (ug/m3) = 0.000E+00 ORAL DOSE (mg/kg-d) = 0.000E+00

|          |       | CA        | CXS       | IMMUN     | KIDN      | LIVER     | REPRO     | RESP      | SKIN      |
|----------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| SOURCE # | 1     | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 4.135E-08 | 0.000E+00 |
| SOURCE # | Ž     | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.752E-08 | 0.000E+00 |
| SOURCE # | 3     | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 3.307E-08 | 0.000E+00 |
| SOURCE # | 4     | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 4.761E-08 | 0.000E+00 |
| SOURCE # | 5     | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 6.701E-09 | 0.000E+00 |
| SOURCE # | 6     | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.168E-08 | 0.000E+00 |
| SOURCE # | 7     | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 3.624E-09 | 0.000E+00 |
| SOURCE # | 8     | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 5.437E-09 | 0.000E+00 |
| SOURCE # | 9     | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 5.245E-09 | 0.000E+00 |
| SOURCE # | 1Ó    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 5.826E-09 | 0.000E+00 |
| SOURCE # | ii    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.740E-09 | 0.000E+00 |
| SOURCE # | 12    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.827E-09 | 0.000E+00 |
| SOURCE # | 13    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 5.760E-07 | 0.000E+00 |
| SOURCZ # | 14    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 3.848E-07 | 0.000E+00 |
| SOURCE # | 15    |           |           |           |           |           | 0.000E+00 | 4.769E-07 | 0.000E+00 |
| SOURCE # | 16    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 6.770E-07 | 0.000E+00 |
| SOURCE # |       | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |           | 9.584E-08 | 0.000E+00 |
|          | 17    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |           |           |
| SOURCE # | 18    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.638E-07 | 0.0002+00 |
| SOURCE # | 19    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 3.753E-07 | 0.000E+00 |
| SOURCE # | 20    | 0.000E+00 | 0.000E+00 | 0.000E+00 | G.000E+00 | 0.0002+00 | 0.000E+00 | 2.545E-07 | 0.000E+00 |
| SOURCE # | 21    | 0.000E+00 | 0.0002+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.515E-07 | 0.000E+00 |
| SOURCE # | 22    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.00CE+00 | 0.000E+00 | 3.911E-07 | 0.000E+00 |
| SOURCE # | 23    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 5.927E-08 | 0.000E+00 |
| SOURCE # | 24    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.094E-07 | 0.000E+00 |
| SOURCE # | 25    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | C.000E+00 | 5.098E-08 | 0.000E+00 |
| SOURCE # | 26    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.754E-06 | 0.000E+00 |
| SOURCE # | 27    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.044E-06 | 0.000E+00 |
| SOURCE # | 28    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 9.165E-08 | 0.000E+00 |
| SOURCE # | 29    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 9.464E-08 | 0.000E+00 |
| SCURCE # | 30    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.479E-07 | 0.000E+00 |
| SOURCE # | 31    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 3.122E-07 | 0.000E+00 |
| SOURCE # | 32    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.800E+00 | 1.829E-07 | 0.000E+00 |
| SOURCE # | 33    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.689E-08 | 0.000E+00 |
| SOURCE # | 34    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 1.753E-08 | 0.000E+00 |
| SOURCE # | 35    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.763E-08 | 0.000E+00 |
| SOURCE # | 36    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 4.537E-07 | 0.000E+00 |
| SOURCE # | 37    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.631E-07 | 0.000E+00 |
| SCURCE # | 38    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.516E-08 | 0.000E+00 |
| SOURCE # | 39    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 2.624E-08 | 0.000E+00 |
| SOURCE # | 40    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 4.158E-08 | 0.000E+00 |
| SOURCE # | 41    | 0.000E+00 |
| SOURCE # | 42    | 0.000E+00 |
| SOURCE # | 43    | 0.000E+00 |
| SOURCE # | 44    |           |           |           | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
|          | 45    | 0.000E+00 | 0.000E+00 | 0.000E+00 |           | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 |
|          | 43    | 0.000E+00 |
| SOURCE # | 40    | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.0002700 | U.UUUETUU | 9.000ETUU | 0.0005700 |
|          | SUM = | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00 | 8.557E-06 | 0.000E+00 |
|          |       |           |           |           |           |           |           |           |           |

