APPENDIX A

IS/NOP, NOC, and Scoping Letters

Los Angeles LA DWP Department of Water & Power

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NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT

2017 337327
FILED
Nov 29 2017
Dean C. Logan, Registrar – Recorder/County Clerk
Electronically signed by DEMETRIA ATKINS

Date: December 1, 2017

To: Affected Agencies, Organizations and Interested Persons

Subject: Notice of Preparation of a Draft Environmental Impact Report for the De Soto Tanks Project

This Notice of Preparation (NOP) has been prepared to notify agencies and interested parties that the Los Angeles Department of Water and Power (LADWP), as the Lead Agency, will prepare an Environmental Impact Report (EIR) pursuant to the California Environmental Quality Act (CEQA) for the proposed De Soto Tanks Project.

LADWP is requesting input from interested individuals, organizations, and agency representatives regarding the scope and content of the environmental information to be included in the EIR for the proposed project. In accordance with CEQA, LADWP requests that agencies review the project description provided in this NOP and provide comments on environmental issues related to the statutory responsibilities of the agency. A description of the project, location, and preliminary determination of the environmental resource topics to be addressed in the EIR are contained in the Initial Study for the De Soto Tanks Project.

THIS NOTICE WAS POSTED
ON November 29 2017
UNTIL December 29 2017
REGISTRAR – RECORDER/COUNTY CLERK

Project Location:
The proposed project is located in the City of Los Angeles within the County of Los Angeles, at 11200 De Soto Avenue, in the Chatsworth community. The project site is generally bounded by the 118 Freeway to the north, De Soto Avenue to the west, and Rinaldi Street to the south and east. Adjacent to the property on the east side, is an undeveloped, privately-owned parcel of land that would be acquired to facilitate construction of the proposed project. The project is located in Council District No. 12 and in the Chatsworth Neighborhood Council area.

Project Description:
The De Soto Tanks Project is a water storage project to provide additional local storage and increase operational effectiveness, reliability, and flexibility; system redundancy; and emergency supply to the West San Fernando Valley.

The project would functionally replace the existing 3-million gallon (MG) De Soto

Reservoir, with two buried, pre-stressed circular concrete storage tanks immediately north of the existing reservoir site. The combined storage capacity upon completion of the new storage tanks would be approximately 20 MG.

The existing De Soto Reservoir, located in the northwestern area of the San Fernando Valley, was built in 1941. It has a base elevation of 1,100 feet above mean sea level and a high water level of 1,123 feet. In order to maintain appropriate operating pressure, the two proposed buried pre-stressed concrete tanks would have a base elevation of 1,100 feet, a high water level of 1,130 feet, and a top of tank elevation of 1,140 feet. Excavation at the proposed project site would be required to bury the tanks, which would be approximately 240 feet in diameter and 40 feet in height, below existing grad level in order to achieve these target elevations.

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The construction of these tanks will require a temporary excavation to a depth of approximately 50 feet. This excavation will likely include 2:1 (horizontal:vertical) slope cuts and vertical walls of up to 40 feet with tie-backs as part of the shoring system. Additional geotechnical investigation is being conducted to determine the final location of the tanks.

Construction of the De Soto Tanks Project would also require the installation of approximately 2,500 linear feet of new inlet pipelines that would connect to the LADWP Rinaldi Trunk Line and outlet pipelines that would connect to the LADWP De Soto Trunk Line and Granada Trunk Line. In addition, a new pressure regulator station is needed to reduce the water pressure coming via Rinaldi Trunk Line from Los Angeles Aqueduct Filtration Plant UV Plant, 1,190-foot high water, to the De Soto Tanks which will have a 1,130-foot high water.

Upon completion of the De Soto Tanks, the existing De Soto Reservoir will be demolished and a new De Soto Pump Station will also be constructed to pump water to the 1305-ft pressure zone. Currently, the 1305-ft pressure zone is supplied by the Van Norman Pump Station No. 2, which pumps water to the 1445-ft pressure zone and is regulated at the Granada TL at De Soto Reservoir Regulator Station to the 1305-ft pressure zone. The new De Soto Pump Station will reduce dependence on Van Norman Pump Station No. 2 and improve water quality by allowing for better cycling of the Kittridge Tanks in the 1305-ft pressure zone.

Potential Environmental Impacts:
Based on the Initial Study, the Project could have potentially significant environmental impacts in the following topic areas, which will be addressed in the EIR: Air Quality, Biological Resources, Cultural Resources, Greenhouse Gas Emissions, Hydrology and Water Quality, Noise, Transportation and Traffic, and Utilities and Service Systems.

Scoping Meeting:
LADWP will hold a scoping meeting to share information regarding the proposed project and environmental review process and to receive written comments about the scope and content of the environmental analysis to be addressed in the EIR. The LADWP

encourages all interested individuals and organizations to attend this meeting. No decisions about the project will be made at the scoping meeting. The date, time, and location of the public scoping meeting are as follows:

Wednesday, January 17, 2018
6:00PM
Chatsworth Branch Library – Meeting Room
21052 Devonshire Street
Chatsworth, CA 91311

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Public Review and Comments:
The public comment period for the NOP and review of the Initial Study will start on December 1, 2017, and end on January 31, 2018.

Please ensure that comments are postmarked or emailed on or before January 31, 2018.

The Initial Study is available for review at the locations listed below or may be accessed electronically and/or downloaded at the following website:
http://www.ladwp.com/envnotices.

Chatsworth Branch Public Library
21052 Devonshire Street
Chatsworth, CA 91311

Los Angeles Department of Water and Power
Environmental Affairs
111 N. Hope Street, Room 1044
Los Angeles, CA 90012

Please mail or email your comments, and direct any questions to:

Brian Gonzalez
Los Angeles Department of Water and Power
Environmental Planning and Assessment
111 North Hope Street, Room 1044
Los Angeles, CA 90012
(213) 367-2612
brian.gonzalez@ladwp.com

Signature: Charles C. Holloway
Charles C. Holloway, Manager of Environmental Planning and Assessment, LADWP

BG:rc

...and certified copy of the record
...the seal, imprinted in purple ink,
...Registrar-Recorder/County Clerk

NOV 29 2017

REGISTRAR-RECORDER/COUNTY CLERK
LOS ANGELES COUNTY, CALIFORNIA

Print Form

Appendix C

Notice of Completion & Environmental Document Transmittal

Mail to: State Clearinghouse, P.O. Box 3044, Sacramento, CA 95812-3044 (916) 445-0613
For Hand Delivery/Street Address: 1400 Tenth Street, Sacramento, CA 95814

SCH #

Project Title: De Soto Tanks Project

Lead Agency: City of Los Angeles Department of Water & Power | Contact Person: Charles Holloway

Mailing Address: 111 North Hope Street, Room 1044 | Phone: (213) 367-0285

City: Los Angeles | Zip: 90012 | County: Los Angeles

Project Location: County: Los Angeles | City/Nearest Community: Chatsworth & Porter Ranch

Cross Streets: De Soto Avenue/Rinaldi Street | Zip Code: 91311

Longitude/Latitude (degrees, minutes and seconds): 34 ° 271 ′ ____ ″ N / -118 ° 587 ′ ____ ″ W | Total Acres: 20

Assessor's Parcel No.: 2701003907, 2707001-904 and -019 | Section: Oat Mtn | Twp.: 2N | Range: 16W | Base: 8

Within 2 Miles: State Hwy #: 118 | Waterways: Browns Canyon Wash

Airports: N/A | Railways: Metrolink Rail Line | Schools: Sierra Canyon School

Document Type:

CEQA: ☒ NOP ☐ Draft EIR | NEPA: ☐ NOI | Other: ☐ Joint Document
☐ Early Cons ☐ Supplement/Subsequent EIR | ☐ EA | ☐ Final Document
☐ Neg Dec (Prior SCH No.) _____ | ☐ Draft EIS | ☐ Other: _____
☐ Mit Neg Dec Other: _____ | ☐ FONSI

Local Action Type:

☐ General Plan Update ☐ Specific Plan ☐ Rezone ☐ Annexation
☐ General Plan Amendment ☐ Master Plan ☐ Prezone ☐ Redevelopment
☐ General Plan Element ☐ Planned Unit Development ☐ Use Permit ☐ Coastal Permit
☐ Community Plan ☒ Site Plan ☐ Land Division (Subdivision, etc.) ☐ Other: _____

Development Type:

☐ Residential: Units _____ Acres _____
☐ Office: Sq.ft. _____ Acres _____ Employees _____
☐ Commercial: Sq.ft. _____ Acres _____ Employees _____
☐ Industrial: Sq.ft. _____ Acres _____ Employees _____
☐ Educational: _____
☐ Recreational: _____
☒ Water Facilities: Type Storage Tanks MGD 2, 20MG tanks
☐ Transportation: Type _____
☐ Mining: Mineral _____
☐ Power: Type _____ MW _____
☐ Waste Treatment: Type _____ MGD _____
☐ Hazardous Waste: Type _____
☒ Other: Demolition of De Soto Reservoir

Project Issues Discussed in Document:

☒ Aesthetic/Visual ☐ Fiscal ☒ Recreation/Parks ☒ Vegetation
☒ Agricultural Land ☒ Flood Plain/Flooding ☒ Schools/Universities ☒ Water Quality
☒ Air Quality ☒ Forest Land/Fire Hazard ☐ Septic Systems ☒ Water Supply/Groundwater
☒ Archeological/Historical ☒ Geologic/Seismic ☒ Sewer Capacity ☒ Wetland/Riparian
☒ Biological Resources ☒ Minerals ☐ Soil Erosion/Compaction/Grading ☐ Growth Inducement
☐ Coastal Zone ☒ Noise ☒ Solid Waste ☒ Land Use
☒ Drainage/Absorption ☒ Population/Housing Balance ☒ Toxic/Hazardous ☐ Cumulative Effects
☐ Economic/Jobs ☒ Public Services/Facilities ☒ Traffic/Circulation ☐ Other: _____

Present Land Use/Zoning/General Plan Designation:

Agricultural/A2-1 Agricultural Zone

Project Description: *(please use a separate page if necessary)*

The De Soto Tanks Project (proposed project) is a water storage project that is being proposed by the Los Angeles Department of Water and Power (LADWP). The project would functionally replace the existing 3-million-gallon (MG) De Soto Reservoir, located at 11200 De Soto Avenue, with two buried, pre-stressed circular concrete storage tanks immediately north of the existing reservoir site. The combined operating storage capacity upon completion of the new storage tanks would be approximately 20 MG. These tanks would provide additional local storage to increase operational effectiveness, reliability, and flexibility; system redundancy; and emergency supply to the West San Fernando Valley.

Note: The State Clearinghouse will assign identification numbers for all new projects. If a SCH number already exists for a project (e.g. Notice of Preparation or previous draft document) please fill in.

Reviewing Agencies Checklist

Lead Agencies may recommend State Clearinghouse distribution by marking agencies below with and "**X**".
If you have already sent your document to the agency please denote that with an "**S**".

S Air Resources Board
____ Boating & Waterways, Department of
____ California Emergency Management Agency
X California Highway Patrol
S Caltrans District # 7
____ Caltrans Division of Aeronautics
____ Caltrans Planning
____ Central Valley Flood Protection Board
____ Coachella Valley Mtns. Conservancy
____ Coastal Commission
____ Colorado River Board
X Conservation, Department of
____ Corrections, Department of
____ Delta Protection Commission
____ Education, Department of
X Energy Commission
S Fish & Game Region # 5
____ Food & Agriculture, Department of
X Forestry and Fire Protection, Department of
____ General Services, Department of
____ Health Services, Department of
____ Housing & Community Development
X Native American Heritage Commission

X Office of Historic Preservation
____ Office of Public School Construction
S Parks & Recreation, Department of
____ Pesticide Regulation, Department of
X Public Utilities Commission
S Regional WQCB # 4
X Resources Agency
____ Resources Recycling and Recovery, Department of
____ S.F. Bay Conservation & Development Comm.
X San Gabriel & Lower L.A. Rivers & Mtns. Conservancy
____ San Joaquin River Conservancy
X Santa Monica Mtns. Conservancy
X State Lands Commission
____ SWRCB: Clean Water Grants
X SWRCB: Water Quality
____ SWRCB: Water Rights
____ Tahoe Regional Planning Agency
S Toxic Substances Control, Department of
X Water Resources, Department of

S Other: See attached agency distribution
____ Other: _____

Local Public Review Period (to be filled in by lead agency)

Starting Date December 1, 2017 Ending Date January 31, 2018

Lead Agency (Complete if applicable):

Consulting Firm: Dudek
Address: 38 North Marengo Avenue
City/State/Zip: Pasadena, CA 91101
Contact: Nicole Colbeigh, Senior Project Manager
Phone: (626) 204-9829

Applicant: Los Angeles Department of Water & Power
Address: 111 North Hope Street, Room 1044
City/State/Zip: Los Angeles, CA 90012
Phone: (213) 367-2612

Signature of Lead Agency Representative: _____ **Date:** _____

Authority cited: Section 21083, Public Resources Code. Reference: Section 21161, Public Resources Code.

INITIAL STUDY

DE SOTO TANKS PROJECT

LOS ANGELES DEPARTMENT OF WATER AND POWER

Environmental Services

111 North Hope Street, Room 1044

Los Angeles, California 90012

WITH ASSISTANCE FROM

DUDEK

38 North Marengo Avenue

Pasadena, California 91101

NOVEMBER 2017

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ACRONYMS AND ABBREVIATIONS

Acronym/ Abbreviation	Definition
ACOE	Army Corps of Engineers
ALUC	Airport Land Use Commission
APN	Assessor's Parcel Number
AQMP	Air Quality Management Plan
BOE	Bureau of Engineering
CAP	Climate Action Plan
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CNDDB	California Natural Diversity Data Base
CNPS	California Native Plant Society
CO	carbon monoxide
CO_2E	carbon dioxide equivalent
CR	California rare
CRPR	California Rare Plant Rank
CWA	Clean Water Act
EIR	Environmental Impact Report
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FT	federally threatened
GHG	greenhouse gas
IS	Initial Study
LADWP	Los Angeles Department of Water and Power
MG	million-gallon
MT	metric tons
NAHC	Native American Heritage Commission
NO_2	nitrogen dioxide
O_3	ozone
OHWM	ordinary high water mark
PM_{10}	particulate matter with a diameter less than or equal to 10 microns (coarse particulate matter)
$PM_{2.5}$	particulate matter with a diameter less than or equal to 2.5 microns (fine particulate matter)
RWQCB	Regional Water Quality Control Board
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District
SO_2	sulfur dioxide
SR-	state route

Acronym/ Abbreviation	Definition
SSC	state species of special concern
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
WL	Watch List

1 INTRODUCTION

1.1 Project Overview

The De Soto Tanks Project (proposed project) is a water storage project that is being proposed by the Los Angeles Department of Water and Power (LADWP). The project would functionally replace the existing 3-million-gallon (MG) De Soto Reservoir, located at 11200 De Soto Avenue, with two buried, pre-stressed circular concrete storage tanks immediately north of the existing reservoir site. The combined operating storage capacity upon completion of the new storage tanks would be approximately 20 MG. These tanks would provide additional local storage to increase operational effectiveness, reliability, and flexibility; system redundancy; and emergency supply to the West San Fernando Valley.

1.2 California Environmental Quality Act

The California Environmental Quality Act (CEQA) applies to proposed projects initiated by, funded by, or requiring discretionary approvals from state or local government agencies. The proposed project constitutes a project as defined by CEQA (California Public Resources Code, Section 21065). LADWP, as a municipal utility, would implement and operate the proposed project and will therefore act as the CEQA lead agency.

An Initial Study (IS) has been prepared by LADWP as the lead agency in accordance with CEQA guidelines to determine if the proposed project could have the potential to cause significant adverse environmental impacts. Based on the conclusions of the Initial Study evaluation (contained in Section 3), LADWP has determined that he proposed project may have a significant impact and, therefore, will prepare an Environmental Impact Report (EIR) pursuant to CEQA. Since some impacts evaluated in the Initial Study would not be potentially significant, LADWP proposes to eliminate them from detailed evaluation in the EIR.