POLLUTANT HCHO ACCEPTABLE EXPOSURE LEVEL (ug/m3) = 3.600E+00 BACKG. (ug/m3) = 0.000E+00 ORAL DOSE (mg/kg-d) = 0.000E+00

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                              | CV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IMMUN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | KIDN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LIVER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | REPRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RESP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | skin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 2                                                                                                                          | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8 9                                                                                                                          | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10<br>11                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12<br>13                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Q.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 14<br>15                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | •           |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 16                                                                                                                           | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 17<br>18                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 19<br>20                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 21<br>22                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 23<br>24                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 25<br>26                                                                                                                     | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 27                                                                                                                           | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 28<br>29                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 30<br>31                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 32<br>33                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 34<br>35                                                                                                                     | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36                                                                                                                           | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 37<br>38                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 39<br>40                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 41<br>42                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 43<br>44                                                                                                                     | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 45                                                                                                                           | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 46                                                                                                                           | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SUM =                                                                                                                        | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.900E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |
| POLLU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SUM =                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>E EXPOSURE L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | - 0.000E+00 |
| POLLU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TANT HCN                                                                                                                     | ACCEPTABLI<br>CV<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | E EXPOSURE L  CNS 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EVEL (ug/m3)  IMMUN  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | = 7.000E+01  KIDN 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BACKG. (ug/r<br>LIVER<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | REPRO<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | RESP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00<br>(mg/kg-d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | - 0.000E+00 |
| SOURCE #<br>SOURCE #<br>SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TANT HCN  1 2 3                                                                                                              | ACCEPTABLI<br>CV<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CNS 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | IMMUN 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | - 7.000E+01  KIDN 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BACKG. (ug/r                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | n3) = 0.000E-<br>REPRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | +00 ORAL DOSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00<br>E (mg/kg-d) :<br>SKIN<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - 0.000E+00 |
| SOURCE # SOURCE # SOURCE # SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TANT HCN  1 2 3 4 5                                                                                                          | ACCEPTABLI<br>CV<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CNS 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IPMUN 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | - 7.000E+01  KIDN  0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LIVER 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | REFRO  0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RESP<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.000E+00  E (mg/kg-d)  SKIN  0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | - 0.000E+00 |
| SOURCE # SOURCE # SOURCE # SOURCE # SOURCE # SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TANT HCN  1 2 3 4                                                                                                            | ACCEPTABLI  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CNS 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | IMMUN 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | = 7.000E+01  **EDN** 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LIVER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | REPRO<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RESP 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SKIN<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1<br>2<br>3<br>4<br>5<br>6<br>7                                                                                              | ACCEPTABLI<br>CV<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CNS 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IMMIN 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | = 7.000E+01  \$IDN  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LIVER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | REPRO<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RESP 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SKIN<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9                                                                                    | ACCEPTABLI<br>CV<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CNS 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | IMMUN 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - 7.000E+01  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LIVER 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | REFRO  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RESP 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SKIN 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9                                                                                    | ACCEPTABLI<br>CV<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CNS 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IMMUN 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | - 7.000E+01  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LIVER 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | REFRO  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RESP 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SKIN  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>11<br>12                                                            | ACCEPTABLI  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CNS 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IMMUN 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | = 7.000E+01  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | REFRO  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | RESP 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SKIN  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15                                                                                          | ACCEPTABLI  CV  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CNS 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IMMUN  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | = 7.000E+01  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | REFRO  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RESP 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SKIN  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1 2 3 4 4 5 6 7 8 9 10 11 12 12 13 14 15 16 17                                                                               | ACCEPTABLI  CV  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CNS 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | UMMUN 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | - 7.000E+01  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                     | LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | REFRO  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                           | RESP 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SKIN  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TANT ECN  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19                                                                    | ACCEPTABLI  CV  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CNS 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IMMUN  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | = 7.000E+01  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                           | LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | REFRO  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                           | RESP 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SKIN  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 200 21                                                                   | ACCEPTABLI  CV  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CNS  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                           | EVEL (ug/m3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | - 7.000E+01  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                           | LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | REPRO  0.000E+00                                                                                                                                                                                                                                                                                                                                                     | RESP 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SKIN  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 200 21                                                                   | ACCEPTABLI  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CNS  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                 | UMMUN  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                   | = 7.000E+01  0.000E+00                                                                                                                                                                                                                                                                                                                                           | LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | REFRO  0.000E+00                                                                                                                                                                                                                                                                                                                                                                         | RESP  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                           | SKIN  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                         | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TANT ECN  1 2 3 4 5 6 7 7 8 9 10 11 1 12 12 13 14 15 16 17 18 19 20 21 22 23 24 25                                           | ACCEPTABLI  CV  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CNS  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                     | EVEL (ug/m3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | - 7.000E+01  0.000E+00                                                                                                                                                                                                                                                                                                                                 | LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | REFRO  0.000E+00                                                                                                                                                                                                                                                                                                                       | RESP  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                   | SKIN  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                     | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TANT ECN  1 2 3 4 5 6 7 7 8 9 10 11 1 12 12 13 14 15 16 17 18 19 20 21 22 23 24 25                                           | ACCEPTABLI  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CNS  0.000E+00                                                                                                                                                                                                                                                                                                                                                     | IMMUN  0.000E+00                                                                                                                                                                                                                                                                                                                                                               | = 7.000E+01  0.000E+00                                                                                                                                                                                                                                                           | LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | REPRO  0.000E+00                                                                                                                                                                                                                                                           | RESP  0.000E+00                                                                                                                                                                                                                                                                                                                                                     | SKIN  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                             | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TANT ECN  1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28                                       | ACCEPTABLI  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CNS  0.000E+00                                                                                                                                                                                                                                                                                                                                                               | UMMUN  0.000E+00                                                                                                                                                                                                                                                                                                                                                               | = 7.000E+01  0.000E+00                                                                                                                                                       | LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | REFRO  0.000E+00                                                                                                                                                                                                                                                                               | RESP  0.000E+00                                                                                                                                                                                                                                                                                                   | SKIN  0.000E+00                                                                                                                                                                                                                                                                                                                       | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TANT ECN  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 0                                 | ACCEPTABLI  CV  0.000E+00                                                                                                                                                                                                                                                                                                                                                               | CNS  0.000E+00                                                                                                                                                                                                                                       | UMMUN  0.000E+00                                                                                                                                                                                                                                                                                                                                                     | - 7.000E+01  0.000E+00                                                                                                                                                                                                         | LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | REFRO  0.000E+00                                                                                                                                                                                                                   | RESP  0.000E+00                                                                                                                                                                                                                                                                                                             | SKIN  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                             | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TANT HCN  1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32                        | ACCEPTABLI  CV  0.000E+00                                                                                                                                                                                                                                                                                         | CNS  0.000E+00                                                                                                                                                                                                                                       | EVEL (ug/m3)  IMMUN  0.000E+00                                                                                                           | - 7.000E+01  0.000E+00                                                                                                                                   | BACKG. (ug/s  LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | REPRO  0.000E+00                                                                                                                                   | RESP  0.000E+00                                                                                                                                                                                                                                                                                         | SKIN  0.000E+00                                                                                                                                                                           | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TANT HCN  1 2 3 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 22 24 25 26 27 28 29 30 31 32 33 34                | ACCEPTABLI  CV  0.000E+00                                                                                                                                                                                                                                                                                                                                                     | CNS  0.000E+00                                                                                                                                                                                     | UMMUN  0.000E+00                                                                                                                                             | = 7.000E+01  0.000E+00                                                                                                               | BACKG. (ug/s  LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | REFRO  0.000E+00                                                                                                               | RESP  0.000E+00                                                                                                                                             | SKIN  0.000E+00                                                                                                                                                                           | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TANT HCN  1 2 3 4 5 6 6 7 8 8 9 10 11 12 13 14 14 15 16 17 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 33 5        | ACCEPTABLI  CV  0.000E+00                                                                                                                                                                                               | CNS  0.000E+00                                                                                                                                             | EVEL (ug/m3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | - 7.000E+01  0.000E+00           | BACKG. (ug/s  LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | REPRO  0.000E+00                     | RESP  0.000E+00                                                                                                                                             | SKIN  0.000E+00                     | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TANT ECN  1 2 3 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 24 25 26 27 28 29 30 31 32 33 34 35 36 37          | ACCEPTABLI  CV  0.000E+00                                                                                                                                                                                               | CNS  0.000E+00                               | TMMUN  0.000E+00                                                                       | = 7.000E+01  0.000E+00                                                             | BACKG. (ug/s  LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | REPRO  0.000E+00                     | RESP  0.000E+00                                                                                           | SKIN  0.000E+00                               | - 0.000E+00 |
| SOURCE # SOU | TANT ECN  1 2 3 4 5 6 7 8 8 9 10 11 12 13 14 15 16 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 9 | ACCEPTABLI  CV  0.000E+00                                                                                                                                             | CNS  0.000E+00                                                                       | UMMUN  0.000E+00 | = 7.000E+01  0.000E+00           | BACKG. (Ug/s  LIVER  0.000E+00 | REFRO  0.000E+00 | RESP  0.000E+00                                         | SKIN  0.000E+00 | - 0.000E+00 |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TANT ECN  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 8         | ACCEPTABLI  CV  0.000E+00 | CNS  0.000E+00 | UMMUN  0.000E+00                                                                       | - 7.000E+01  0.000E+00 | BACKG. (Ug/s  LIVER  0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | REFRO  0.000E+00                     | RESP  0.000E+00 | SKIN  0.000E+00                                                                                           | - 0.000E+00 |

| Source #  | 41                   | 0.000E+00                                                                                                                      | 2.447E-03                           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0 0008+00                | 0.0000.00              |                        |             |
|-----------|----------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|-------------|
| Source #  | 42<br>43             | 0.000E+00<br>0.000E+00                                                                                                         | 4.489E-02                           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #  | 44                   | 0.000E+00                                                                                                                      | 0.000E+00<br>4.718E-06              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00                | 0.000E+00              | 0.000E+00              |             |
| SOURCE #  | 45<br>46             | 0.000E+00                                                                                                                      | 0.000E+00                           | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00   | 0.000E+00<br>0.000E+00 | 0.000E+00              |             |
| orana y   | -                    | 0.000E+00                                                                                                                      | 0.000E+00                           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                | 0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| \         | SUM -                | 0.000E+00                                                                                                                      | 4.734E-02                           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                | 0.000E+00              | *****                  |             |
| ,         |                      |                                                                                                                                |                                     |                        |                        |                        | V.000E700                | 0.0002700              | 0.000E+00              |             |
| POLLU     | TANT Pb              | ACCEPTABLE                                                                                                                     | E EXPOSURE L                        | EVEL (ug/m3)           | = 1.500E+00            | BACKG. (us/            | m3) = 0 000F             | +00 CRAL DOS           | * /                    |             |
|           |                      |                                                                                                                                |                                     |                        |                        |                        |                          |                        | (mg/kg-d)              | 4.300E-04   |
|           |                      | CA                                                                                                                             | CNS                                 | IPPAIN                 | KIDN                   | LIVER                  | REPRO                    | RESP                   | SKIN                   |             |
| SOURCE #  | 1                    | 5.638E-06                                                                                                                      | 5.638E-06                           | 5.638E-06              | 5.638E-06              |                        |                          |                        | SALI                   |             |
| Source #  | 2<br>3               | 3.752E-06                                                                                                                      | 3.752E-06                           | 3.752E-06              | 3.752E-06              | 0.000E+00<br>0.000E+00 | 5.638E-06<br>3.752E-06   | 0.000E+00<br>0.000E+00 | 0.0002+00              |             |
| SOURCE #  | ă                    | 4.509E-06<br>6.490E-06                                                                                                         | 4.509E-06<br>6.490E-06              | 4.509E-06<br>6.490E-06 | 4.509E-06              | 0.000E+00              | 4.509E-06                | 0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| SCURCE #  | 5                    | 9.139E-07                                                                                                                      | 9.139E-07                           | 9.139E-07              | 6.490E-06<br>9.139E-07 | 0.000E+00<br>0.000E+00 | 6.490E-06<br>9.139E-07   | 0.000E+00              | 0.000E+00              |             |
| SOURCE #  | <b>6</b><br>7        | 4.509E-06<br>6.490E-06<br>9.139E-07<br>1.593E-06<br>4.953E-07                                                                  | 1.593E-06<br>4.953E-07              | 1.593E-06              | 1.593E-06              | 0.000E+00              | 1.593E-06                | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #  | 8<br>9               | /.43 <u>ZE</u> -U/                                                                                                             | 7.432E-07                           | 4.953E-07<br>7.432E-07 | 4.953E-07<br>7.432E-07 | 0.000E+00<br>0.000E+00 | 4.953E-07<br>7.432E-07   | 0.000E+00              | 0.000E+00              |             |
| SOURCE #  | 10                   | 7.167E-07                                                                                                                      | 7.167E-07                           | 7.167E-07              | 7.167E-07              | 0.000E+00              | 7.167E-07                | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #  | 11                   | 7.965E-07<br>2.377E-07                                                                                                         | 7.965E-07<br>2.377E-07              | 7.965E-07<br>2.377E-07 | 7.965E~07              | 0.000E+00<br>0.000E+00 | 7.965E-07                | 0.000E+00              | 0.000E+00              |             |
| Source #  | 12<br>13             | 2.497E-07                                                                                                                      | 2.497E-07                           | 2.497E-07              | 2.377E-07<br>2.497E-07 | 0.000E+00              | 2.377E-07<br>2.497E-07   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #  | 14                   | 5.245E-05                                                                                                                      | 7.852E-05<br>5.245E-05              | 7.85ZE-05<br>5.245E-05 | 7.85ZE-05<br>5.245E-05 | 0.000E+00              | 7.852E-05                | 0.000E+00              | 0.000E+00              |             |
| SOURCE #  | 15<br>16             | 6.504E-05                                                                                                                      | 6.504E-05                           | 6.504E-05              | 6.504E-05              | 0.000E+00<br>0.000E+00 | 5.245E-05<br>6.504E-05   | 0.000E+00<br>0.000E+00 | 0.000E+00              |             |
| SOURCE #  | 17                   | 9.229E-05<br>1.307E-05                                                                                                         | 9.229E-05<br>1.307E-05              | 9.229E-05              | 9.229E-05              | 0.000E+00              | 9.2292-05                | 0.000E+00              | 0.000E+00              |             |
| SOURCE #  | 18                   | 2.497E-07<br>7.852E-05<br>5.245E-05<br>6.504E-05<br>9.229E-05<br>1.307E-05<br>2.234E-05<br>3.688E-05<br>2.500E-05<br>2.472E-05 | 2.234E-05                           | 1.307E-05<br>2.234E-05 | 1.307E-05<br>2.234E-05 | 0.000E+00<br>0.000E+00 | 1.307E-05<br>2.234E-05   | 0.000E+00              | 0.000E+00              |             |
| SOURCE #  | 19<br>20             | 3.688E-05<br>2.500F-05                                                                                                         | 3.688E-05                           | 3.688E-05              | 3.688E-05              | 0.000E+00              | 3.688E-05                | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #  | 21                   | 2.472E-05                                                                                                                      | 2.500E-05<br>2.472E-05              | 2.500E-05<br>2.472E-05 | 2.500E-05<br>2.472E-05 | 0.000E+00<br>0.000E+00 | 2.500E-05                | 0.000E+00              | 0.000E+00              |             |
| SOURCE #  | 22<br>23             |                                                                                                                                | 3.842E-05                           | 3.842E-05              | 3.842E-05              | 0.000E+00              | 2.472E-05<br>3.842E-05   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #  | 24                   | 5.822E-06<br>1.074E-05                                                                                                         | 5.822E-06<br>1.074E-05              | 5.822E-06<br>1.074E-05 | 5.822E-06<br>1.074E-05 | 0.000E+00              | 5.82ZE-06                | 0.000E+00              | 0.000E+00              |             |
| SOURCE #  | 25<br>26             | 9.064E-06                                                                                                                      | 9.064E-06                           | 9.064E-06              | 9.064E-06              | 0.000E+00<br>0.000E+00 | 1.074E-05<br>9.064E-06   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | ,           |
| SOURCE #  | 27                   | 1.724E-04<br>1.025E-04                                                                                                         | 1.724E-04<br>1.025E-04              | 1.724E-04<br>1.025E-04 | 1.724E-04<br>1.025E-04 | 0.000E+00              | 1.724E-04                | 0.000E+00              | 0.000E+00              |             |
| SOURCE #  | 28<br>29             | 9.003E-06<br>9.293E-06<br>1.453E-05                                                                                            | 9.003E-06                           | 9.003E-06              | 9.003E-06              | 0.000E+00<br>0.000E+00 | 1.025E-04<br>9.003E-06   | 0.000E+00<br>0.000E+00 | 0.000E+00              |             |
| SOURCE #  | 30                   | 9.293E-06<br>1.453E-05                                                                                                         | 9.293E-06<br>1.453E-05              | 9.293E-06              | 9.293E-06              | 0.000E+00              | 9.293E-06                | 0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #  | 3.5                  | 3.066E-05                                                                                                                      | 3.066E-05                           | 1.453E-05<br>3.066E-05 | 1.453E-05<br>3.066E-05 | 0.000E+00<br>0.000E+00 | 1.453E-05<br>3.066E-05   | 0.000E+00              | 0.000E+00              |             |
| SOURCE #  | 32<br>33             | 1.796E-05<br>1.659E-06                                                                                                         | 1.796E-05                           | 1.796E-05              | 1.796E-05              | 0.000E+00              | 1.796E-05                | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #  | 34                   | 1.723E-06                                                                                                                      | 1.659E-06<br>1.723E-06              | 1.659E-06<br>1.723E-06 | 1.659E-06<br>1.723E-06 | 0.000E+00              | 1.659E-06                | 0.000E+00              | 0.000E+00              |             |
| SOURCE #  | 35<br>36             | 2.714E-06                                                                                                                      | 2.714E-06                           | 2.714E-06              | 2.714E-06              | 0.000E+00<br>0.000E+00 | 1.723E-06<br>2.714E-06   | 0.000E+00<br>0.000E+00 | 0.000E+00              | •           |
| SOURCE #  | 37                   | 4.458E-05<br>2.585E-05                                                                                                         | 4.458E-05<br>2.585E-05              | 4.458E-05<br>2.585E-05 | 4.458E-05<br>2.585E-05 | 0.000E+00              | 4.458E-05                | 0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| Source #  | 38<br>39             |                                                                                                                                | 2.471E-06                           | 2.471E-06              | 2.471E-06              | 0.000E+00<br>0.000E+00 | 2.585E-05 ·<br>2.471E-06 | 0.000E+00<br>0.000E+00 | 0.000E+00              |             |
| SOURCE #  | 40                   | 2.4/1E-06<br>2.577E-06<br>4.085E-06                                                                                            | 2.471E-06<br>2.577E-06<br>4.085E-06 | 2.577E-06              | 2.577E-06              | 0.000E+00              | 2.577E-06                | 0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #  | 7.5                  | 0.000E+00                                                                                                                      | 0.000E+00                           | 4.085E-06<br>0.000E+00 | 4.085E-06<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 4.085E-06<br>0.000E+00   | 0.000E+00              | 0.000E+00              |             |
| Source #  | 42<br>43             | 0.000E+00                                                                                                                      | 0.000E+00<br>0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |             |
| Source #  | 44                   | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                            | 0.000E+00                           | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00                | 0.000E+00              | 0.000E+00              |             |
| SOURCE #  | 45<br>46             | 0.000E+00<br>0.000E+00                                                                                                         | 0.000E+00                           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |             |
|           |                      |                                                                                                                                | 0.000E+00                           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                | 0.000E+00              | 0.000E+00              |             |
|           | SUM =                | 9.425E-04                                                                                                                      | 9.425E-04                           | 9.425E-04              | 9.425E-04              | 0.000E+00              | 9.425E-04                | 0.000E+00              | 0.000E+00              |             |
| יון ז זמב | CANT Ma              |                                                                                                                                |                                     |                        |                        |                        |                          |                        |                        |             |
|           |                      | ALCEPTABLE                                                                                                                     | EXPOSURE LE                         | VEL (ug/m3)            | = 4.000E-01            | BACKG. (ug/m           | 3) = 0.000E4             | -00 CRAL DOSE          | (mg/kg-d)              | = 0.000E+00 |
|           |                      |                                                                                                                                |                                     |                        |                        |                        |                          |                        |                        |             |
| corman -  | _                    | <b>C7</b>                                                                                                                      | CXS                                 | IMMUN                  | KIDN                   | LIVER                  | REPRO                    | RESP                   | SKIN                   |             |
| Source #  | 1 2                  | 0.000E+00<br>0.000E+00                                                                                                         | 3.001E-06<br>1.997E-06              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                | 3.001E-06              | 0.000E+00              |             |
| SOURCE #  | 3                    | 0.000E+00                                                                                                                      | 2.400E-06                           | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00                | 1.997E-06              | 0.000E+00              |             |
| Source #  | 4<br>5               | 0.000E+00                                                                                                                      | 3.454E-06                           | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00   | 2.400E-06<br>3.454E-06 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #  | 6                    | 0.000E+00<br>0.000E+00                                                                                                         | 4.863E-07<br>8.479E-07              | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 0.000E+00                | 4.863E-07              | 0.000E+00              |             |
| Source #  | 7                    | 0.000E+00                                                                                                                      | 2.633E-07                           | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00   | 8.479E-07              | 0.000E+00              |             |
| SOURCE #  | 8<br>9               | 0.000E+00<br>0.000E+00                                                                                                         | 3.950E-07                           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                | 2.633E-07<br>3.950E-07 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #  | 10                   | 0.000E+00                                                                                                                      | 3.809E-07<br>4.231E-07              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00                | 3.809E-07              | 0.000E+00              |             |
| SOURCE #  | 11<br>12             | 0.000E+00<br>0.000E+00                                                                                                         | 1.264E-07                           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00   | 4.231E-07<br>1.264E-07 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #  | 12<br>13             | 0.000E+00                                                                                                                      | 1.327E-07<br>4.181E-05              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00                | 1.327E-07              | 0.000E+00              |             |
| SOURCE #  | 14<br>15             | 0.0002+00                                                                                                                      | 4.181E-05<br>2.792E-05              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00   | 4.181E-05<br>2.792E-05 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #  | 16                   | 0.000E+00<br>0.000E+00                                                                                                         | 3.462E-05<br>4.912E-05              | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 0.000E+00                | 3.462E-05              | 0.000E+00              |             |
| Source #  | 17<br>18             | 0.000E+00                                                                                                                      | 6.956E-06                           | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00   | 4.912E-05<br>6.956E-06 | 0.000E+00              |             |
| SOURCE #  | 19                   | 0.000E+00<br>0.000E+00                                                                                                         | 1.189E-05                           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                | 1-189E-05              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #  | 20                   | 0.000E+00                                                                                                                      | 2.466E-05<br>1.672E-05              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00   | 2.466E-05              | 0.000E+00              |             |
| Source #  | 22                   | 0.000E+00<br>0.000E+00                                                                                                         | 1.654E-05<br>2.569E-05              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                | 1.672E-05<br>1.654E-05 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #  | 21<br>22<br>23<br>24 | 0.000E+00                                                                                                                      | 3.894E-06                           | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00                | 2.569E-05              | 0.000E+00              | •           |
| Source #  | 24<br>25             | 0.000E+00<br>0.000E+00                                                                                                         | 7.185E-06                           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00   | 3.894E-06<br>7.185E-06 | 0.000E+00<br>0.000E+00 |             |
| Source ≠  | 26                   | 0.000E+00                                                                                                                      | 6.358E-06<br>1.152E-04              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00                | 6.358E-06              | 0.000E+00              |             |
| SOURCE #  | 27                   | 0.000E+00                                                                                                                      | 6.859E-05                           | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00   | 1.152E-04<br>6.859E-05 | 0.000E+00<br>0.000E+00 |             |
|           |                      |                                                                                                                                |                                     |                        |                        | =                      |                          |                        |                        |             |