1.3 Project Location

The proposed project site is located at 11200 De Soto Avenue, in the Chatsworth community of City of Los Angeles. The project site is generally bounded by the 118 Freeway to the north, De Soto Avenue to the west, Rinaldi Street to the south and east. Adjacent to the De Soto Reservoir property on the east side, is an undeveloped, privately-owned parcel of land that would be acquired in order to facilitate construction of the proposed project. The project is located in Council District No. 12 and in the Chatsworth Neighborhood Council area. See Figure 1, Regional Map and Figure 2, Vicinity Map.

1.4 Environmental Setting

The proposed project would occur on several assessor's parcels owned by LADWP. The southernmost parcel (APN 2706007901) is developed with the existing De Soto Reservoir, which would be removed after completion of the

proposed tanks. The two northernmost parcels (APNs 2701003907 and 2707001904) are essentially undeveloped. An additional undeveloped parcel (APN 2707001019), not owned by LADWP, is proposed for acquisition to facilitate project construction. The project site is highly disturbed, consisting primarily of ruderal vegetation that is maintained through mowing and/or tilling. A 12-foot wide dedicated equestrian trail easement extends from Rinaldi Street on the south adjacent to the eastern edge of the southernmost LADWP parcel, where the reservoir is located. This formal easement does not continue across the northernmost LADWP parcels, but LADWP has allowed equestrian access across these parcels between Rinaldi Street on the east and the dedicated equestrian easement on the west. Throughout construction and operation of the proposed project, equestrian access would be maintained.

Existing development that adjoins the LADWP property includes Sierra Canyon School to south/southeast of the project site and residential properties to the southwest. Undeveloped property adjoins the LADWP property to the south, west, and northeast. The 118 Freeway is located directly north of the project site. Surrounding uses include Sierra Canyon School to the west of De Soto Avenue, residential development south and southeast of Rinaldi Street, and open space and residential development north of the 118 Freeway. See Figure 2.

1.5 References

City of Los Angeles. 2017. *Chatsworth-Porter Ranch Circulation*. Department of City Planning, Information Technologies Division. February 2, 2017. Accessed June 13, 2017. https://planning.lacity.org/.

County of Los Angeles. 2016. "Figure 7.3 Highway Plan Policy Map" in *Los Angeles County General Plan*. Adopted October 6, 2016. Accessed June 13, 2017. http://planning.lacounty.gov/generalplan/generalplan.

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FIGURE 1

Regional Map

LADWP De Soto Tanks Project

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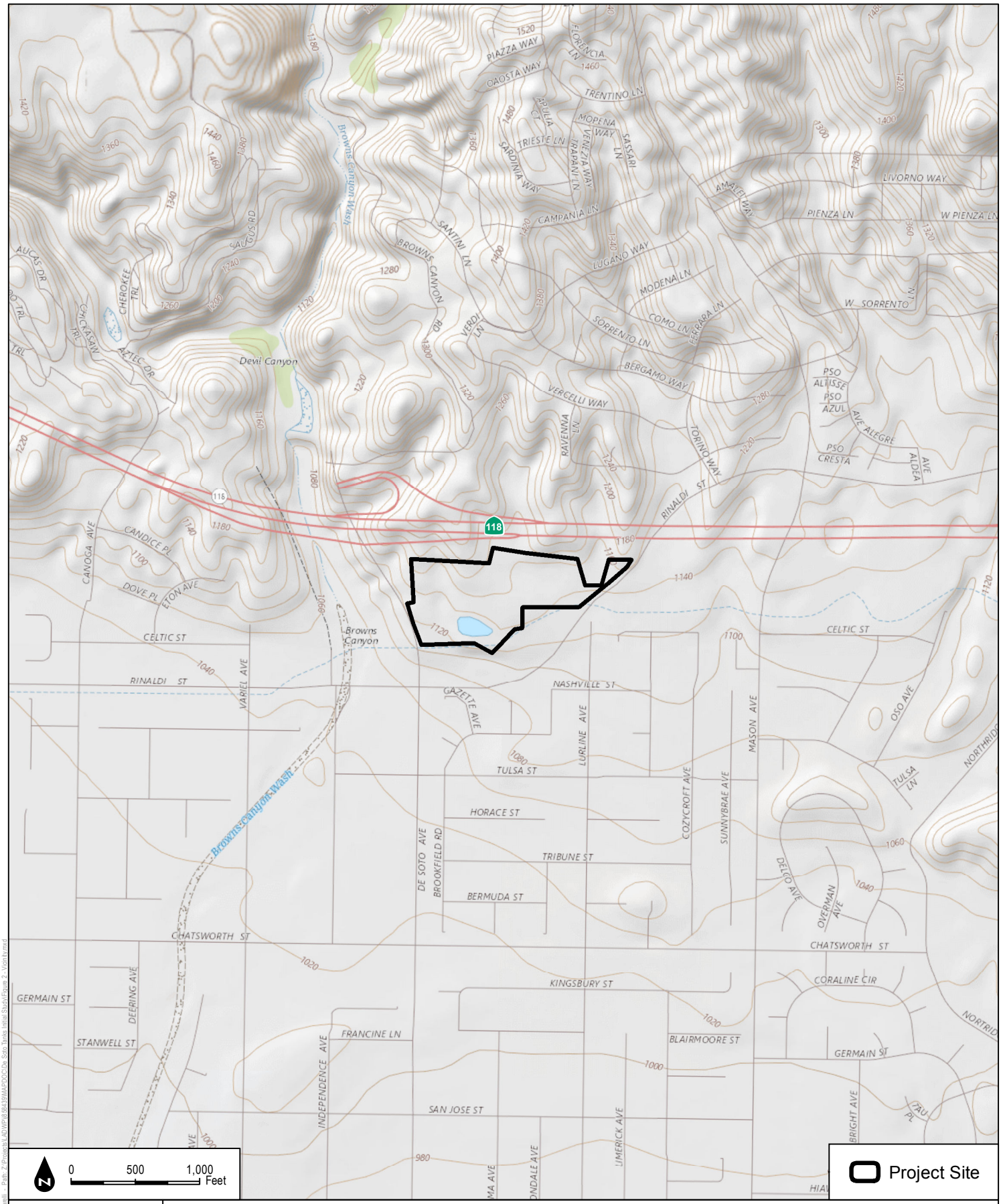

DUDEK

SOURCE: USGS 7.5-Minute Series Oat Mountain Quadrangle

FIGURE 2
Vicinity Map

LADWP De Soto Tanks Project

Date: 7/7/2017 - Last saved by ahagarty - Path: Z:\Projects\LADWP\8.8430\MAP\DOCS\De Soto Tanks Initial Study\Figure 2 - Vicinity.mxd

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2 PROJECT DESCRIPTION

2.1 Background

The De Soto Tanks Project (proposed project) is a water storage project that is being proposed by the Los Angeles Department of Water and Power (LADWP). The project would functionally replace the existing 3-MG De Soto Reservoir, located at 11200 De Soto Avenue, with two buried, pre-stressed circular concrete storage tanks immediately north of the existing reservoir site. The combined operating storage capacity upon completion of the new storage tanks would be approximately 20 MG. These tanks would provide additional local storage to increase operational effectiveness, reliability, and flexibility; system redundancy; and emergency supply to the West San Fernando Valley (see Figure 3, Site Plan).

The existing De Soto Reservoir, located in the northwestern area of the San Fernando Valley, was built in 1941. It has a base elevation of 1,100 feet above mean sea level and a high water level of 1,123 feet. In order to maintain appropriate operating pressure, the two proposed buried pre-stressed concrete tanks would have a base elevation of 1,100 feet, a high water level of 1,130 feet, and a top of tank elevation of 1,140 feet. Excavation at the proposed project site would be required to bury the tanks, which would be approximately 240 feet in diameter and 40 feet in height, below existing grade level in order to achieve these target elevations.

Construction of the De Soto Tanks Project would also require the installation of new inlet pipelines that would connect to the LADWP Rinaldi Trunk Line and outlet pipelines that would connect to the LADWP De Soto Trunk Line and Granada Trunk Line. These new lines would be a total of approximately 2,500 linear feet and would be located entirely within the proposed project site on LADWP property. A new regulator station would also be required to reduce water pressure from the Rinaldi Trunk Line originating at the Los Angeles Aqueduct Filtration Plant, which is located in Sylmar and has an 1190-foot high water elevation.

Upon completion of the De Soto Tanks, a new pump station (the De Soto Pump Station) would be constructed in the location of the De Soto Reservoir, which would be removed. The pump station would be used to more efficiently and effectively supply water to various pressure zones in the distribution system of the west San Fernando Valley.

2.2 Construction

The proposed project involves excavation of the site north of the existing De Soto Reservoir to a depth of approximately 50 feet, followed by the construction of two pre-stressed concrete tanks, each of which would be approximately 240 feet in diameter and approximately 40 feet in height. Excavated material would be hauled from the project site via the 118 Freeway to a facility permitted to accept excavated soil materials. Upon completion of the tanks, the existing reservoir would be demolished in order to facilitate construction of the future pump station.

Excavation for the tanks would involve the use of heavy equipment, including excavators, front loaders, and dozers. Based on preliminary estimates, approximately 350,000 loose cubic yards of soil would need to be excavated at the project site to

accommodate the tanks. Some of this material would be used to backfill around the tanks once they are constructed. However, the majority of the excavated material would be hauled off site, requiring several thousand truck trips. Excavation and hauling would occur over a period of about 8 months. After excavation, the tank construction would entail the installation of inlet/outlet pipes, a reinforced concrete floor, the erection of scaffolding for the walls and roof, the installation of wall and roof panels, the construction of columns to support the roof, wrapping the tanks with pre-stressing cables, and the application of concrete on the walls and roof. This process would involve the delivery of materials and concrete and the use of heavy equipment, including cranes and concrete pump trucks.

After completion of the tanks, the area surrounding the tanks would be backfilled, and a perimeter road would be constructed around the tanks for maintenance access. All cut slopes from excavation would be properly stabilized and revegetated. Although the tanks themselves would be buried, the roof of the tanks would not be covered. However, the top of the tanks would be approximately 10 feet below the surrounding grade.

New pipelines, the inlets, and outlets pipelines of the tanks would be constructed on site. After completion of the tanks and pipelines, the existing De Soto Reservoir would be demolished and the new pump station would be constructed.

Access to and egress from the site during construction would be from Rinaldi Street on the east and/or De Soto Avenue on the west. Construction of the proposed project would take approximately 6 years to complete, beginning in late-2020.

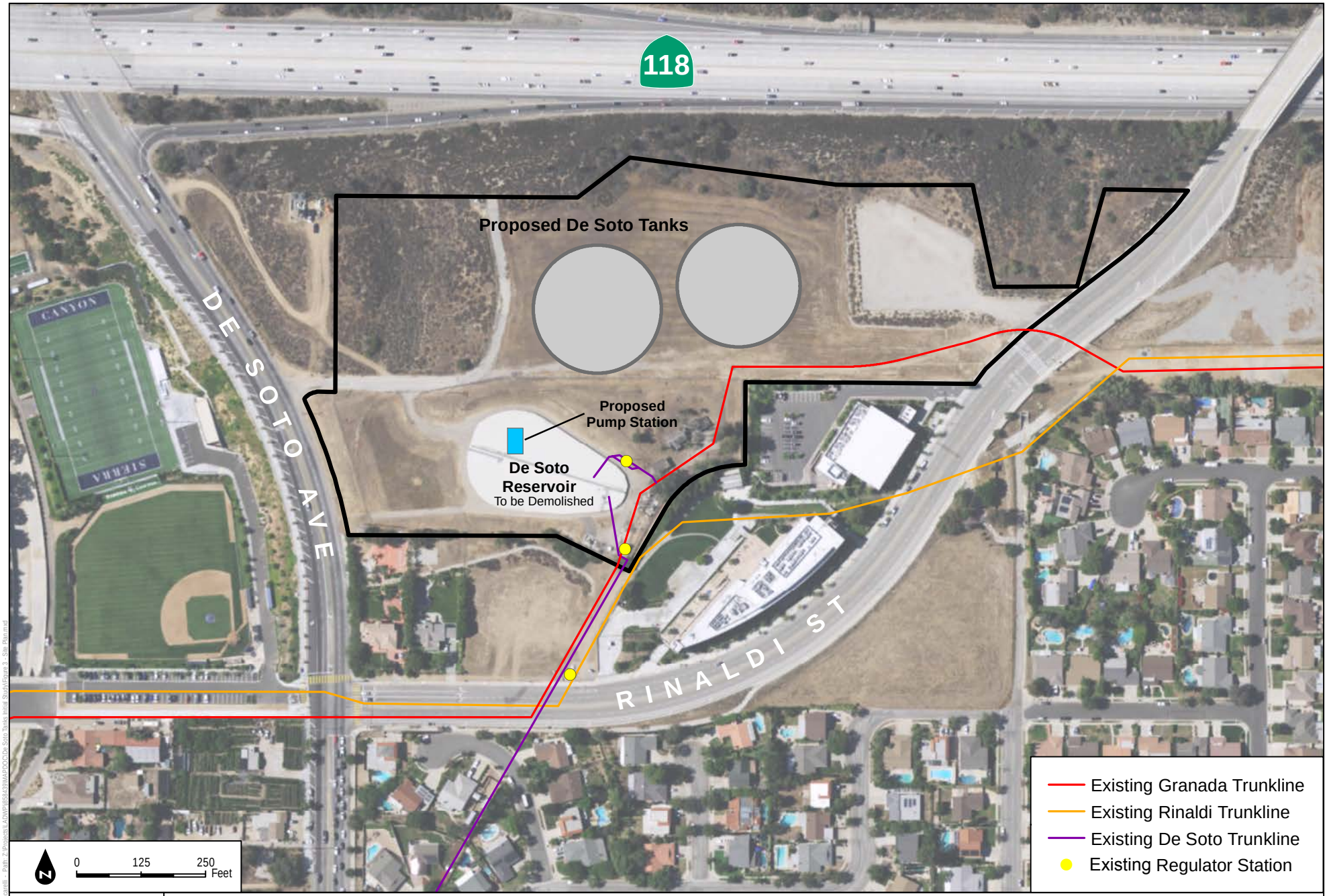
2.3 Operations

As discussed above, the proposed tanks would store potable water to increase operational effectiveness, reliability, and flexibility; system redundancy; and emergency supply to the West San Fernando Valley. The proposed pressure regulator station would reduce the water pressure coming from Los Angeles Aqueduct Filtration Plant, which has an 1190-foot high water elevation, to the De Soto Tanks, which have a 1130-foot high water elevation. The proposed De Soto Pump Station would pump water from the De Soto Tanks to the 1305-ft pressure zone in the southwest valley. No workers would be required to operate these facilities on a daily basis; however, these facilities would require regular maintenance. As such, operational activities would be essentially the same as those that occur under existing conditions.

2.4 Discretionary Approvals Required for the Project

The following discretionary permits and approvals may be required for the proposed project:

- Permit from Los Angeles Department of Public Works Bureau of Engineering (BOE) for excavation in a public right of way
- Permit from Los Angeles Department of Building and Safety for haul route
- Permit from California Department of Transportation (Cal Trans), if temporary shoring tie-backs encroach onto Cal Trans property
- Permit from Los Angeles Department of Transportation for traffic control plans and lane closures



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SOURCE: LADWP

FIGURE 3

Site Plan

LADWP De Soto Tanks Project

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3 INITIAL STUDY CHECKLIST

The following discussion of potential environmental effects was completed in accordance with Section 15063(d)(3) of the CEQA Guidelines (2017) to determine if the proposed project may have a significant effect on the environment.