| SOURCE #             | 28       | 0.000E+00              | 6.022E-06              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 6.022E-06              | 0.000E+00              |             |
|----------------------|----------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------|
| SOURCE #             | 29       | 0.000E+00              | 6.217E-06              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 6.217E-06              | 0.000E+00              |             |
| Source #             | 30<br>31 | 0.000E+00<br>0.000E+00 | 9.721E-06<br>2.051E-05 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 9.721E-06<br>2.051E-05 | 0.000E+00<br>0.000E+00 |             |
| Source #             | 32<br>33 | 0.000E+00              | 1.201E-05              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.201E-05              | 0.000E+00              |             |
| SOURCE #             | 34       | 0.000E+00<br>0.000E+00 | 1.109E-06<br>1.152E-06 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.109E-06<br>1.152E-06 | 0.000E+00<br>0.000E+00 |             |
| Source #             | 35<br>36 | 0.000E+00              | 1.816E-06              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.816E-06              | 0.000E+00              |             |
| SOURCE #             | 37       | 0.000E+00<br>0.000E+00 | 2.982E-05<br>1.729E-05 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 2.982E-05<br>1.729E-05 | 0.000E+00<br>0.000E+00 |             |
| Source #             | 38<br>39 | 0.000E+00<br>0.000E+00 | 1.653E-06              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.653E-06              | 0.000E+00              |             |
| SOURCE #             | 40       | 0.000E+00              | 1.724E-06<br>2.732E-06 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.724E-06<br>2.732E-06 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #             | 41<br>42 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              |             |
| SOURCE #             | 43       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |             |
| Source #             | 44<br>45 | 0.000E+00<br>0.000E+00 |             |
| Source #             | 46       | 0.000E+00              |             |
|                      | SUM =    | 0.000E+00              | 5.829E-04              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 5.829E-04              | 0.000E+00              |             |
|                      |          |                        |                        |                        |                        |                        |                        |                        |                        |             |
| POLLU                | CANT Eg  | ACCEPTABLE             | EXPOSURE LI            | EVEL (ug/m3)           | - 3.000E-01            | BACKG. (ug/r           | m3) = 0.000E-          | +00 ORAL DOSE          | (mg/kg-d)              | = 3.000E-04 |
|                      |          | C₹                     | CNE                    | TAGNI                  | ******                 |                        | 22770                  | nnon                   |                        |             |
| common r             |          |                        | CNS                    | In <b>a</b> nn         | KIDN                   | LIVER                  | REPRO                  | RESP                   | skin                   |             |
| Source #             | 1 2      | 0.000E+00<br>0.000E+00 |             |
| SOURCE #             | 3        | 0.000E+00              |             |
| SOURCE #             | 3        | 0.000E+00<br>0.000E+00 |             |
| Source #             | 6<br>7   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              |             |
| SOURCE #             | 8        | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |             |
| Source #             | 9<br>10  | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              |             |
| SOURCE #             | 11       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | ^           |
| Source #             | 12<br>13 | 0.000E+00<br>0.000E+00 | 0.000E+00              |             |
| SOURCE #             | 14       | 0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #             | 15<br>16 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #             | 17       | 0.000E+00              |             |
| Source #             | 18<br>19 | 0.000E+00<br>0.000E+00 |             |
| Source #             | 20<br>21 | 0.000E+00<br>0.000E+00 | 0.000E+00              |             |
| Source #             | 22       | 0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| Source #             | 23<br>24 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.800E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              |             |
| SOURCE #             | 25       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #             | 26<br>27 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #             | 28       | 0.000E+00              |             |
| Source #<br>Source # | 29<br>30 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #             | 31<br>32 | 0.000E+00              |             |
| SOURCE #             | 33       | 0.000E+00<br>0.000E+00 |             |
| Source #             | 34<br>35 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              |             |
| SOURCE #             | 36       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| Source #             | 37<br>38 | 0.000E+00<br>0.000E+00 |             |
| Source #             | 39       | 0.000E+00              |             |
| Source #             | 40<br>41 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #             | 42<br>43 | 0.000E+00<br>0.000E+00 | 0.000E+00              |             |
| SOURCE #             | 44       | 0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #             | 45<br>46 | 0.000E+00<br>0.000E+00 |             |
|                      | SUM =    | 0.000E+00              |             |
|                      |          |                        |                        |                        |                        |                        | V.5002.00              | 0.0002.00              | 7.0002.00              |             |
| POLLU                | IANT Ni  | ACCEPTABLE             | E EXPOSURE L           | EVEL (ug/m3)           | = 2.400E-01            | BACKG. (ug/            | m3) = 0.000E           | +00 ORAL DOSE          | (mg/kg-d)              | = 0.000E+00 |
|                      |          | CA                     | CNS                    | IMMUN                  | KIDN                   | . 177570               | REPRO                  | RESP                   | SKIN                   |             |
| SOURCE #             | 1        | 0.000E+00              | 0.000E+00              |                        |                        | LIVER                  |                        |                        |                        |             |
| SOURCE #             | 2        | 0.000E+00              | 0.000E+00              | 1.495E-07<br>9.948E-08 | 1.495E-07<br>9.948E-08 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.495E-07<br>9.948E-08 | 0.000E+00<br>0.000E+00 |             |
| Source #             | 3<br>4   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.195E-07<br>1.720E-07 | 1.195E-07<br>1.720E-07 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.195E-07<br>1.720E-07 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #             | 5        | 0.000E+00              | 0.000E+00              | 2.422E-08              | 2.422E-08              | 0.000E+00              | 0.000E+00              | 2.422E-08              | 0.000E+00              |             |
| SOURCE #             | 6<br>7   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 4.224E-08<br>1.311E-08 | 4.224E-08<br>1.311E-08 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 4.224E-08<br>1.311E-08 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #             | 8<br>9   | 0.000E+00              | 0.000E+00              | 1.967E-08              | 1.967E-08              | 0.000E+00              | 0.000E+00              | 1.967E-08              | 0.000E+00              |             |
| SOURCE #             | 10       | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.898E-08<br>2.109E-08 | 1.898E-08<br>2.109E-08 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.898E-08<br>2.109E-08 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #             | 11<br>12 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 6.298E-09              | 6.298E-09              | 0.000E+00              | 0.000E+00              | 6.298E-09              | 0.000E+00              |             |
| SOURCE #             | 13       | 0.000E+00              | 0.000E+00<br>0.000E+00 | 6.614E-09<br>2.082E-06 | 6.614E-09<br>2.082E-06 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 6.614E-09<br>2.082E-06 | 0.000E+00<br>0.000E+00 |             |
| Source #             | 14       | 0.000E+00              | 0.000E+00              | 1.391E-06              | 1.391E-06              | 0.000E+00              | 0.000E+00              | 1.391E-06              | 0.000E+00              |             |

| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                     | 1.724E-06<br>2.447E-06<br>3.464E-07<br>5.922E-07<br>1.194E-06<br>8.096E-07<br>1.244E-06<br>1.886E-07<br>3.480E-07<br>3.518E-06<br>2.916E-07<br>3.010E-07<br>4.708E-07<br>9.934E-07<br>5.516E-07<br>5.579E-08<br>8.791E-08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.724E-06<br>2.447E-06<br>3.464E-07<br>5.924E-07<br>1.194E-06<br>8.098E-07<br>1.244E-06<br>1.886E-07<br>3.480E-07<br>3.518E-07<br>3.321E-06<br>2.916E-07<br>4.708E-07<br>4.708E-07<br>5.580E-06<br>2.916E-07<br>5.572E-08<br>5.579E-08                                                                                                                                                                                                                                                                                                                                                                                                                         | C.000E+00<br>O.000E+00<br>O.000E+00<br>O.000E+00<br>O.000E+00<br>O.000E+00<br>O.000E+00<br>O.000E+00<br>O.000E+00<br>O.000E+00<br>O.000E+00<br>O.000E+00<br>O.000E+00<br>O.000E+00<br>O.000E+00<br>O.000E+00<br>O.000E+00<br>O.000E+00<br>O.000E+00                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1.724E-06<br>2.447E-06<br>3.464E-07<br>5.922E-07<br>1.194E-06<br>8.098E-07<br>8.006E-07<br>1.244E-06<br>1.886E-07<br>3.518E-07<br>3.518E-07<br>3.518E-07<br>3.010E-07<br>4.708E-07<br>9.934E-07<br>5.816E-07<br>5.872E-08<br>8.791E-08<br>8.791E-08                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Source #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 37<br>38                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8.374E-07<br>8.004E-08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8.374E-07<br>8.004E-08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8.374E-07<br>8.004E-08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |
| Source #<br>Source #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 39<br>40<br>41                                                                                                             | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8.349E-08<br>1.323E-07<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8.349E-08<br>1.323E-07<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8.349E-08<br>1.323E-07<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |
| Source #<br>Source #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 42<br>43<br>44                                                                                                             | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000E+00<br>0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |
| SOURCE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 45<br>46                                                                                                                   | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.000E+00<br>0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SUM -                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2.853E-05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.853E-05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.853E-05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |
| POLLU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TANT NAPTH                                                                                                                 | ACCEPTABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EXPOSURE LI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | VEL (ug/m3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | - 1.400E+01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BACKG. (ug/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3) = 0.000E+                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -00 ORAL DOSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (mg/kg-d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | - 4.000E-03 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            | C7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | INTAIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | KIDN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LIVER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | REPRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RESP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SKIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | **          |
| SOURCE # SOU |                                                                                                                            | 0.000E+00 | 0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.00E+00 0.000E+00 | 0.00E+00 0.000E+00 | 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 0.000±+00 | 0.00E+00 | 0.000E+00 |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SUM =                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.000E+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UTANT Se                                                                                                                   | ACCEPTABL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | E EXPOSURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2021 (ma/m3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | - 5 000E-0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TRACTO / TO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | /m33 = 0.0007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | THOO ORAL DOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | F (me/freed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | = 0 000£400 |