1. Project title:

De Soto Tanks Project

2. Lead agency name and address:

Los Angeles Department of Water and Power
Environmental Services
111 North Hope Street, Room 1044
Los Angeles, California 90012

3. Contact person and phone number:

Brian Gonzalez
Environmental Planning and Assessment
Los Angeles Department of Water and Power
213.367.2612

4. Project location:

11200 De Soto Avenue
Los Angeles, California 91311

5. Project sponsor's name and address:

Los Angeles Department of Water and Power
111 North Hope Street
Los Angeles, California 90012

6. City Council District:

District 12

7. Neighborhood Council District

Chatsworth Neighborhood Council

8. General plan designation:

- 11050 De Soto Avenue (APN 2701003907): Very Low II Residential, Existing "K" Equine-keeping District under the Chatsworth-Porter Ranch Community Plan
- 11200 De Soto Avenue (APN 2706007901): Very Low II Residential
- 11101 North Lurline Avenue (APN 2707001904): Very Low II Residential, Existing "K" Equine-keeping District under the Chatsworth-Porter Ranch Community Plan
- APN 2806001903: Very Low II Residential
- APN 2706001***: Very Low II Residential
- APN 2707001019: Very Low II Residential, designated Very Low I Housing in the Porter Ranch Land Use and Transportation Specific Plan
- De Soto Avenue is identified as a Boulevard II in the City of Los Angeles' Chatsworth-Porter Ranch Circulation Map and a Major Existing Highway in the County of Los Angeles General Plan

9. Zoning:

- 11050 De Soto Avenue (APN 2701003907): A1-1 (Agriculture Zone), ZI No.2438: Equine-keeping in the City of Los Angeles, ZI No. 2427: Freeway Adjacent Advisory Notice for Sensitive Uses
- 11200 De Soto Avenue (APN 2706007901): A2-1 (Agricultural Zone), ZI No.2438: Equine-keeping in the City of Los Angeles, ZI No. 2427: Freeway Adjacent Advisory Notice for Sensitive Uses
- 11101 North Lurline Avenue (APN 2707001904): A1-1 (Agriculture Zone), ZI No.2438: Equine-keeping in the City of Los Angeles, ZI No. 2427: Freeway Adjacent Advisory Notice for Sensitive Uses
- APN 2806001903 and APN 2706001***: RA-1 (Suburban Zone), ZI No.2438: Equine-keeping in the City of Los Angeles, ZI No. 2427: Freeway Adjacent Advisory Notice for Sensitive Uses, ZI No. 2462: Modifications to Single-Family Zones and Single-Family Zone Hillside Area Regulations
- APN 2707001019: RE20-1 (Residential Estate Zone), ZI No.2438: Equine-keeping in the City of Los Angeles, ZI No. 2427: Freeway Adjacent Advisory Notice for Sensitive Uses, ZI No. 2462: Modifications to Single-Family Zones and Single-Family Zone Hillside Area Regulations

10. Description of project:

The De Soto Tanks Project (proposed project) is a water storage project that is being proposed by the Los Angeles Department of Water and Power (LADWP). The project would replace the existing 3-MG De Soto Reservoir, located at 11200 De Soto Avenue, with two buried, pre-stressed concrete circular storage tanks immediately north of the existing reservoir site. The combined operating storage capacity upon completion of the new storage tanks would be approximately 20 MG. These tanks would provide additional local storage to

increase operational effectiveness and flexibility, system redundancy, and emergency supply to the West San Fernando Valley.

11. Surrounding land uses and setting:

Existing development that adjoins the LADWP property includes Sierra Canyon School to south/southeast of the project site and residential properties to the southwest. Undeveloped property adjoins the DWP property to the south, west, and northeast. The 118 Freeway is located directly north of the project site. Surrounding uses include Sierra Canyon School to the west of De Soto Avenue, residential development south and southeast of Rinaldi Street, and open space and residential development north of the 118 Freeway.

12. Other public agencies whose approval is required:

13. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, has consultation begun?

LADWP requested a listing of tribes to notify from the Native American Heritage Commission (NAHC). The NAHC provided the list on July 28, 2017, and LADWP subsequently sent letters on August 25, 2017 to each of the eight tribes identified by NAHC. To date, no tribes have contacted LADWP requesting consultation.

Note: Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process. (See Public Resources Code section 21083.3.2.) Information may also be available from the California Native American Heritage Commission's Sacred Lands File per Public Resources Code section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that Public Resources Code section 21082.3(c) contains provisions specific to confidentiality.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact," as indicated by the checklists on the following pages.

☐ Aesthetics	☐ Agriculture and Forestry Resources	☒ Air Quality
☒ Biological Resources	☒ Cultural Resources	☐ Geology and Soils
☒ Greenhouse Gas Emissions	☐ Hazards and Hazardous Materials	☒ Hydrology and Water Quality
☐ Land Use and Planning	☐ Mineral Resources	☒ Noise
☐ Population and Housing	☐ Public Services	☐ Recreation
☒ Transportation and Traffic	☐ Tribal Cultural Resources	☒ Utilities and Service Systems
☒ Mandatory Findings of Significance		

DETERMINATION

On the basis of this initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☐ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☒ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature Date

EVALUATION OF ENVIRONMENTAL IMPACTS

1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an Environmental Impact Report (EIR) is required.
4. "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analyses," as described in (5) below, may be cross-referenced).
5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
    a. Earlier Analysis Used. Identify and state where they are available for review.
    b. Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
    c. Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
7. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.

8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.

9. The explanation of each issue should identify:

   d. The significance criteria or threshold, if any, used to evaluate each question; and

   e. The mitigation measure identified, if any, to reduce the impact to less than significance.

3.1 Aesthetics

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☒	☐
b) Substantially damage scenic resources including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☒	☐
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	☐	☐	☒	☐
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☐	☒

a) Would the project have a substantial adverse effect on a scenic vista?

Less Than Significant Impact. Scenic vistas generally refer to views of expansive open space areas or other natural features, such as mountains, undeveloped hillsides, large natural water bodies, or coastlines. Less commonly, certain urban settings or features, such as a striking or renowned skyline, may also represent a scenic vista. Under CEQA, scenic vistas also generally, although not exclusively, refer to views that are accessible to broader segments of the public, rather than those available to a limited number of private entities. The proposed project site is not located within such a scenic vista and is generally not visible from areas off site. Furthermore, the proposed tanks would be located below grade. As such, the tanks would not generally be visible from outside of the project site nor would they obscure any existing scenic vistas. The proposed inlet/outlet trunk line would also be located below grade and thus would not be visible. As such, impacts to scenic vistas would be less than significant. This issue will not be further analyzed in the EIR.

b) Would the project substantially damage scenic resources including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

Less Than Significant Impact. The proposed project is located within 250 feet of the 118 Freeway, a City designated scenic freeway (City of Los Angeles 2014) and an eligible state scenic highway (Caltrans 2011). In addition, the portion of Rinaldi Street approximately 500 feet to the west and 650 feet to the south of the project site is designated as a Scenic Major Highway II and a Scenic Secondary Highway by the City of Los Angeles (City of Los Angeles 2014). However, due to intervening terrain and vegetation directly south of the 118 Freeway and the fact that project facilities would be subterranean, the proposed project would not be visible from the 118 Freeway. Views of the proposed site are largely obscured from Rinaldi Street due to intervening elements, such as structures and trees. Furthermore, the tanks and the proposed inlet/outlet trunk line would be underground and would not be visible from Rinaldi Street. For this reason, impacts to scenic highways would be less than significant. This issue will not be further analyzed in the EIR.

c) Would the project substantially degrade the existing visual character or quality of the site and its surroundings?

Less Than Significant Impact. With the exception of the existing reservoir, proposed to be removed, the site is largely undeveloped with a few transmission towers present. As described above, the project would be located below grade and would not be visible outside of the project site. Therefore, the proposed project would not significantly alter the existing visual character and quality of the site and its surroundings, and impacts would be less than significant. This issue will not be further analyzed in the EIR.

d) Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

No Impact. It is expected that construction of the proposed project would only occur during daytime hours, between 7:00 am and 6:00 pm, Monday through Friday, and, if necessary, between 8:00 am and 5:00 pm on Saturday. As such, no sources of light at the site would be introduced during construction of the proposed project. During operation of the proposed project, no new substantial sources of light and glare would be present. As such, impacts would be less than significant, and this issue will not be further analyzed in the EIR.

References

California Department of Transportation (Caltrans). 2011. California Scenic Highway Mapping System. September 7 2011. http://www.dot.ca.gov/hq/LandArch/16_livability/scenic_highways/. Accessed May 18 2017.

City of Los Angeles. 2014. Chatsworth – Porter Ranch Community Plan. General Plan Land Use Map. August 20 2014.

3.2 Agriculture and Forestry Resources

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☒	☐
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☒	☐
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☒	☐

a) Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

No Impact. The project site does not contain land that is designated as Farmland on maps prepared pursuant to the Farmland Mapping and Monitoring Program (California Department of Conservation 2014). As such, the proposed project would not convert Farmland to a non-agricultural use, and no impact would occur. This issue will not be further analyzed in the EIR.

b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?

Less Than Significant Impact. The northernmost and easternmost portions of the project site are Zoned A1-1 (Agricultural Zone) and designated Very Low II Residential in the City of Los Angles General Plan (City of Los Angeles 2017). The southern portion of the project site, where the existing reservoir is located is Zoned A2-1 (Agricultural Zone) and designated Very Low II Residential in the City of Los Angeles General

Plan (City of Los Angeles 2017). The property adjacent to the project site to the east is an undeveloped, privately-owned parcel which LADWP proposes to acquire. The property is adjacent to the proposed tanks site to the east is zoned RE20-1 (Residential Estate Zone) and designated Very Low II Residential in the City of Los Angeles General Plan (City of Los Angeles 2017).

The proposed project site has been owned by LADWP for approximately 80 years as part of the De Soto Reservoir property. The project site has never been utilized for agriculture or any use other than water storage and conveyance. Thus, the proposed water tanks would be consistent with the historical use of water storage on the LADWP property. Since no agricultural use has ever occurred on the property, the property is not subject to a Williamson Act contract. Impacts would be less than significant. This issue will not be further analyzed in the EIR.

c) Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

No Impact. Although the site contains some tree cover, it is not considered forest land, timberland, or a timberland production zone as defined in the California Public Resources Code or Government Code. As such, no impact would occur, and this issue will not be further analyzed in the EIR.

d) Would the project result in the loss of forest land or conversion of forest land to non-forest use?

Less Than Significant Impact. As described under Section 3.2(c), the project site does not contain forest land. It would not result in the loss of forest land or conversion of forest land to non-forest use. Impacts would be less than significant and this issue will not be further analyzed in the EIR.

e) Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

Less Than Significant Impact. There is no farmland or forest land within the project site or on adjacent parcels. The project would increase overall water supply, but rather increase the reliability of water supply. Thus, it would not contribute to growth that may lead to the conversion of farmland or forest land. There would be no potential for construction or operation of the proposed project to convert farmland to non-agricultural use or forest land to non-forest use, either directly or indirectly. Impacts would be less than significant. This issue will not be further analyzed in the EIR.

References

California Department of Conservation. 2014. *California Important Farmland Finder.* Accessed May 18 2017. http://maps.conservation.ca.gov/ciff/

California Department of Conservation. 2015. *State of California Williamson Act Contract Land.* [map]. Accessed May 18, 2017. http://www.conservation.ca.gov/dlrp/lca/Pages/Index.aspx

City of Los Angeles. 2017. Zimas. "Planning and Zoning." Web Map Application. Accessed May 18, 2017. http://zimas.lacity.org/

3.3 Air Quality

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?	☒	☐	☐	☐
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	☒	☐	☐	☐
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	☒	☐	☐	☐
d) Expose sensitive receptors to substantial pollutant concentrations?	☒	☐	☐	☐
e) Create objectionable odors affecting a substantial number of people?	☐	☐	☒	☐

a) Would the project conflict with or obstruct implementation of the applicable air quality plan?

Potentially Significant Impact. The proposed project is located in the South Coast Air Basin (SCAB), which is under the jurisdiction of the SCAQMD. The most recent applicable air quality plan is the SCAQMD 2016 Air Quality Management Plan (AQMP), which includes reduction and control measures that are outlined to mitigate emissions based on existing and projected land use and development. The SCAQMD has established criteria for determining consistency with the 2016 AQMP in Chapter 12, Sections 12.2 and 12.3 of the SCAQMD *CEQA Air Quality Handbook* (SCAQMD 1993). These criteria are:

- **Consistency Criterion No. 1**: The proposed project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay the timely attainment of air quality standards of the interim emissions reductions specified in the AQMP.
- **Consistency Criterion No. 2**: The proposed project will not exceed the assumptions in the AQMP or increments based on the year of project buildout and phase.

Due to the extensive excavation required for the proposed project, as well as the haul truck trips required to remove the excavated soil, there is the potential for the project to result in significant air quality impacts. As such, the EIR will evaluate the project's consistency with the SCAQMD 2016 AQMP based on the SCAQMD guidance.

b) Would the project violate any air quality standard or contribute substantially to an existing or projected air quality violation?

Potentially Significant Impact. The proposed project would be required to comply with all relevant federal, state, and local air quality regulations, including acquisition of a permit to construct, permit to operate, and permit for demolition from SCAQMD. Nonetheless, the proposed project would generate short-term criteria air pollutant emissions associated with large scale excavation of soil, pollutant emissions associated with entrained dust (earth movement), and internal combustion engines used by on-site construction equipment and from off-site worker vehicles and truck trips. Minimal impacts to air quality would occur during operation of the proposed project. However, impacts from construction, while temporary, would be potentially significant and will be further analyzed in the EIR.

c) Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?

Potentially Significant Impact. The SCAB is designated as a nonattainment area for both federal and state ozone (O_3) standards and fine particulate matter ($PM_{2.5}$) standards. The SCAB is designated as a nonattainment area for state PM_{10} standards; however, it is designated as an attainment area for federal PM_{10} standards. The SCAB is designated as an attainment area under the state and federal standards for nitrogen dioxide (NO_2), carbon monoxide (CO), and sulfur dioxide (SO_2) standards. While the SCAB has been designated as nonattainment for the federal rolling 3-month average lead standard, it is designated attainment for the state lead standard (EPA 2017; CARB 2016). Air quality emissions anticipated to result from construction of the proposed project could be potentially significant and as such will be quantified as part of the EIR. This analysis will indicate whether the proposed project would result in a cumulatively considerable net increase in criteria air pollutants for which the SCAB has been designated non-attainment.

d) Would the project expose sensitive receptors to substantial pollutant concentrations?

Potentially Significant Impact. According to the SCAQMD, sensitive receptors include residences, schools, playgrounds, childcare centers, long-term healthcare facilities, rehabilitation centers, convalescent centers, and retirement homes. Exhaust from construction equipment and vehicles would release air pollutants to the atmosphere. The project site is located adjacent to Sierra Canyon School and within 600 feet of residential uses. Therefore, construction of the proposed project may have potential to expose sensitive receptors to

increased pollutant concentrations. No equipment or activities are proposed during project operations; thus, minimal to no impacts to air quality would occur during operation of the proposed project. However, due to potentially significant air quality impacts to sensitive receptors during construction, this issue will be further analyzed in the EIR.

e) Would the project create objectionable odors affecting a substantial number of people?

Less Than Significant Impact. Odor is a form of air pollution that is possibly most obvious to the general public. Odors can present significant problems for the source and its surrounding community. The occurrence and severity of potential odor impacts depends on numerous factors. The nature, frequency, and intensity of the source; the wind speeds and direction; and the sensitivity of receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying and cause concern.

Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting, refineries, landfills, and dairies (SCAQMD 1993). The project entails construction of two buried water storage tanks, a pump station, a pressure regulating station, and a buried inlet/outlet trunk line and would not result in the creation of a land use that is associated with odors. Potential sources that may omit odors during construction of the proposed project would include diesel equipment, gasoline fumes, and asphalt paving materials from the installation of the proposed trunk line. Additionally, the proposed project involves significant soil excavation which may create odors. However, odors from these sources would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. In addition, the proposed project would use typical construction techniques to reduce odors in compliance with SCAQMD rules. As such, the construction of the proposed project would not cause an odor nuisance, and odor impacts would be less than significant. This issue will not be further analyzed in the EIR.

References

CARB (California Air Resources Board). 2016. *State Area Designations*. Area Designations Maps / State and National. Last reviewed May 5, 2016. http://www.arb.ca.gov/desig/adm/adm.htm.

EPA (U.S. Environmental Protection Agency). 2017. "Region 9: Air Quality Analysis, Air Quality Maps." Last updated March 7, 2017. https://www3.epa.gov/region9/air/maps/#cal.

SCAQMD (South Coast Air Quality Management District). 1993. *CEQA Air Quality Handbook*.

3.4 Biological Resources

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☒	☐	☐	☐
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☒	☐	☐	☐
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☒	☐	☐	☐
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☒	☐	☐	☐
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☒	☐	☐	☐
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

a) Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

Potentially Significant Impact. A biological reconnaissance site visit was performed on June 20, 2017, which included a survey of the project site plus a 500-foot area from the perimeter of the project site (study area). No special-status plants species were identified on site during the site visit, which occurred during the blooming period for most special-status plants with potential to occur within the study area based on a review of California Department of Fish and Wildlife (CDFW) California Natural Diversity Data Base (CNDDB) (CDFW 2017) and California Native Plant Society (CNPS 2017) 9-quadrangle search. The majority of the project site is compacted and overgrown with mustards (*Brassica nigra* and *Hirschfeldia incana*), providing limited potential to support special-status plant species. A smaller portion of coastal sage scrub habitat dominated by California buckwheat (*Eriogonum fasciculatum var. foliolosum*) occurs within the northwestern portion of the site. Although it is unlikely for special-status plants to occur within the compacted areas dominated by mustards, there is moderate or high potential for four special-status plant species to occur within the coastal scrub habitat on-site. Special-status plant species with potential to occur include Santa Susana tarplant (*Deinandra minthornii*; California rare (CR), CNPS California Rare Plant Rank (CRPR) 1B.2); Robinson's pepper-grass (*Lepidium virginicum* var. *robinsonii*; CNPS CRPR 4.3); white rabbit-tobacco (*Pseudognaphalium leucocephalum*; CNPS CRPR 2B.2); and chaparral ragwort (*Senecio aphanactis*; CNPS CRPR 2B.2).

Although no special-status wildlife species were observed during the site visit, two special-status bird species have a moderate potential to occur within the study area based on a 9-quadrangle review of CNDDB (CDFW 2017): coastal California gnatcatcher (*Polioptila californica*; federally threatened [FT]; state species of special concern [SSC]); and Cooper's hawk (*Accipiter cooperii*; CDFW Watch List species [WL]). The coastal sage scrub habitat within the northeastern portion of the project site, as well as the adjacent areas north of the project site provide suitable habitat to support coastal California gnatcatcher. The closest documented occurrence for the species is 6.5 miles east and 7.3 miles northwest of the project site; however, federally-designated critical habitat for this species exists within a mile northwest of the project site. Thus, based on suitable coastal scrub habitat and its range, coastal California gnatcatcher could occur on site. Additionally, Cooper's hawk have adapted to nesting in tall ornamental trees (e.g., *Eucalyptus* spp. and *Pinus* spp.) within developed areas, including commercial and industrial areas (Chiang et al. 2012). This species was not observed on site during the site visit; however, the ornamental trees within the study area provide suitable nesting habitat for this species, in addition to other nesting raptors. Thus, Cooper's hawk has a moderate potential to nest within the study area. Searches for suitable burrowing owl burrows, surrogates, and/or fossorial mammals were performed to determine potential for burrowing owl. No burrowing owls, signs, or suitable burrows were observed during the site visit. Additionally, the site is compacted and the majority of the project site is overgrown with mustards too dense to support burrowing owl. Thus, potential for burrowing owl occurrence is low.

Cooper's hawk is a CDFW watch list species, with no state and/or federal listing. Minimal impacts to potential foraging habitat are anticipated following project construction. However, direct permanent and temporary impacts may occur to special-status birds with moderate to high potential to nest within and adjacent to the project site. Construction activities conducted during the general nesting bird breeding season (February 1 through August 31) could disrupt breeding activity. Additionally, given that coastal sage scrub habitat suitable to support the federally listed coastal California gnatcatcher habitat would be impacted, focused coastal California gnatcatcher surveys are recommended for the project site. As such, impacts are potentially significant, and this issue will be further analyzed in the EIR.

b) Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

Potentially Significant Impact. The only sensitive vegetation community present at the project site is California buckwheat scrub; no riparian habitats occur on-site. Although California buckwheat scrub is not recognized as a sensitive vegetation community by California Department of Fish and Wildlife (CDFW; CDFG 2010a,b,c), this vegetation community has the potential to support the federally listed coastal California gnatcatcher. As such, if this species is determined to be present during focused surveys, occupied coastal California gnatcatcher habitat would be considered sensitive. Hence, impacts or substantial adverse effects on riparian or other sensitive natural communities are potentially significant. This issue will be further analyzed in the EIR.

c) Would the project have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

Potentially Significant Impact. There are several concrete drainage swales within and adjacent to the project site. A jurisdictional delineation of the project site would be required to determine whether or not these drainages are jurisdictional and, therefore, regulated by the U.S. Army Corps of Engineers (ACOE) acting under Section 404 of the Clean Water Act (CWA); the Regional Water Quality Control Board (RWQCB) acting under Section 401 of the CWA and the Porter-Cologne Act; and/or the CDFW acting under Sections 1600–1607 of the California Fish and Game Code. Additionally, a metal corrugated pipe is located along the southeastern extent of the project site, just west of Rinaldi Street. Run-off from the graded road and southeastern extent of the property appears to collect at the metal corrugated pipe, as is evident by two or three swales identified in the adjacent area during the site visit. These swales lacked an ordinary high water mark (OHWM) and/or bed or bank and appear to facilitate runoff from the graded road and areas north of the southeastern portion of the project site to the underground storm drain. Although the swales are unlikely to be jurisdictional, the storm drain is likely to connect with an existing underground channel southeast of its location, which runs parallel to Rinaldi Street; and thus, is potentially state and/or federally jurisdictional. As

such, impacts would be potentially significant. Although wetlands do not occur within the study area, there are a number of potentially jurisdictional state and/or federally jurisdictional waters that will be further analyzed in the EIR.

d) Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Potentially Significant Impact. The project site is located in proximity with urban environments to the north, west, south, and east, and is located immediately south of the 118 Freeway. The project site does not reside within any designated wildlife corridors or habitat linkages identified in the South Coast Missing Linkages analysis conducted by South Coast Wildlands (South Coast Wildlands 2008) or by the City of Los Angeles (1993). The South Coast Missing Linkages Report (2008) identifies the Santa Monica-Sierra Madre Connection as one of the few coastal to inland connections remaining in the South Coast Ecoregion. However, the Santa Monica-Sierra Madre Connection is located approximately 4.5 miles west of the project site and is separated from the project site by development. The Chatsworth-Porter Ranch Community Plan recognizes a wildlife corridor through the Simi Hills and Santa Susana Mountains to the Santa Monica Mountains and acknowledges the 118 Freeway as a major potential barrier to these corridors. Thus, culverts are required to be constructed under 118 Freeway in areas west of Topanga Canyon Boulevard (City of Los Angeles 1993). The project is located approximately 1.0 mile east of Topanga Boulevard, outside of any City designated wildlife corridors; thus, it would not result in impacts to this designated wildlife corridor.

Although the project site is not recognized as a wildlife corridor as per South Coast Wildlands (2008) or City of Los Angeles (1993), it has the potential to be occasionally used by wildlife in the area, particularly to access Monteria Lake approximately 0.76 mile east of the project site via a small strip of undeveloped lands, occurring south of the 118 Freeway. Additionally, Browns Canyon Wash is located approximately 0.25 mile west of the project site immediately north of the Sierra Canyon School Lower Campus field. Browns Canyon Wash supports riparian vegetation, flows beneath the 118 Freeway, and eventually provides connection with Santa Susana Mountains, as well as the Santa Monica-Sierra Madre Connection at its northern extent; thus, is likely to facilitate wildlife passage beneath the 118 Freeway to better quality open space areas north of the project site and the 118 Freeway. De Soto Avenue divides the project site from Browns Canyon Wash on its western extent, and serves as an underpass beneath the 118 Freeway. Thus, wildlife could access better quality open space areas from the project site by crossing De Soto Avenue to access and utilize Browns Canyon Wash. Therefore, although the project site is not part of a recognized linkage it has the potential to be utilized as a wildlife corridor to these undeveloped areas. Additionally, these areas could provide habitat for some more common species (i.e., common birds and desert cottontail). Hence, impacts or substantial adverse effects on movement of any native resident or migratory fish or wildlife species are potentially significant, and this issue will be further analyzed in the EIR.

Operation of the proposed project would still allow the area to be utilized by wildlife at the same capacity in which it is currently used. Construction of the underground storage tanks would not prohibit any potential current use as a wildlife corridor and habitat linkage; thus, operational impacts would be less than significant.

e) Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Potentially Significant Impact. One valley oak tree (*Quercus lobata*) is present east of the reservoir, and a number of western sycamore trees (*Platanus racemosa*) are present north and south of the project site. Valley oak and western sycamore trees are recognized as protected trees by the City of Los Angeles. The valley oak tree is located 40 feet east of the reservoir and has the potential to be impacted by the proposed project activities. Three western sycamore trees were identified north of the eastern extent of the project site. Two of these western sycamore trees are within 100 feet north of the project site. Although these trees are outside of the project site, these trees could be indirectly impacted by the proposed project activities and thus, should be analyzed further in the EIR. The western sycamore trees to the south of the project site appear to be planted and are unlikely to be protected under local policies or ordinances. Additionally, these trees are separated from the project site by a wall; and thus, are unlikely to be affected by the proposed project activities.

Further evaluation is needed to confirm the presence of both species and whether or not they are protected under local policies or ordinances. As such, impacts are considered potentially significant. This issue will be further analyzed in the EIR.

f) Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

No Impact. The project site is not located within an adopted Habitat Conservation Plan or Natural Community Conservation Plan (CDFW 2017). Additionally, the project does not conflict with the provisions of the Chatsworth-Porter Ranch Community Plan (City of Los Angeles 1193). As discussed above, the Chatsworth-Porter Ranch Community Plan recognizes a wildlife corridor through the Simi Hills and Santa Susana Mountains to the Santa Monica Mountains, which requires that culverts be constructed under SR-118 in areas west of Topanga Canyon Boulevard (City of Los Angeles 1993). The project is located approximately 1.0 mile east of Topanga Boulevard, outside of any recognized wildlife corridor; thus, no impact to this corridor would occur. Therefore, the proposed project would not conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan. No impact would occur and this issue will not be further evaluated in the EIR.

References

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3.5 Cultural Resources

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?	☒	☐	☐	☐
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	☒	☐	☐	☐

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☒	☐	☐	☐
d) Disturb any human remains, including those interred outside of formal cemeteries?	☒	☐	☐	☐

a) Would the project cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?

Potentially Significant Impact. The proposed project site is largely undeveloped. One structure, the De Soto Reservoir, was constructed in the early 1940's. Demolition of this structure has the potential to result in an adverse change to an historical resource. LADWP has conducted a cultural record search for the proposed project site and surrounding one-mile radius. The records search found that 30 previously recorded cultural resources were located within one mile of the project area, but none of these resources overlap with the project area. However, because the De Soto Reservoir was constructed more than 50 years ago, impacts to historical resources could be potentially significant and this issue will be further discussed in the EIR.

b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

Potentially Significant Impact. The proposed project would involve significant soil excavation during construction of the underground storage tanks. These ground-disturbing activities have the potential to damage or destroy intact subsurface archaeological resources or deposits that may be present. In the event that this happens, impacts could be significant. Although the cultural records search found no previously recorded cultural resources within the project area, the potential for discovery of resources during construction and soil disturbance is possible, and damage to or destruction of resources may result in significant adverse impacts on archaeological resources. The EIR will therefore discuss the potential for archaeological resources to be impacted by the proposed project and, if necessary, identify mitigation measures to reduce impacts of the proposed project on any archaeological resources that may be present.

c) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Potentially Significant Impact. The proposed project would involve significant soil excavation during construction of the underground storage tanks. These ground-disturbing activities have the potential to

damage or destroy paleontological resources that may be present below the ground surface. In the event that this happens, impacts could be significant. Although the cultural records search found no previously recorded cultural resources within the project area, the potential for discovery of resources during construction and soil disturbance is possible, and damage to or destruction of resources may result in significant adverse impacts on paleontological resources. The EIR will therefore discuss the potential for paleontological resources to be impacted by the proposed project and, if necessary, identify mitigation measures to reduce impacts of the proposed project on any paleontological resources that may be present.

d) Would the project disturb any human remains, including those interred outside of dedicated cemeteries?

Potentially Significant Impact. The proposed project would involve significant soil excavation during construction of the underground storage tanks. These ground-disturbing activities have the potential to disturb human remains that may be present below the ground surface. In the event that this happens, impacts could be significant. The EIR will therefore discuss the potential for human remains to be impacted by the proposed project and, if necessary, identify mitigation measures to reduce impacts of the proposed project on human remains that may be present.

3.6 Geology and Soils

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☒	☐
ii) Strong seismic ground shaking?	☐	☐	☒	☐
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv) Landslides?	☐	☐	☒	☐
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☒	☐

a) Would the project expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

Less Than Significant Impact. The proposed project site is not located within an Earthquake Fault Zone, formerly known as an Alquist-Priolo Earthquake Fault Zone, and is not traversed by any known active faults. The nearest active fault to the project site, as identified by the City of Los Angeles, is the Santa Susana fault, located approximately 2.9 miles from the project site. Fault rupture is not expected to occur on the project site (City of Los Angeles 2017). Impacts would therefore be less than significant, and this issue will not be further analyzed in the EIR.

ii) Strong seismic ground shaking?

Less Than Significant Impact. As with all areas in Southern California, the project site is located in a seismically active region, within which are numerous known earthquake faults. As stated in Section 3.6(a)(i), there is a known earthquake fault approximately 2.9 miles from the project site. As with most areas throughout Southern California, the site could be exposed to strong seismic ground shaking. However, the proposed tanks would be designed and constructed in accordance with the latest version of the California Building Code and the City of Los Angeles Building Code, and all other applicable federal, state, and local codes relative to seismic criteria. Additionally, the

proposed project would not exposure people or structures to potential adverse effects from strong ground shaking. As such, impacts would be less than significant, and this issue will not be further analyzed in the EIR.

iii) Seismic-related ground failure, including liquefaction?

Less Than Significant Impact. The project site has not been identified as being potentially susceptible to liquefaction (City of Los Angeles 2017). According to preliminary geotechnical investigations, the project site is not situated within the Liquefaction Hazard Zone. Liquefaction is generally considered possible when the depth to groundwater is less than about 50 feet below the ground surface. At the project site, the depth of groundwater is more than 50 feet below the ground surface. Thus, the potential for liquefaction is considered to be low. Impacts would be less than significant. This issue will not be further analyzed in the EIR.

iv) Landslides?

Less Than Significant Impact. The project site has not been mapped as a landslide hazards area (City of Los Angeles 2017). According to preliminary geotechnical investigations, the potential for landslides induced by seismic shaking is not anticipated to pose a significant hazard to the project site. Further, most of the project site is in a relatively flat-lying area where landslides would not be expected to occur. Based on an aerial photograph analysis and geologic reconnaissance, there is no geomorphic evidence of pre-existing landslides at the project site. Thus, there is a low potential for landslides to adversely affect the project.

The proposed project would involve extensive excavation during construction of the underground storage tanks. This excavation would occur in accordance with standard design practices, stability analyses will be performed, and grading measures, such as maximum slope gradients and benching, would be implemented to ensure stability of the slopes. Thus, it is not anticipated that slope failure and landslides will pose a significant hazard, and impacts would be less than significant. This issue will not be further analyzed in the EIR.

b) Would the project result in substantial soil erosion or the loss of topsoil?