KIDN

LIVER

REPRO

RESP

SKIN

IMMUN

CXZ

CA

SOURCE # 1

| SOURCE # | 2      | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
|----------|--------|-----------|------------|-----------|-----------|-----------|------------|-----------|-----------|
| SOURCE # | 3      | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 4      | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 5      | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 6      | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 7      | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 8      | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | š      | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 1Ó     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 11     | 0.000E+00 | 0.000E+00  | 0.000E+00 |           |           |            |           |           |
| SOURCE # | 12     | 0.000E+00 |            |           | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 13     |           | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
|          |        | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 14     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 15     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 16     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 17     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 18     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| Source # | 19     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 20     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 21     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 22     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 23     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 24     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 25     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 26     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 27     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 28     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 29     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 30     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 31     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.0002+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 32     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 33     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 34     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 35     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 36     | 0.000E+00 |            |           |           |           |            |           |           |
| SOURCE # | 37     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 38     |           | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
|          |        | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 39     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 40     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 41     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 42     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 43     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 44     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| SOURCE # | 45     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
| Source # | 46     | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 |
|          | SUM =  | 0.000E+00 | 0.000E+00  | 0.000E+00 | 0.000E+00 | 0.000E+00 | 0.000E+00  | 0 0005+00 | 0.005400  |
|          | 5061 - | 0.0002700 | U. UUUETUU | 0.0005700 | 0.0002700 | 0.0002700 | U. 000E700 | 0.000E+00 | 0.000E+00 |