Less Than Significant Impact. Construction of the proposed project would involve extensive excavation that would result in ground surface disturbance that could create the potential for erosion. As discussed in Section 3.6(a)(iv), above, construction would occur in accordance with standard design practices, stability analyses will be performed, and grading measures, such as maximum slope gradients and benching, would be implemented to ensure stability of the slopes. As such, impacts would be less than significant and this issue will not be further analyzed in the EIR.

c) Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

Less Than Significant Impact. As discussed in Section 3.6(a)(iii), the project site is not subject to seismically-related ground failure, including liquefaction or lateral spreading. The project would not involve the extraction of groundwater such that subsidence would occur. Further, as described in Section 3.6(a)(iv), construction would occur in accordance with standard design practices, stability analyses will be performed, and grading measures such as maximum slope gradients and benching, would be implemented to ensure stability of the slopes. Thus, it is not anticipated that slope failure and landslides will pose a significant hazard. Impacts would be less than significant, and this issue will not be further analyzed in the EIR.

d) Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?

Less Than Significant Impact. Expansive soils are fine-grained soils that can undergo a significant increase in volume with an increase in water content and a significant decrease in volume with a decrease in water content. According to preliminary geotechnical investigations, the soils in the project area consist primarily of sand and gravel. Therefore, expansive soils are not considered to pose a significant hazard to the proposed project. As such, impacts would be less than significant, and this issue will not be further analyzed in the EIR.

e) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

Less Than Significant Impact. The proposed project would not require the use of septic tanks or other alternative wastewater disposal systems. During project construction, sanitary waste would be handled by temporary portable chemical toilets. The waste from temporary facilities would be removed by a private contractor and disposed of at an approved off-site location. During operation, the project would not require the use of septic tanks or other alternative disposal systems. As such, impacts would be less than significant. This issue will not be further analyzed in the EIR.

References

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3.7 Greenhouse Gas Emissions

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☒	☐	☐	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☒	☐	☐	☐

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Potentially Significant Impact. Greenhouse gas (GHG) emissions would be produced from project-related short-term construction activities. Construction activities would result in GHG emissions from heavy construction equipment, haul trips of excavated soil, truck traffic, and worker trips to and from the project site. As global climate change is a cumulative impact, the proposed project would have a potential impact through its incremental contribution of GHG emissions combined with the cumulative increase of all other sources of GHGs. As such, impacts associated with GHGs would be potentially significant. The EIR will analyze GHG emissions and determine whether the proposed project would result in a significant cumulative increase in GHGs.

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Potentially Significant Impact. The City of Los Angeles released the GreenLA Climate Action Plan (CAP) in May 2007. The City's CAP includes goals, objectives, and actions to reduce GHG emissions within the City and create a more sustainable environment (City of Los Angeles 2007). In April 2015, the City of Los Angeles's Sustainable City Plan was released. Among other goals, the plan sets GHG emissions reduction targets of 45% by 2025, 60% by 2035, and 80% by 2050, all against a 1990 baseline, and GHG efficiency targets for Los Angeles's economy of improvement by 55% in 2025 and 75% in 2035 from 2009 baseline levels [1] (City of Los Angeles 2015). The second annual Sustainable City Plan report (2016–2017) determined that the City of Los Angeles's emissions are 20% below the 1990 baseline as of 2013, putting the City of Los Angeles nearly halfway to the 2025 plan reduction target of 45% below (City of Los Angeles 2017).

[1] GHG efficiency is the amount of GHG emissions emitted per dollar of economic productivity, which is assumed to be 44.5 MT CO_2E per million dollars of metro area gross domestic product in 2009 (City of Los Angeles 2015).

Further investigation is required to determine whether the proposed project would be consistent with applicable plans, policies, or regulations. Impacts are potentially significant, and this issue will be further analyzed in the EIR.

References

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3.8 Hazards and Hazardous Materials

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☒	☐
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☒	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☒	☐
d) Be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☐	☒
e) For a project located within an airport land use plan or, where such a plan has not been adopted,	☐	☐	☐	☒

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?				
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?	☐	☐	☐	☒
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	☐	☐	☒	☐

a) Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less Than Significant Impact. Small amounts of commonly used hazardous substances, such as gasoline, diesel fuel, lubricating oil, grease, and solvents would be used during construction of the proposed project. However, construction activities would be short-term in nature, and the type of materials that would be involved are not considered acutely hazardous. Furthermore, the routine handling, transport, and storage of these materials are subject to federal, state, and local health and safety requirements. In accordance with the City's Construction and Demolition Ordinance, all haulers and contractors responsible for handling construction and demolition waste must obtain a Private Waste Hauler Permit prior to collecting, hauling and transporting the waste from within the City, and construction and demolition waste can only be taken to City Certified processing facilities.

The operation of the proposed project would not involve hazardous materials. There is currently a chlorination station on site next to the existing reservoir. However, this station is currently not operational and would be demolished under the proposed project. Although injection ports for spot treatments would be required for the tanks, chemicals would not be stored on site. As such, the proposed project would not create a significant hazard the public or the environment through the routine transport, use, or disposal of hazardous materials. Impacts would be less than significant and will not be further analyzed in the EIR.

b) Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Less Than Significant Impact. As discussed under 3.8(a) above, although small amounts of commonly used hazardous substances would be used during construction, the type of materials would be limited and not be considered acutely hazardous. Additionally, currently there are no known conditions at the project site that would result in the reasonably foreseeable upset or accident conditions. As such, the proposed project would not increase hazards to the public involving upset or accidents. Impacts would be less than significant and this issue will not be further analyzed in the EIR.

c) Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Less Than Significant Impact. The proposed project is located adjacent to Sierra Canyon School Upper Campus and approximately 500 feet from Sierra Canyon School Lower Campus. However, as stated in discussions under 3.8(a) and 3.8(b), above, the project would involve limited amounts of commonly used hazardous substances during construction. The type of materials, including fuel, lubricating oil, grease, and solvents, would be limited, would not be considered acutely hazardous, and would be subject to federal, state, and local health and safety requirements. Impacts would be less than significant. This issue will not be further examined in the EIR.

d) Would the project be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

No Impact. The project site is not included on any hazardous waste site lists including the California Department of Toxic Substances Control's EnviroStor database, the State Water Resources Control Board's GeoTracker site, the Cortese list, the Superfund Site list, or other lists compiled pursuant to Section 65962.5 of the Government Code (CalEPA2017; California Department of Toxic Substances Control 2017; California State Water Resources Control Board 2017; U.S. EPA 2016, 2017). Therefore, the project would not create a significant hazard to the public or the environment and no impact would occur. No further analysis of this issue is required in the EIR.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?

No Impact. The proposed project site is not located within a two-mile radius of any public airport or public use airport. The closest airport to the project site is Van Nuys Airport, located approximately 7 miles

southeast of the project site. Additionally, no airport land use plans apply to the site. Therefore, the proposed project would not create an aircraft safety hazard for people residing or working in the project area, no impacts would occur, and no further analysis of this issue is required in the EIR.

f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

No Impact. The nearest private airstrip is Boeing De Soto Heliport – CN32, a private heliport, located 2.4 miles south of the project site, and Hughes-Canoga Park Heliport, located approximately 3 miles southwest of the project site. Due to the distance of these airstrips from the project site, no safety hazards would occur. This issue will not be further analyzed in the EIR.

g) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less Than Significant Impact. The City of Los Angeles adopted a multi-hazard emergency response plan in order to respond with maximum feasible speed and efficiency to disaster events. Construction of the proposed project would occur on LADWP property and thus would not conflict with an adopted emergency response plan or emergency evacuation plan. As such, impacts would be less than significant. This issue will not be further analyzed in the EIR.

h) Would the project expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

Less Than Significant Impact. The project site is largely undeveloped and located adjacent to mostly residential areas, with open space located to the north and northwest. According to the City of Los Angeles General Plan, the site is located within a Fire Buffer Zone (City of Los Angeles 1996). The project site is also designated Very High Severity Fire Zone by the City (City of Los Angeles 2017) Construction of the proposed project would involve brush clearance. According to the City's brush clearance requirements, owners of properties located in the Very High Fire Hazard Severity Zone shall maintain their property in accordance with the Fire Code, as outlined in the City of Los Angeles Municipal Code Section 57.322. LADWP would ensure compliance with the City's brush clearance requirements. Compliance with all codes and requirements to minimize the potential for impacts from wild fires would ensure that impacts are less than significant. This issue will not be further analyzed in the EIR.

References

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U.S. EPA (United States Environmental Protection Agency). 2017. Pacific Southwest Region 9, Site List, Search by County. Accessed May 19, 2017. http://yosemite.epa.gov/r9/sfund/r9sfdocw.nsf/WSOState!OpenView

3.9 Hydrology and Water Quality

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements?	☐	☐	☒	☐
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge	☐	☐	☒	☐

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?				
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?	☒	☐	☐	☐
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?	☒	☐	☐	☐
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	☒	☐	☐	☐
f) Otherwise substantially degrade water quality?	☐	☐	☒	☐
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	☐	☐	☐	☒
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	☐	☐	☐	☒
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	☐	☐	☐	☒
j) Inundation by seiche, tsunami, or mudflow?	☐	☐	☐	☒

a) Would the project violate any water quality standards or waste discharge requirements?

Less than Significant Impact. Construction of the proposed project could create the potential for erosion during excavation. However, construction activities would be subject to applicable requirements of the

SWRCB and RWQCB with respect to control of surface erosion, sedimentation, and runoff quality. LADWP would comply with these requirements, including preparation of a construction Stormwater Pollution Prevention Plan (SWPPP). Because implementation of the proposed project would collectively require construction activities resulting in land disturbance of more than 1 acre, through tank installation, pipe construction, and removal of the existing reservoir, LADWP would be required to obtain coverage under the Construction General Permit (SWRCB Order 2009-0009-DWQ, as amended), which pertains to pollution from grading and Project construction. Coverage under the Construction General Permit requires a qualified individual (as defined by the SWRCB) to prepare a SWPPP to address the potential for construction-related activities to contribute to pollutants within the proposed project's receiving waterways. The SWPPP must describe the type, location and function of structural measures to alleviate stormwater impacts and must demonstrate that the combination of measures selected are adequate to meet the discharge prohibitions, effluent standards, and receiving water limitations contained in the Construction General Permit. This would ensure that construction impacts would be less than significant. During operations, the proposed project would not contribute additional pollutant sources to the groundwater basin. As such, through compliance with construction regulations, impacts to water quality would be less than significant. This issue will not be further evaluated in the EIR.

b) Would the project substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (i.e., the production rate of pre-existing nearby wells would drop to a level that would not support existing land uses or planned uses for which permits have been granted)?

Less Than Significant Impact. Although the proposed project would not use local groundwater supplies, construction of the proposed storage tanks would require significant soil excavation. According to preliminary geotechnical investigations, no groundwater was encountered in the borings drilled during the investigation, and groundwater is not expected to constrain site preparation or construction of the tanks. As such, construction activities would not interfere with local groundwater recharge. Impacts are less than significant. This issue will not be further analyzed in the EIR.

c) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?

Potentially Significant Impact. One creek, Brown's Creek, is located 500 feet to the west of the project site. However, no impacts or alterations of the waterway would occur as a result of the proposed project. The construction of the proposed project would involve ground disturbance from excavation that could create the potential for erosion to occur. Further, the two storage tanks and additional structures would add impervious surfaces on the site, creating a potential to alter the existing drainage pattern. Although the construction

contractor would be required to implement methods to minimize erosion and sedimentation during construction and post construction operations, in accordance with the Construction General Permit described in Section 3.9(a), impacts to the existing drainage pattern on site would be potentially significant. Further analysis is required to ensure that potential alterations of the existing drainage courses and the increase in impervious surfaces on site would not result in substantial erosion or siltation on- or off- site. This issue will be further analyzed in the EIR.

d) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?

Potentially Significant Impact. As described in Section 3.9(c), one creek, Brown's Creek, is located 500 feet to the west of the project site. The proposed project would not result in the alteration of the course of Brown Creek. However, the proposed project would involve significant excavation to install two buried concrete water storage tanks. As such, during construction, the project would temporarily alter the drainage pattern of the site due to excavation, grading, and exposure of topsoil and has the potential to alter the existing drainage pattern on site. Further analysis is required to ensure potential alterations of existing drainage and the increase of impervious surfaces on site would not substantially increase the rate or amount of surface runoff resulting in flooding on- or off-site. In addition, Low Impact Development post best management practices may be applicable if developing 500 square feet or more pervious to impervious surface. As such, impacts are potentially significant. This issue will be further analyzed in the EIR.

e) Would the project create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

Potentially Significant Impact. The proposed project would involve an increase in impervious surfaces on site, attributable to the addition of two buried tanks. An increase in impervious surfaces has the potential to increase runoff and/or pollutants in the site runoff. The proposed project also involves the removal of the existing De Soto Reservoir, directly to the south of the storage tanks. There are two stormwater drains located to the southwest of the project site at the intersection of De Soto Avenue and Rinaldi Street, four stormwater catch basins to the southeast of the project site, and six catch basins further to the east along Rinaldi Street. These nearby catch basins would direct excess drainage from the proposed project to the municipal storm drain system (LADPW 2017). However, because the increase in impervious surfaces on the site, impacts would be potentially significant. This issue will be further analyzed in the EIR.

f) Would the project otherwise substantially degrade water quality?

Less Than Significant Impact. Based on the type and magnitude of activities anticipated during project construction and operations, and the fact that industrial waste discharges will be managed through a discharge

permit process with the RWQCB, and runoff will be managed during both construction and operations, the proposed project would not otherwise substantially degrade water quality. Impacts would be less than significant, and this issue will not be further analyzed in the EIR.

g) Would the project place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?

No Impact. The project site is not located within a 100-year flood hazard area as indicated on the Federal Emergency Management Agency (FEMA) Flood Insurance zone maps for Los Angeles County. The proposed project would not provide any new housing, nor would it increase the risk related to flood hazard for existing housing in the vicinity currently located outside the 100-year flood hazard area. Since no impact would occur, this issue will not be further analyzed in the EIR.

h) Would the project place within a 100-year flood hazard area structures which would impede or redirect flood flows?

No Impact. According to the most recent FEMA Flood Insurance Rate Map for the area and the City of Los Angeles General Plan Safety Element, the project site is not located within an area subject to a 100-year flood hazard. Therefore, no impact would occur, and this issue will not be further analyzed in the EIR.

i) Would the project expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?

No Impact. The proposed project involves the construction of two buried concrete water storage tanks, pipeline installation, and removal of the existing De Soto Reservoir. As such, the project would not increase the risk of loss, injury, or death involving flooding on the site or in the vicinity. No impact would occur, and this issue will not be further analyzed in the EIR.

j) Inundation by seiche, tsunami, or mudflow?

No Impact. The tsunami inundation hazard maps, published by the California Department of Conservation, show that the project site is not within a tsunami inundation zone (State of California Department of Conservation 2016). While the proposed project would involve the construction of two buried concrete water storage tanks, these tanks would be enclosed and below grade and would therefore not pose a seiche hazard. As such, no impacts would occur, and this issue will not be further analyzed in the EIR.

References

State of California Department of Conservation. Los Angeles County *Tsunami Inundation with USGS 24K Quads, 2016*. Accessed May 22, 2017. http://www.conservation.ca.gov/cgs/geologic_hazards/Tsunami/Inundation_Maps/LosAngeles

FEMA Map Service Center. 2008. *Flood Insurance Rate Map (FIRM) 06037C1075F*. September 26, 2008. Accessed May 22 2017. https://msc.fema.gov/portal/search?AddressQuery=11050%20De%20Soto%20Avenue#searchresultsanchor

LADPW (Los Angeles Department of Public Works). 2017. Los Angeles County Storm Drain System. Web map application. Accessed May 22, 2017. http://dpw.lacounty.gov/fcd/stormdrain/index.cfm.

3.10 Land Use and Planning

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Physically divide an established community?	☐	☐	☐	☒
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☒	☐
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?	☐	☐	☐	☒

a) Would the project physically divide an established community?

No Impact. The proposed project would be located in the interior of a site that is owned by LADWP. The proposed project would involve construction of two storage tanks on property owned by LADWP followed by the removal of the existing De Soto Reservoir. Thus, project implementation would not result in physical division of any established communities. No impact would occur, and this issue will not be further analyzed in the EIR.

b) Would the project conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?

Less Than Significant Impact. The proposed project would be located on a site owned by LADWP. The project site is designated Very Low II Residential in the City of Los Angeles General Plan (City of Los Angeles 2017). The northernmost property that comprises the project site as well as the property adjacent to the southeast are Zoned A1-1 (Agricultural Zone). The property to the south of the proposed tanks, where the existing reservoir is located, is Zoned A2-1 (Agricultural Zone). The properties adjacent to the existing reservoir to the west are zoned RA-1 (Suburban Zone). This property would be used for access during construction and no project component would be constructed on this property.

The entire project site is designated Very Low II Residential by the City of Los Angeles General Plan. However, the project site is largely undeveloped and has been owned by LADWP for approximately 80 years as part of the De Soto Reservoir property. The site has never been utilized for agriculture, residential use, or any use other than water storage and conveyance. Thus, the proposed tanks would be consistent with the historical use of water storage on the LADWP property. Because the use of the project site would remain unchanged, the proposed project would not conflict with a land use or zoning designation. Impacts would be less than significant. This issue will not be further analyzed in the EIR.

c) Would the project conflict with any applicable habitat conservation plan or natural community conservation plan?

No Impact. The proposed project would not conflict with any habitat conservation plan. The site is not within a habitat conservation plan or a natural community conservation area (CDFW 2015; City of Los Angeles 2015). No impact would occur, and this issue will not be further analyzed in the EIR.

References

CDFW (California Department of Fish and Wildlife). 2015. *California Regional Conservation Plans* [map]. August 2015. Accessed May 22, 2017. https://www.wildlife.ca.gov/Conservation/Planning/NCCP.

City of Los Angeles. 2014. *General Plan Land Use Map – Chatsworth – Porter Ranch Community Plan* [map]. August 2015. Accessed May 22, 2015.

City of Los Angeles. 2017. Zimas. "Planning and Zoning." Web Map Application. Accessed May 22, 2017. http://zimas.lacity.org/

City of Los Angeles. 1993. *Chatsworth—Porter Ranch Community Plan*. Accessed May 22, 2017. http://planning.lacity.org/

City of Los Angeles Municipal Code Section 12.05 "A1" Agricultural Zone.

City of Los Angeles Municipal Code Section 12.06 "A2" Agricultural Zone.

City of Los Angeles Municipal Code Section 12.07.01 "RE" Residential Estate Zone.

City of Los Angeles Municipal Code Section 12.22. Exceptions

3.11 Mineral Resources

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	☐	☐	☐	☒

a) Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

No Impact. The proposed project is not designated as a known mineral resources site of significance to the State or region (California Department of Conservation 2015). No impact would occur. This issue will not be further analyzed in the EIR.

b) Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?

No Impact. The proposed project site is not identified as a locally important mineral resource site delineated on a local general plan, specific plan, or other land use plan (City of Los Angeles 1996). No impact would occur, and this issue will not be further analyzed in the EIR.

References

California Department of Conservation (Division of Mines and Geology). 1979. *Mineral Land Classification of the Greater Los Angeles Area: Classification of Sand and Gravel Resource Areas, San Fernando Valley Production-Consumption Region. Aggregate.* Accessed May 22, 2017. http://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=mlc

City of Los Angeles. 1996. General Plan – Safety Element. Adopted November 26, 1996. Accessed May 22, 2014. http://cityplanning.lacity.org/

3.12 Noise

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☒	☐	☐	☐
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	☒	☐	☐	☐
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	☐	☐	☒	☐
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	☒	☐	☐	☐
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

a) Would the project result in exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Potentially Significant Impact. The proposed project site is bordered by a school to the west, southeast, and south of the site. Residential uses are also generally surround the project site. As such, construction activities could potentially expose nearby sensitive receptors to noise levels above established standards. Although construction activity would be temporary, some activities may be audible at receptors. Because construction activities have the potential to result in noise levels above established standards, impacts could be potentially significant. This issue will be further analyzed in the EIR**.**

The operation of the proposed project would not create any substantial noise generating activities. Impacts would be less than significant, and this issue will not be further analyzed in the EIR.

b) Would the project result in exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?

Potentially Significant Impact. Certain activities during project construction may expose persons to excessive groundborne noise levels. Although this impact would be temporary, related to only the construction phase of the proposed project, it may still be considered significant. Further evaluation of potentially significant impacts related to groundborne noise generated by construction activities for the proposed project will be conducted in the EIR.

The operation of the proposed project would not create any groundborne vibration. Impacts would be less than significant, and this issue will not be further analyzed in the EIR.

c) Would the project result in a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?

Less Than Significant Impact. The proposed project involves the construction of two underground storage tanks, water line installation, and removal of the existing De Soto Reservoir. The operation of these facilities would not create a permanent increase in ambient noise levels. As such, impacts would be less than significant, and this issue will not be further analyzed in the EIR.

d) Would the project result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?

Potentially Significant Impact. A substantial temporary increase in ambient noise levels in the project vicinity above levels existing without the project may occur related to project construction activities. As such, temporary impacts during construction would be considered potentially significant. Further evaluation of this issue will be conducted in the EIR.

e) Would the project be located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

No Impact. As discussed in Threshold 3.8(e), the proposed project is not located within an airport land use plan (County of Los Angeles 2009) or within a two-mile radius of any public airport or public use airport. No impact would occur, and this issue will not be further analyzed in the EIR.

f) Would the project be within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?

No Impact. As discussed in Threshold 3.8(f), the nearest private airstrip is Boeing De Soto Heliport – CN32, a private heliport, located 2.4 miles south of the project site, and Hughes-Canoga Park Heliport, located approximately 3 miles southwest of the project site. Due to the distance of these airstrips from the project site, no noise impacts would occur, and this issue will not be further analyzed in the EIR.

References

County of Los Angeles. 2009. Airport Land Use Commission (ALUC) Viewer. Accessed May 22, 2017. http://planning.lacounty.gov/gis/interactive

3.13 Population and Housing

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☐	☒
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

a) Would the project induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

No Impact. The proposed project does not include construction of new homes or businesses or the extension of roads or other infrastructure that would induce population growth. The project does not propose to increase overall water supply, but rather provide additional local storage to increase operational effectiveness, reliability, and flexibility; system redundancy; and emergency supply to the West San Fernando Valley. Additionally, the number of personnel required for project construction in the context of the Los Angeles urban area would be low and temporary in nature, and no substantial population growth in the area would occur related to construction. The operation of the proposed project would not increase the number of operating personnel on site and thus would not induce population growth or the need for new housing in the area. No impact would occur relative to population growth. This issue will not be further analyzed in the EIR.

b) Would the project displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?

No Impact. There is no existing housing within the project site, and the proposed project would not involve removal of any housing. No impact would occur. This issue will not be further analyzed in the EIR.

c) Would the project displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?

No Impact. The proposed project would not displace any people, as none live on site. No impact would occur. This issue will not be further analyzed in the EIR.

3.14 Public Services

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:				
Fire protection?	☐	☐	☐	☒
Police protection?	☐	☐	☐	☒
Schools?	☐	☐	☐	☒
Parks?	☐	☐	☐	☒
Other public facilities?	☐	☐	☐	☒

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:

Fire Protection

No Impact. Fire protection for the proposed project site is provided by the City of Los Angeles Fire Department (City of Los Angeles 2017). The proposed project would not generate a requirement for additional fire protection services. No Impact would occur, and this issue will not be further analyzed in the EIR.

Police Protection

No Impact. Police protection for the proposed project site is provided by the Los Angeles Police Department. The proposed project would not generate a requirement for additional police protection. No impact would occur, and this issue will not be further analyzed in the EIR.

Schools

No Impact. The proposed project would not generate a demand for school services, nor would it lead directly or indirectly to substantial population growth within a given geographical area such that new or physically altered school facilities would be required. No impact would occur, and this issue will not be further analyzed in the EIR.

Parks

No Impact. The proposed project would generate a demand for parks, nor would it lead directly or indirectly to substantial population growth within a given geographical area such that new or physically altered park facilities would be required. As such, no impact would occur, and this issue will not be further analyzed in the EIR.

Other Public Facilities

No Impact. No new housing or business would be constructed as part of the project, nor would the proposed project directly or indirectly induce population growth in the area such that new or physically altered governmental facilities would be required to adequately provide services. No impact would occur, and this issue will not be further analyzed in the EIR.

References

City of Los Angeles. 2017. Zimas. "Public Safety." Web Map Application. Accessed May 23, 2017. http://zimas.lacity.org/

3.15 Recreation

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☒	☐
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☒	☐

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

Less Than Significant Impact. Neither the construction nor operation of the proposed project would generate any additional population that would increase the use of existing neighborhood or regional parks or other recreational facilities. However, an equestrian trail does pass through a portion of the project site. A 12-foot wide equestrian trail was constructed as part of the Sierra Canyon Secondary School Project in order to provide connectivity between major horse-keeping neighborhoods. This trail, which is located within a dedicated easement, extends eastward along Rinaldi Street from De Soto Avenue and then northward adjacent to the school, where it connects to the LADWP property. The formal easement does not continue across the LADWP property, but LADWP has allowed equestrian access across the property between the dedicated equestrian easement on the west and Rinaldi Street on the east. During both construction and operation of the proposed project, equestrian access through the LADWP property would be maintained by constructing a wall separating the project site from the trail. As such, impacts to existing neighborhood and regional parks and other recreational facilities would be less than significant. This issue will not be further analyzed in the EIR.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?

Less than Significant Impact. The proposed project involves the construction of two buried concrete water storage tanks, pipeline installation, and demolition of an existing reservoir on land owned by LADWP, as well as an undeveloped parcel that LADWP would acquire. The proposed project does not include construction or expansion of recreational facilities or require construction or expansion of recreational facilities that might have an adverse physical effect on the environment. The proposed project would not generate a demand for parks, nor would it lead directly or indirectly to substantial population growth such that the construction or expansion of recreation facilities would be required. As such, impacts to recreational facilities or the construction or expansion of recreational facilities would be less than significant. This issue will not be further analyzed in the EIR.

References

City of Los Angeles. 2002. Chatsworth—Porter Ranch Community Plan Equestrian Areas and Trails [map]. Prepared June 2002. Accessed May 23 2017.

3.16 Transportation and Traffic

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	☒	☐	☐	☐
b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	☒	☐	☐	☐
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	☐	☐	☐	☒

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☒	☐	☐	☐
e) Result in inadequate emergency access?	☐	☐	☒	☐
f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	☐	☐	☒	☐

a) Would the project conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?

Potentially Significant Impact. The proposed project involves the construction of two buried concrete water storage tanks and pipeline installation, as well as the demolition of the existing De Soto Reservoir. Construction would require trucks to haul excavated soils and demolition material away from the project site and to deliver materials and supplies during tank construction. Although construction conditions would be temporary, related only to the period of time needed for construction of the proposed facilities, it may cause an increase in traffic that is substantial in relation to the existing traffic load and capacity of the street system. Further evaluation of potentially significant impacts related to traffic generated by construction activities for the proposed project will be conducted in the EIR.

Operation of the proposed project would not cause any increase in traffic in relation to the existing traffic load and capacity of the street system nor would it adversely affect any other mode of transportation because no workers or vehicles beyond current operations at the site would be required. As such, operational impacts would be less than significant and will not be further analyzed in the EIR.

b) Would the project conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?

Potentially Significant Impact. Construction of the proposed project would require extensive grading and excavation thereby generating a significant number of haul truck trips. Although impacts would be temporary,

and related only to the construction phase of the proposed project, construction traffic may exceed a level of service standards established by the county congestion management agency for designated roads or highways. Further evaluation of potentially significant impacts related to traffic generated by construction activities for the proposed project will be conducted in the EIR.

Operation of the proposed project would not increase the amount of daily inbound and outbound traffic at the site as no workers or vehicles beyond current operations at the site would be required. As such, operational impacts would be less than significant and will not be further analyzed in the EIR.

c) Would the project result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?

No Impact. The proposed project involves the construction of two buried concrete water storage tanks and pipeline installation, as well as the demolition of the existing De Soto Reservoir. As such, the construction and operation of the project would not generate air traffic, and the project would not include any structures of a height that could act as a hazard to aircraft navigation. No impact would occur. This issue will not be further analyzed in the EIR.

d) Would the project substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Potentially Significant Impact. No changes to existing transportation facilities would occur as a result of the proposed project. Construction of the proposed project would involve deliveries of materials, components, and supplies to the site, and may involve oversize trucks. Since oversize loads are needed, permits specifying route and time limits, as well as necessary traffic control measures, would be required from state, county, and/or City agencies. As such, impacts to increase of hazards due to incompatible uses are potentially significant. This issue will be further analyzed in the EIR.

e) Would the project result in inadequate emergency access?

Less Than Significant Impact. The City of Los Angeles adopted a multi-hazard emergency response plan in order to respond with maximum feasible speed and efficiency to disaster events. . Construction would occur on LADWP property and not interfere with the City's emergency access. As such, impacts would be less than significant. This issue will not be further analyzed in the EIR. Operation of the proposed project would not require personnel at the site on a daily basis. As such, impacts on existing emergency access during operation of the proposed project would be less than significant. This issue will not be further analyzed in the EIR.

f) Would the project conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?

Less Than Significant Impact. The proposed project involves the construction of two buried concrete water storage tanks and pipeline installation, as well as the demolition of the existing De Soto Reservoir. Construction would take place on LADWP property. Therefore, the project would not conflict with adopted plans, policies, or programs regarding public transit, bicycle, or pedestrian facilities during construction, and impacts would be less than significant. This issue will not be further analyzed in the EIR.

Operation of the proposed project would not increase the amount of daily inbound and outbound traffic at the site as no workers or vehicles beyond current operations would be required. As such, impacts related to conflicts with adopted plans, policies, or programs regarding public transit, bicycle, or pedestrian facilities during operation of the proposed project would be less than significant. This issue will not be further analyzed in the EIR.

3.17 Tribal Cultural Resources

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	☐	☐	☒	☐
ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☐	☐	☒	☐

a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?

Less Than Significant Impact. LADWP performed a cultural records search for the proposed project site and surrounding one-mile radius. The records search found that 30 previously recorded cultural resources were located within one mile of the project area. However, none of these resources overlap with the project area. Outreach to local tribes in the vicinity of the proposed project property and the project Area of Potential Effect has been performed by LADWP. LADWP requested a listing of tribes to notify from the NAHC. The NAHC provided the list on July 28, 2017, and LADWP subsequently sent letters on August 25, 2017 to each of the eight tribes identified by NAHC. To date, no tribes have contacted LADWP requesting consultation. Given that the records search did not reveal any known resources on the project site and that no tribes have provided information regarding the potential presence of tribal cultural resources, impacts to tribal cultural resources would be less than significant. This issue will not be further analyzed in the EIR.

ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? (In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.)

Less Than Significant Impact. LADWP requested a listing of tribes to notify from the NAHC. The NAHC provided the list on July 28, 2017, and LADWP subsequently sent letters on August 25, 2017 to each of the eight tribes identified by NAHC. To date, no tribes have contacted LADWP requesting consultation. Given that the records search did not reveal any known resources on the project site and that no tribes have provided information regarding the potential presence of tribal cultural resources, impacts to tribal cultural resources would be less than significant. This issue will not be further analyzed in the EIR.

3.18 Utilities and Service Systems

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	☐	☐	☒	☐
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	☐	☐	☒	☐
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	☐	☐	☒	☐
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	☐	☐	☒	☐
e) Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☒	☐
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	☒	☐	☐	☐
g) Comply with federal, state, and local statutes and regulations related to solid waste?	☐	☐	☒	☐

a) Would the project exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?