POLLUTANT TOL ACCEPTABLE EXPOSURE LEVEL (ug/m3) = 2.000E+02 BACKG, (ug/m3) = 0.000E+00 ORAL DOSE (mg/kg-d) = 0.000E+00

|          |          | CA                     | CNS                    | In <b>ta</b> nn        | KIDN                   | LIVER                  | REPRO                  | RESP                   | SKIN                   |
|----------|----------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| SOURCE # | 1        | 0.000E+00              |
| SOURCE # | 2        | 0.000E+00              |
| SOURCE # | 3        | 0.000E+00              |
| SOURCE # | 4        | 0.000E+00              |
| SOURCE # | 5        | 0.000E+00              |
| SOURCE # | 6        | 0.000E+00              |
| SOURCE # | 7        | 0.000E+00              |
| SOURCE # | 8        | 0.000E+00              |
| SOURCE # | 9        | 0.000E+00              |
| SOURCE # | 10       | 0.000E+00              |
| SOURCE # | 11       | 0.000E+00              |
| SOURCE # | 12       | 0.000E+00              |
| SOURCE # | 13       | 0.000E+00              |
| SOURCE # | 14       | 0.000E+00              |
| SOURCE # | 15       | 0.000E+00              |
| SOURCE # | 16<br>17 | 0.000E+00<br>0.000E+00 | 0.000E+00              |
| SOURCE # | 18       | 0.000E+00              | 0.000E+00<br>0.000E+00 |
| SOURCE # | 19       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              |                        | 0.000E+00              |
| SOURCE # | 20       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00              |
| SOURCE # | 21       | 0.000E+00              |
| SOURCE # | 22       | 0.000E+00              |
| SOURCE # | 23       | 0.000E+00              |
| SOURCE # | 24       | 0.000E+00              |
| SOURCE # | 25       | 0.000E+00              |
| SOURCE # | 26       | 0.000E+00              |
| SOURCE # | 27       | 0.000E+00              |
| SOURCE # | 28       | 0.000E+00              |
| SOURCE # | 29       | 0.000E+00              |
| SOURCE # | 30       | 0.000E+00              |
| SOURCE # | 31       | 0.000E+00              |
| SOURCE # | 32       | 0.000E+00              | 0.0002+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              |
| SOURCE # | 33       | 0.000E+00              |
| SOURCE # | 34       | 0.000E+00              | 0.000E+00              | 0.000E+00              | 8.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+08              | 0.000E+00              |
| SOURCE # | 35       | 0.000E+00              |
| SOURCE # | 36       | 0.000E+00              |
| SOURCE # | 37       | 0.000E+00              |
| SOURCE # | 38       | 0.000E+00              |
| SOURCE # | 39       | 0.000E+00              |
| SOURCE # | 40       | 0.000E+00              | 0.000E+60              |
| SOURCE # | 41       | 0.000E+00              |
| SOURCE # | 42       | 0.000E+00              |
| SOURCE # | 43       | 0.000E+00              | 0.000E+00              | 0.000E+G0              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              |

| SOURCE #                         | 44<br>45       | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00              |             |
|----------------------------------|----------------|------------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------------------|------------------------|-------------|
| SOURCE #                         | 46             | 0.000E+00                                | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                           | 0.000E+00<br>0.000E+00 |             |
|                                  | Sum -          | 0.000E+00                                | G.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                           | 0.000E+00              |             |
| POLLUT                           | TANT XYLEN     | ACCEPTABLE                               | EXPOSURE L             | EVEL (ug/m3)           | - 3.000E+02            | BACKG. (ug/m           | 3) = 0.000E+           | 00 ORAL DOSE                        | (mg/kg-d)              | - 0.000E+00 |
|                                  |                | CA                                       | CNS                    | IP <b>2</b> 4UN        | KIDN                   | LIVER                  | REPRO                  | RESP                                | SKIN                   |             |
| SOURCE #                         | 1 2            | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00              |             |
| Source #                         | 3<br>4         | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| Source #                         | 5<br>6         | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 7<br>8         | 0.000E+00<br>0.000E+00                   | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 9<br>10        | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00                           | 0.000E+00              |             |
| SOURCE #                         | 11<br>12       | 0.000E+00                                | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 13             | 0.000E+00<br>0.000E+00                   | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| Source #                         | 14<br>15       | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| Source #                         | 16<br>17       | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 18<br>19       | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00                           | 0.000E+00              |             |
| SOURCE #                         | 20             | 0.000E+00                                | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 21<br>22       | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 23<br>24       | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000Z+00<br>0.000Z+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| Source #                         | 25<br>26       | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 27<br>28       | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00                           | 0.000E+00              | - ·         |
| SOURCE #                         | 29<br>30       | 0.000E+00                                | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 31             | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| Source #                         | 32<br>33       | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 34<br>35       | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 36<br>37       | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00                           | 0.000E+00              |             |
| SOURCE #                         | 38<br>39       | 0.000E+00                                | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 40             | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 41<br>42       | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| Source #                         | 43<br>44       | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
| Source #                         | 45<br>46       | 0.000E+00<br>0.000E+00                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00              | 0.000E+00<br>0.000E+00 |             |
|                                  | SUM -          | 0.000E+00                                | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00                           | 0.000E+00              |             |
| POLLU                            | TANT Zn        | ACCEPTABLE                               | E EXPOSURE 1           | EVEL (ug/m3)           | = 3.500E+01            | BACKG. (ug/i           | m3) = 0.000E+          | OO ORAL DOSI                        | E (mg/kg-d)            | - 0.000E+00 |
|                                  |                | CA.                                      | CNS                    | IMMIN                  | KIDN                   | LIVER                  | REFRO                  | RESP                                | SKIN                   |             |
| SOURCE #                         | 1              | 4.331E-09                                | 0.000E+00              | G.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 4.331E-09                           | 0.000E+00              |             |
| SOURCE #                         | 2<br>3         | 2.882 <u>E</u> -09<br>3.464 <u>E</u> -09 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 2.882E-09<br>3.464E-09              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 4<br>5         | 4.984E-09<br>7.018E-10                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 4.984E-09<br>7.018E-10              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 6<br>7         | 1.224E-09<br>3.796E-10                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00              | 1.224E-09                           | 0.000E+00              |             |
| SOURCE #                         | а              | 5.695E-10                                | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 3.796E-10<br>5.695E-10              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 9<br>10        | 5.493E-10<br>6.102E-10                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 5.493E-10<br>6.102E-10<br>1.822E-10 | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 11<br>12       | 1.822E-10<br>1.914E-10                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.822E-10<br>1.914E-10              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 13<br>14       | 6.033E-08<br>4.030E-08                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 6.033E-08<br>4.030E-08              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #<br>SOURCE #<br>SOURCE # | 15<br>16       | 4.996E-08<br>7.089E-08                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 4.996E-08<br>7.089E-08              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 17<br>18       | 1.003E-08                                | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 1.003E-08                           | 0.000E+00              |             |
| SCURCE #                         | 19<br>20       | 1.715E-08<br>3.933E-08                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.715E-08<br>3.933E-08              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 21             | 2.667E-08<br>2.635E-08                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 2.667E-08<br>2.635E-08              | 0.000E+00<br>0.000E+00 |             |
| Source #                         | 22<br>23<br>24 | 4.098E-08<br>6.210E-09                   | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 4.098E-08<br>6.210E-09              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 24<br>25       | 1.146E-08<br>5.318E-09                   | 0.000E+00<br>0.000E+00 | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00              | 1.146E-08                           | G.000E+00              |             |
| SOURCE #                         | 25<br>26<br>27 | 1.838E-07                                | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 5.318E-09<br>1.838E-07              | 0.000E+00<br>0.000E+00 |             |
| SOURCE #                         | 28             | 1.094E-07<br>9.602E-09                   | 0.000E+00              | 0.000E+00              | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 1.094E-07<br>9.602E-09              | 0.000E+00<br>0.000E+00 |             |
| Source #                         | 29<br>30       | 9.912E-09<br>1.550E-08                   | 0.000E+00<br>0.000E+00 |                        | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00 | 9.912E-09<br>1.550E-08              | 0.000E+00<br>0.000E+00 |             |
|                                  |                |                                          |                        |                        |                        |                        | · •                    |                                     |                        |             |