Less Than Significant Impact. The proposed project would not involve residential, commercial, or institutional uses that would result in wastewater generation. The proposed project would increase the number of personnel on site during construction activities. Sanitary waste related to the temporary increase in on-site workforce during project construction would be handled through the use of portable chemical toilets, the waste from which would be removed by a private contractor and disposed at an approved off-site location that would comply with the wastewater treatment requirements of the RWQCB Los Angeles Region. As such, impacts would be less than significant. This issue will not be further analyzed in the EIR.

b) Would the project require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

Less Than Significant Impact. The proposed project would not involve or require the construction of new wastewater treatment facilities or require an expansion of the existing facilities. As stated in 3.18(a), sanitary waste related to the temporary increase in on-site workforce during project construction would be handled through the use of portable chemical toilets. The volume of sanitary waste generated by the construction workforce would be minor and not require the expansion of these facilities.

The proposed project would not involve or require the construction of new water treatment facilities or require an expansion of the existing facilities. As discussed above, the proposed project would not increase overall water supply, but rather provide additional operational local storage and increase operational effectiveness, reliability, and flexibility; provide system redundancy; and provide emergency supply to the West San Fernando Valley. As such, impacts are less than significant, and this issue will not be further analyzed in the EIR.

c) Would the project require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

Less Than Significant Impact. As discussed in 3.9(e), the proposed two buried concrete water storage tanks would increase the amount of impervious surfaces at the site. There are two stormwater drains located to the southwest of the project site at the intersection of De Soto Avenue and Rinaldi Street, four stormwater catch basins to the southeast of the project site, and six further to the east along Rinaldi Street. These nearby catch basins would direct excess drainage from the proposed project to the municipal storm drain system (LADPW 2017). In addition, the undeveloped areas surrounding the project site to the north and the northeast are expected to partially absorb runoff.

Although the proposed project would increase the amount of impervious surfaces on site, the project would not alter the storm water drainage system to the extent that new storm water drainage facilities or expansion of existing facilities would be required. As such, impacts would be less than significant, and this issue will not be further analyzed in the EIR.

d) Would the project have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?

Less Than Significant Impact. The proposed project would not require the use of water on site. The project does not propose to increase overall water supply, but rather increase the reliability of the existing

water supply in the west San Fernando Valley. As such, impacts would be less than significant. This issue will not be further analyzed in the EIR.

e) Would the project result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

Less Than Significant Impact. As discussed in Threshold 3.18(a), above, the project would result in a negligible amount of wastewater generation due to the increased number of personnel on site during construction. Sanitary waste related to the temporary increase in on-site workforce during project construction would be handled through the use of portable chemical toilets, the waste from which would be removed by a private contractor and disposed at an approved off-site location that would comply with the wastewater treatment requirements of the RWQCB Los Angeles Region. No wastewater generation would occur during operation of the proposed project. As such, the proposed project would not place a significant demand on wastewater treatment plants and providers. Impacts would be less than significant and this issue will not be further analyzed in the EIR.

f) Would the project be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?

Potentially Significant Impact. Waste generated at the project site would consist of excavated soil during construction, construction equipment packaging, construction scrap, and debris from the demolition of De Soto Reservoir. No waste generation is expected to occur at the site as a result of the proposed project during operation. Potential landfills that would accommodate construction waste generated by the proposed project include the Sunshine Canyon, located approximately 6 miles northeast of the project site, and Calabasas Landfill, located approximately 11 miles southwest of the project site. Sunshine Canyon is owned and operated by Republic Services and currently handles approximately one-third of the daily waste of all of Los Angeles County. Sunshine Canyon has a maximum permitted throughput of 12,100 tons of waste per day. This amounts to more than 3.5 million tons annually. Calabasas Landfill currently has a maximum permitted throughput of 3,500 tons of waste per day. This amounts to more than 1.0 million tons annually. General construction waste, including the demolition debris from De Soto Reservoir (which would generate about 100 tons of waste requiring disposal), is anticipated to be small in relation to the capacity of local landfills. However, as discussed above, the proposed project would require excavation of approximately 350,000 cubic yards of soil. Some of this material would be reused as backfill on site, and it is anticipated that much of the exported material would be utilized at other construction sites within the region and would thus not affect the capacity of local landfills. Nonetheless, a portion of the exported material may require disposal in landfills. As such, there is a potential for significant impacts associated with solid waste disposal, and this issue will be further analyzed in the EIR.

g) Would the project comply with federal, state, and local statutes and regulations related to solid waste?

Less Than Significant Impact. As described above, the construction waste generated by the proposed project would be properly disposed of in existing solid waste facilities. Further, construction materials and excavated soils will be disposed of in accordance to federal, state, and local statutes and regulations. LADWP would comply with the City's Construction and Demolition Ordinance and obtain a Private Hauler Permit prior to collecting, hauling, and transporting waste from within the City and dispose of waste only in City Certified processing facilities. LADWP would also comply with the County-wide Integrated Waste Management Plan. The impact would be less than significant, and this issue will not be further analyzed in the EIR.

References

CalRecycle (2017). Facility/Site Summary Details: Calabasas Landfill (19-AA-0056). Accessed July 10, 2017. http://www.calrecycle.ca.gov/SWFacilities/Directory/19-AA-0056/Detail/

LADPW (Los Angeles Department of Public Works). 2017. Los Angeles County Storm Drain System. Web map application. Accessed May 22, 2017. http://dpw.lacounty.gov/fcd/stormdrain/index.cfm.

LASAN (Los Angeles Sanitation). 2017. "Waste Hauler Permit Program." Accessed June 19, 2017. https://www.lacitysan.org/san/faces/wcnav_externalId/s-lsh-wwd-s-c-whp?_adf.ctrl-state=qzwdo6sz1_4&_afrLoop=7446509154384210#!

3.19 Mandatory Findings of Significance

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☒	☐	☐	☐
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	☒	☐	☐	☐

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☒	☐	☐	☐

a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?

Potentially Significant Impact. The project site contains Coastal sage scrub, which may provide habitat for Coastal California Gnatcatcher. Special-status plant species also occur on site. As described in Section 3.4, impacts to special status species would be potentially significant. Further, demolition of the De Soto Reservoir, constructed in the early 1940s, has the potential to result in an adverse change to a historical resource. Ground-disturbing activities have the potential to damage or destroy intact subsurface archaeological or paleontological resources or deposits that may be present below the ground surface. As described in Section 3.5, impacts to Cultural Resources would be potentially significant. As such, this will be evaluated in the EIR prepared for the proposed project.

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

Potentially Significant Impact. The proposed project may have impacts that have been identified in the Initial Study as individually limited, but may be cumulatively considerable, depending on other current or probable future projects in the vicinity. The EIR will evaluate potential project-related cumulative impacts.

As discussed Section 3.3, the proposed project could contribute to a cumulatively considerable net increase in criteria air pollutants for which the SCAB has been designated non-attainment. The production of GHG related to project construction may result in cumulative impacts that may contribute to global change. Cumulative traffic impacts could also occur during project construction. These impacts are potentially significant and will be further discussed in the EIR.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Potentially Significant Impact. As discussed above, environmental effects that would cause substantial adverse effects on human beings, either directly or indirectly, may occur from implementation of the proposed project. Further evaluation of potentially significant impacts will be conducted in the EIR relative to construction air quality, construction greenhouse gas emissions, hydrology, construction noise, construction transportation/traffic, and construction solid waste disposal.

4 REPORT PREPARERS

Lead Agency

Los Angeles Department of Water and Power
Environmental Affairs
111 North Hope Street, Room 1044
Los Angeles, California 90012

Brian Gonzalez, Project Manager

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South Coast
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SENT VIA USPS AND E-MAIL: December 27, 2017

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Brian Gonzalez
Los Angeles Department of Water and Power
Environmental Planning and Assessment
111 North Hope Street, Room 1044
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Notice of Preparation of a Draft Environmental Impact Report for the De Soto Tanks Project

The South Coast Air Quality Management District (SCAQMD) staff appreciates the opportunity to comment on the above-mentioned document. SCAQMD staff's comments are recommendations regarding the analysis of potential air quality impacts from the Proposed Project that should be included in the Draft Environmental Impact Report (EIR). Please send SCAQMD a copy of the Draft EIR upon its completion. Note that copies of the Draft EIR that are submitted to the State Clearinghouse are not forwarded to SCAQMD. Please forward a copy of the Draft EIR directly to SCAQMD at the address shown in the letterhead. **In addition, please send with the Draft EIR all appendices or technical documents related to the air quality, health risk, and greenhouse gas analyses and electronic versions of all air quality modeling and health risk assessment files[1]. These include emission calculation spreadsheets and modeling input and output files (not PDF files). Without all files and supporting documentation, SCAQMD staff will be unable to complete our review of the air quality analyses in a timely manner. Any delays in providing all supporting documentation will require additional time for review beyond the end of the comment period.**

Air Quality Analysis

SCAQMD adopted its California Environmental Quality Act (CEQA) Air Quality Handbook in 1993 to assist other public agencies with the preparation of air quality analyses. SCAQMD recommends that the Lead Agency use this Handbook as guidance when preparing its air quality analysis. Copies of the Handbook are available from SCAQMD's Subscription Services Department by calling (909) 396-3720. More guidance developed since this Handbook is also available on SCAQMD's website at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-(1993). SCAQMD staff also recommends that the Lead Agency use the CalEEMod land use emissions software. This software has recently been updated to incorporate up-to-date state and locally approved emission factors and methodologies for estimating pollutant emissions from typical land use development. CalEEMod is the only software model maintained by the California Air Pollution Control Officers Association (CAPCOA) and replaces the now outdated URBEMIS. This model is available free of charge at: www.caleemod.com.

SCAQMD has also developed both regional and localized significance thresholds. SCAQMD staff requests that the Lead Agency quantify criteria pollutant emissions and compare the results to

[1] Pursuant to the CEQA Guidelines Section 15174, the information contained in an EIR shall include summarized technical data, maps, plot plans, diagrams, and similar relevant information sufficient to permit full assessment of significant environmental impacts by reviewing agencies and members of the public. Placement of highly technical and specialized analysis and data in the body of an EIR should be avoided through inclusion of supporting information and analyses as appendices to the main body of the EIR. Appendices to the EIR may be prepared in volumes separate from the basic EIR document, but shall be readily available for public examination and shall be submitted to all clearinghouses which assist in public review.

SCAQMD's CEQA regional pollutant emissions significance thresholds to determine air quality impacts. SCAQMD's CEQA regional pollutant emissions significance thresholds can be found here: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf. In addition to analyzing regional air quality impacts, SCAQMD staff recommends calculating localized air quality impacts and comparing the results to localized significance thresholds (LSTs). LSTs can be used in addition to the recommended regional significance thresholds as a second indication of air quality impacts when preparing a CEQA document. Therefore, when preparing the air quality analysis for the Proposed Project, it is recommended that the Lead Agency perform a localized analysis by either using the LSTs developed by SCAQMD staff or performing dispersion modeling as necessary. Guidance for performing a localized air quality analysis can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the Proposed Project and all air pollutant sources related to the Proposed Project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, such as sources that generate or attract vehicular trips, should be included in the analysis.

In the event that the Proposed Project generates or attracts vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the Lead Agency perform a mobile source health risk assessment. Guidance for performing a mobile source health risk assessment ("*Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*") can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis. An analysis of all toxic air contaminant impacts due to the use of equipment potentially generating such air pollutants should also be included.

In addition, guidance on siting incompatible land uses (such as placing homes near freeways) can be found in the California Air Resources Board's *Air Quality and Land Use Handbook: A Community Health Perspective*, which can be found at: http://www.arb.ca.gov/ch/handbook.pdf. CARB's Land Use Handbook is a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process. Guidance[2] on strategies to reduce air pollution exposure near high-volume roadways can be found at: https://www.arb.ca.gov/ch/rd_technical_advisory_final.PDF.

Mitigation Measures

In the event that the Proposed Project generates significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized during project construction and operation to minimize these impacts. Pursuant to CEQA Guidelines Section 15126.4 (a)(1)(D), any impacts resulting from mitigation measures must also be discussed. Several resources are

[2] In April 2017, CARB published a technical advisory, *Strategies to Reduce Air Pollution Exposure Near High-Volume Roadways: Technical Advisory*, to supplement CARB's Air Quality and Land Use Handbook: A Community Health Perspective. This technical advisory is intended to provide information on strategies to reduce exposures to traffic emissions near high-volume roadways to assist land use planning and decision-making in order to protect public health and promote equity and environmental justice. The technical advisory is available at: https://www.arb.ca.gov/ch/landuse.htm.

available to assist the Lead Agency with identifying potential mitigation measures for the Proposed Project, including:

- Chapter 11 of SCAQMD's CEQA Air Quality Handbook
- SCAQMD's CEQA web pages available here: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies
- SCAQMD's Rule 403 – Fugitive Dust, and the Implementation Handbook for controlling construction-related emissions and Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities
- SCAQMD's Mitigation Monitoring and Reporting Plan (MMRP) for the 2016 Air Quality Management Plan (2016 AQMP) available here (starting on page 86): http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2017/2017-mar3-035.pdf
- CAPCOA's *Quantifying Greenhouse Gas Mitigation Measures* available here: http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf

Alternatives

In the event that the Proposed Project generates significant adverse air quality impacts, CEQA requires the consideration and discussion of alternatives to the project or its location which are capable of avoiding or substantially lessening any of the significant effects of the project. The discussion of a reasonable range of potentially feasible alternatives, including a "no project" alternative, is intended to foster informed decision-making and public participation. Pursuant to CEQA Guidelines Section 15126.6(d), the Draft EIR shall include sufficient information about each alternative to allow meaningful evaluation, analysis, and comparison with the Proposed Project.

Permits

In the event that the Proposed Project requires a permit from SCAQMD, SCAQMD should be identified as a responsible agency for the Proposed Project. For more information on permits, please visit SCAQMD webpage at: http://www.aqmd.gov/home/permits. Questions on permits can be directed to SCAQMD's Engineering and Permitting staff at (909) 396-3385.

Data Sources

SCAQMD rules and relevant air quality reports and data are available by calling SCAQMD's Public Information Center at (909) 396-2039. Much of the information available through the Public Information Center is also available at SCAQMD's webpage at: http://www.aqmd.gov.

SCAQMD staff is available to work with the Lead Agency to ensure that project air quality impacts are accurately evaluated and any significant impacts are mitigated where feasible. If you have any questions regarding this letter, please contact me at lsun@aqmd.gov or call me at (909) 396-3308.

Sincerely,

Lijin Sun

Lijin Sun, J.D.
Program Supervisor, CEQA IGR
Planning, Rule Development & Area Sources

LS
LAC171205-06
Control Number

COUNTY OF LOS ANGELES

FIRE DEPARTMENT

1320 NORTH EASTERN AVENUE
LOS ANGELES, CALIFORNIA 90063-3294

DARYL L. OSBY
FIRE CHIEF
FORESTER & FIRE WARDEN

December 21, 2017

Brian Gonzalez, Associate Planner
Los Angeles Department of Water and Power
Environmental Planning and Assessment
111 North Hope Street
Los Angeles, CA 90012

Dear Mr. Gonzalez:

NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT, "DE SOTO TANKS PROJECT," IS A WATER STORAGE PROJECT TO PROVIDE ADDITIONAL LOCAL STORAGE AND INCREASE OPERATIONAL EFFECTIVENESS, RELIABILITY, AND FLEXIBILITY; SYSTEM REDUNDANCE; AND EMERGENCY SUPPLY TO THE WEST SAN FERNANDO VALLEY, 11200 DE SOTO AVENUE, CHATSWORTH, FFER 201700164

The Notice of Preparation of a Draft Environmental Impact Report has been reviewed by the Planning Division, Land Development Unit, Forestry Division, and Health Hazardous Materials Division of the County of Los Angeles Fire Department.

The following are their comments:

PLANNING DIVISION:

The subject property is entirely within the City of Los Angeles, which is not a part of the emergency response area of the Los Angeles County Fire Department (also known as the Consolidated Fire Protection District of Los Angeles County). Therefore, this project does not appear to have any impact on the emergency responsibilities of this department.