| GRCE # GR | 31<br>32<br>33<br>34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46 | 3.271E-08<br>1.916E-08<br>1.769E-09<br>1.837E-09<br>2.895E-09<br>4.754E-08<br>2.757E-08<br>2.636E-09<br>2.749E-09<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000±+00<br>0.000±+00<br>0.000±+00<br>0.000±+00<br>0.000±+00<br>0.000±+00<br>0.000±+00<br>0.000±+00<br>0.000±+00<br>0.000±+00<br>0.000±+00<br>0.000±+00<br>0.000±+00<br>0.000±+00<br>0.000±+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 3.271E-08<br>1.916Z-08<br>1.769E-09<br>1.837E-09<br>2.895E-09<br>4.745Z-08<br>2.757E-08<br>2.636E-09<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 | 0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00<br>0.000E+00 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SUM -                                                                                        | 8.965E-07                                                                                                                                                                          | 0.000E+00                                                                                                                                                | 0.000E+00                                                                                                                                                                                       | 0.000E+00                                                                                                                                                                                       | 0.000E+00                                                                                                                                                                                       | 0.000E+00                                                                                                                                                                          | 8.965E-07                                                                                                                                                                          | 0.000E+00                                                                                                                                                                                       |

REDEN QUEEN MINING - SOLEDAD MIN PROJECT - ALL RECEPTORS, 1991 MET, TSP \* OUTPUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* uput File: g:\beent\GQ\gqtspace.dat Output File: g:\beent\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 179

\*\*\* SUMMARY OF MAXIMUM PREDICTED RISKS \*\*\*

# CANCER RISK ASSESSMENT

SIGNIFICANT RISK LEVEL = 1.000E-06 IMPACT ZONE RISK LEVEL = 1.000E-07 MAXIMUM FEAK RISK = 2.621E-05 FREDICTED AT RECEPTOR \$ TOTAL EXCESS BURDEN = 0.000E+00

351 RECEPTORS WITH RISK EXCEEDING SIGNIFICANT RISK LEVEL OF 1.000E-06

Page - 180 13 23 33 53 53 63 73 93 112 123 123 123 123 123 203 213 225 225 225 225 327 344 407 388 407 17 27 37 47 57 67 77 77 127 127 127 127 127 127 223 239 2254 264 279 279 3315 3313 3373 20 30 39. 49. 59. 69. 99. 119. 129. 139. 149. 159. 169. 179. 189. 125. 225. 241. 256. 278. 281. 296. 50 60 70 90 100 120 130 150 170 180 190 2216 224 225 227 272 272 272 282 302 317 340 357 384 318 341 358 385 391 410 435 392 411 436 402 425 437 403 428 438 404 429 439 405 430 440 406 431 441 408 433

# ACUTE EXPOSURE TO NON-CANCER POLLUTANTS

SIGNIFICANT HAZARD INDEX = 0.5000
MAXIMUM HAZARD INDEX FOR AN ENDPOINT = 0.0137
PREDICTED AT RECIPTOR # 34

O RECEPTORS WITH HAZARD INDEX .GE. O.5000 FOR ONE OR MORE TOXICOLOGICAL EMPROINTS

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET, TSP \* OUTPUT OF AMI/SECAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\gqtspace.dat Output File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 181

# CHRONIC EXPOSURE TO NON-CANCER POLLUTANTS

SIGNIFICANT HAZARD INDEX = 0.5000
MAXIMUM HAZARD INDEX FOR AN ENDPOINT = 0.0516
PREDICTED AT RECEPTOR # 0.5000

O RECEPTORS WITH HAZARD INDEX .GE. 0.5000 FOR ONE OR MORE TOXICOLOGICAL ENDPOINTS

GOLDEN QUEEN MINING - SOLEDAD MIN FROJECT - ALL RECEPTORS, 1991 MET, TSP \* OUTFUT OF AMI/SBCAPCD ACE2588 MODEL VERS. 93288 \* Input File: g:\beest\GQ\gqtspace.dat Output File: g:\beest\GQ\GQtspace.OUT 11/14/96 07:44:58 Page - 182

\*\*\* END OF ACE2588 SIMULATION \*\*\*

: ;