LAND DEVELOPMENT UNIT:

This project is located entirely in the City of Los Angeles, Chatsworth. Therefore, the City of Los Angeles Fire Department has jurisdiction concerning this project and will be setting conditions. This project is located in close proximity to the jurisdictional area of the Los Angeles County Fire Department. However, this project is unlikely to have an impact that necessitates a comment concerning general requirements from the Land Development Unit of the Los Angeles County Fire Department.

Should any questions arise regarding subdivision, water systems, or access, please contact the County of Los Angeles Fire Department's Land Development Unit, Inspector Nancy Rodeheffer at (323) 890-4243.

The County of Los Angeles Fire Department's Land Development Unit appreciates the opportunity to comment on this project.

FORESTRY DIVISION – OTHER ENVIRONMENTAL CONCERNS:

The statutory responsibilities of the County of Los Angeles Fire Department's Forestry Division include erosion control, watershed management, rare and endangered species, vegetation, fuel modification for Very High Fire Hazard Severity Zones or Fire Zone 4, archeological and cultural resources, and the County Oak Tree Ordinance. Potential impacts in these areas should be addressed.

The County of Los Angeles Fire Department's Forestry Division has no further comments regarding this project.

HEALTH HAZARDOUS MATERIALS DIVISION:

The Health Hazardous Materials Division of the Los Angeles County Fire Department has no comments or requirements for the project at this time.

If you have any additional questions, please contact this office at (323) 890-4330.

Very truly yours,

MICHAEL Y. TAKESHITA, ACTING CHIEF, FORESTRY DIVISION
PREVENTION SERVICES BUREAU

MYT:ac

APPENDIX B

Air Quality/GHG/Energy

CalEEMod Version: CalEEMod.2016.3.2

Date: 10/8/2019 9:40 AM

De Soto Storage Tanks Project
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	5.00	User Defined Unit	5.00	217,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - De Soto Storage Tanks Project. SCAQMD.

Land Use - Project consists of 3,270-linear-foot of pipeline and a 20 MG storage tank

Construction Phase - Construction would occur January 2023 through July 2029.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - No construction equipment assumed.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

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Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Equipment use base on information from applicant.

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Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Trips and VMT - Updated worker, vendor, and haul trips per applicant. Updated haul trip length: approximately 90 miles to LADWP Mojave Yard, assumed default 20 miles for rest.

On-road Fugitive Dust -

Demolition - 559 tons of debris.

Grading - 340,000 CY exported offsite.

Construction Off-road Equipment Mitigation - Comply with Rule 403: water three times per day vehicle speeds of 15 mph. Use of Tier 4 interim.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	11.00
tblConstructionPhase	NumDays	230.00	27.00
tblConstructionPhase	NumDays	230.00	409.00

tblConstructionPhase	NumDays	230.00	284.00
tblConstructionPhase	NumDays	230.00	8.00
tblConstructionPhase	NumDays	230.00	14.00
tblConstructionPhase	NumDays	230.00	66.00
tblConstructionPhase	NumDays	230.00	44.00
tblConstructionPhase	NumDays	230.00	28.00
tblConstructionPhase	NumDays	230.00	57.00
tblConstructionPhase	NumDays	230.00	45.00
tblConstructionPhase	NumDays	230.00	23.00
tblConstructionPhase	NumDays	230.00	537.00
tblConstructionPhase	NumDays	230.00	545.00
tblConstructionPhase	NumDays	230.00	44.00
tblConstructionPhase	NumDays	20.00	129.00
tblConstructionPhase	NumDays	8.00	185.00
tblConstructionPhase	NumDays	8.00	19.00
tblConstructionPhase	NumDays	8.00	77.00
tblConstructionPhase	NumDays	8.00	27.00
tblConstructionPhase	NumDays	8.00	55.00
tblConstructionPhase	NumDays	8.00	185.00
tblGrading	AcresOfGrading	0.00	9.50
tblLandUse	LandUseSquareFeet	0.00	217,800.00
tblLandUse	LotAcreage	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.6299	9.1180	6.8843	0.0395	0.9684	0.1852	1.1535	0.2795	0.1765	0.4560	0.0000	3,788.3520	3,788.3520	0.3320	0.0000	3,796.6509
2024	0.6387	5.8112	7.4103	0.0161	0.2735	0.2251	0.4986	0.0736	0.2161	0.2897	0.0000	1,433.4535	1,433.4535	0.1979	0.0000	1,438.4016
2025	0.4554	4.0617	4.9682	0.0113	0.4401	0.1528	0.5928	0.1706	0.1458	0.3164	0.0000	1,003.3599	1,003.3599	0.1444	0.0000	1,006.9704
2026	9.2700e-003	0.0955	0.0715	1.9000e-004	0.0559	3.6400e-003	0.0595	0.0211	3.3500e-003	0.0244	0.0000	17.1211	17.1211	4.5700e-003	0.0000	17.2354
2027	0.2622	2.4549	2.3826	5.1800e-003	0.0541	0.0988	0.1529	0.0138	0.0926	0.1063	0.0000	455.0863	455.0863	0.1014	0.0000	457.6217
2028	0.2165	2.2041	1.6642	4.3500e-003	0.0513	0.0860	0.1373	0.0138	0.0792	0.0930	0.0000	385.1497	385.1497	0.1070	0.0000	387.8238
2029	0.1203	1.2285	0.9251	2.4200e-003	0.0287	0.0479	0.0767	7.7300e-003	0.0441	0.0519	0.0000	214.2945	214.2945	0.0596	0.0000	215.7850
Maximum	**0.6387**	**9.1180**	**7.4103**	**0.0395**	**0.9684**	**0.2251**	**1.1535**	**0.2795**	**0.2161**	**0.4560**	**0.0000**	**3,788.3520**	**3,788.3520**	**0.3320**	**0.0000**	**3,796.6509**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.6299	9.1180	6.8843	0.0395	0.9304	0.1852	1.1156	0.2600	0.1765	0.4365	0.0000	3,788.3512	3,788.3512	0.3320	0.0000	3,796.6501
2024	0.6387	5.8112	7.4103	0.0161	0.2735	0.2251	0.4986	0.0736	0.2161	0.2897	0.0000	1,433.4523	1,433.4523	0.1979	0.0000	1,438.4004
2025	0.4554	4.0617	4.9682	0.0113	0.3064	0.1528	0.4592	0.1026	0.1458	0.2484	0.0000	1,003.3590	1,003.3590	0.1444	0.0000	1,006.9695
2026	9.2700e-003	0.0955	0.0715	1.9000e-004	0.0232	3.6400e-003	0.0269	8.6000e-003	3.3500e-003	0.0120	0.0000	17.1211	17.1211	4.5700e-003	0.0000	17.2353
2027	0.2622	2.4549	2.3826	5.1800e-003	0.0504	0.0988	0.1492	0.0132	0.0926	0.1058	0.0000	455.0858	455.0858	0.1014	0.0000	457.6212
2028	0.2165	2.2041	1.6642	4.3500e-003	0.0513	0.0860	0.1373	0.0138	0.0792	0.0930	0.0000	385.1493	385.1493	0.1070	0.0000	387.8235
2029	0.1203	1.2285	0.9251	2.4200e-003	0.0287	0.0479	0.0767	7.7300e-003	0.0441	0.0519	0.0000	214.2943	214.2943	0.0596	0.0000	215.7848
Maximum	**0.6387**	**9.1180**	**7.4103**	**0.0395**	**0.9304**	**0.2251**	**1.1156**	**0.2600**	**0.2161**	**0.4365**	**0.0000**	**3,788.3512**	**3,788.3512**	**0.3320**	**0.0000**	**3,796.6501**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**11.11**	**0.00**	**7.78**	**17.32**	**0.00**	**7.51**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Excavation 1	Grading	1/1/2023	9/15/2023	5	185	Entire duration
2	Excavation 2	Grading	1/1/2023	1/26/2023	5	19	Equipment use 10% of phase
3	Excavation 3	Grading	1/1/2023	2/7/2023	5	27	Equipment use 15% of phase
4	Excavation 4	Grading	1/1/2023	3/17/2023	5	55	Equipment use 30% of phase
5	Excavation 5	Grading	1/1/2023	9/15/2023	5	185	For haul trips
6	Pipeline Installation 1	Trenching	6/1/2023	6/30/2025	5	543	Entire duration
7	Pipeline Installation 2	Trenching	6/1/2023	8/15/2023	5	54	Equipment use 10% of phase
8	Storage Tank Construction 1	Building Construction	10/1/2023	10/31/2025	5	545	Entire duration
9	Storage Tank Construction 2	Building Construction	10/1/2023	11/30/2023	5	44	First two months
10	Storage Tank Construction 3	Building Construction	10/1/2023	10/16/2023	5	11	Equipment use 2% of phase
11	Storage Tank Construction 4	Building Construction	10/1/2023	11/7/2023	5	27	Equipment use 5% of phase
12	Storage Tank Construction 5	Building Construction	10/1/2023	4/24/2025	5	409	Equipment use 75% of phase
13	Flow Control Station 1	Building Construction	10/1/2024	10/31/2025	5	284	Entire duration
14	Flow Control Station 2	Building Construction	10/1/2024	10/10/2024	5	8	8 days of phase
15	Flow Control Station 3	Building Construction	10/1/2024	10/18/2024	5	14	Two weeks or 5% of phase
16	Flow Control Station 4	Building Construction	10/1/2024	12/31/2024	5	66	Equipment use for 3 months
17	Flow Control Station 5	Building Construction	10/1/2024	11/29/2024	5	44	Equipment use for 2 months
18	Flow Control Station 6	Building Construction	10/1/2024	11/7/2024	5	28	Equipment use 10% of phase
19	Flow Control Station 7	Building Construction	10/1/2024	12/18/2024	5	57	Equipment use 20% of phase
20	Storage Tank Construction 6	Building Construction	9/1/2025	10/31/2025	5	45	Last two months
21	Finish Grading/Site Improvements	Grading	10/1/2025	1/15/2026	5	77	
22	Storage Tank Construction 7	Building Construction	10/1/2025	10/31/2025	5	23	Last month
23	Demoltion	Demolition	1/1/2027	6/30/2027	5	129	Demolition of existing tanks
24	Pump Station Construction	Building Construction	7/1/2027	7/20/2029	5	537	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Excavation 1	Excavators	1	8.00	158	0.38
Excavation 1	Generator Sets	1	8.00	84	0.74
Excavation 1	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Excavation 2	Cranes	1	6.00	231	0.29
Excavation 2	Rubber Tired Dozers	1	8.00	247	0.40
Excavation 2	Welders	1	8.00	46	0.45
Excavation 3	Bore/Drill Rigs	1	8.00	221	0.50
Excavation 4	Bore/Drill Rigs	1	8.00	221	0.50
Excavation 4	Cement and Mortar Mixers	1	8.00	9	0.56
Excavation 4	Pumps	2	8.00	84	0.74
Pipeline Installation 1	Air Compressors	1	8.00	78	0.48
Pipeline Installation 1	Cranes	1	6.00	231	0.29
Pipeline Installation 1	Excavators	1	8.00	158	0.38
Pipeline Installation 1	Generator Sets	1	8.00	84	0.74
Pipeline Installation 1	Other Construction Equipment	2	6.00	172	0.42
Pipeline Installation 1	Pumps	1	8.00	84	0.74
Pipeline Installation 1	Rough Terrain Forklifts	1	8.00	100	0.40
Pipeline Installation 1	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Pipeline Installation 1	Welders	1	8.00	46	0.45
Pipeline Installation 2	Bore/Drill Rigs	1	8.00	221	0.50
Storage Tank Construction 1	Cranes	1	6.00	231	0.29
Storage Tank Construction 1	Generator Sets	1	8.00	84	0.74
Storage Tank Construction 1	Pumps	3	8.00	84	0.74

Storage Tank Construction 2	Graders	1	8.00	187	0.41
Storage Tank Construction 2	Plate Compactors	1	4.00	8	0.43
Storage Tank Construction 2	Rollers	1	4.00	80	0.38
Storage Tank Construction 2	Rubber Tired Dozers	1	8.00	247	0.40
Storage Tank Construction 2	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Storage Tank Construction 3	Pressure Washers	1	4.00	13	0.30
Storage Tank Construction 4	Air Compressors	1	8.00	78	0.48
Storage Tank Construction 4	Other Construction Equipment	1	8.00	172	0.42
Storage Tank Construction 4	Skid Steer Loaders	1	8.00	65	0.37
Storage Tank Construction 4	Welders	1	8.00	46	0.45
Storage Tank Construction 5	Rough Terrain Forklifts	1	8.00	100	0.40
Flow Control Station 1	Cranes	1	8.00	231	0.29
Flow Control Station 2	Pumps	2	8.00	84	0.74
Flow Control Station 3	Pressure Washers	1	4.00	13	0.30
Flow Control Station 3	Welders	1	8.00	46	0.45
Flow Control Station 4	Rough Terrain Forklifts	1	8.00	100	0.40
Flow Control Station 5	Excavators	1	8.00	158	0.38
Flow Control Station 5	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Flow Control Station 6	Rollers	1	4.00	80	0.38
Flow Control Station 7	Generator Sets	1	8.00	84	0.74
Flow Control Station 7	Plate Compactors	1	4.00	8	0.43
Flow Control Station 7	Skid Steer Loaders	1	8.00	65	0.37
Flow Control Station 7	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Storage Tank Construction 6	Other Construction Equipment	1	8.00	172	0.42
Finish Grading/Site Improvements	Cranes	1	6.00	231	0.29
Finish Grading/Site Improvements	Graders	1	8.00	187	0.41
Finish Grading/Site Improvements	Pavers	1	4.00	130	0.42
Finish Grading/Site Improvements	Plate Compactors	1	4.00	8	0.43
Finish Grading/Site Improvements	Rollers	1	4.00	80	0.38
Finish Grading/Site Improvements	Rubber Tired Dozers	1	8.00	247	0.40
Finish Grading/Site Improvements	Skid Steer Loaders	1	8.00	65	0.37

Finish Grading/Site Improvements	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Storage Tank Construction 7	Cement and Mortar Mixers	1	6.00	9	0.56
Storage Tank Construction 7	Pumps	2	8.00	84	0.74
Demoltion	Air Compressors	1	8.00	78	0.48
Demoltion	Concrete/Industrial Saws	1	6.00	81	0.73
Demoltion	Cranes	1	6.00	231	0.29
Demoltion	Crushing/Proc. Equipment	1	6.00	85	0.78
Demoltion	Generator Sets	1	8.00	84	0.74
Demoltion	Rough Terrain Forklifts	1	8.00	100	0.40
Demoltion	Rubber Tired Dozers	1	8.00	247	0.40
Demoltion	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Pump Station Construction	Cranes	1	6.00	231	0.29
Pump Station Construction	Graders	1	8.00	187	0.41
Pump Station Construction	Pavers	1	4.00	130	0.42
Pump Station Construction	Plate Compactors	1	4.00	8	0.43
Pump Station Construction	Rollers	1	4.00	80	0.38
Pump Station Construction	Rubber Tired Dozers	1	8.00	247	0.40
Pump Station Construction	Skid Steer Loaders	1	8.00	65	0.37
Pump Station Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Excavation 1	5	50.00	10.00	12,565.00	14.70	6.90	90.00	LD_Mix	HDT_Mix	HHDT
Excavation 2	4	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Excavation 3	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Excavation 4	4	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Excavation 5	0	0.00	0.00	30,155.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Installation 1	13	30.00	30.00	3,600.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Installation 2	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 1	7	100.00	20.00	20.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 2	5	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 3	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 4	4	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 5	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 1	3	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 2	2	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 3	2	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 4	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 5	2	0.00	0.00	1,600.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 6	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 7	4	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 6	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finish Grading/Site Improvements	9	30.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 7	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 7	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demoltion	10	30.00	0.00	80.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pump Station Construction	9	30.00	10.00	40.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Excavation 1 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0738	0.6785	1.0536	1.6600e-003		0.0329	0.0329		0.0312	0.0312	0.0000	144.8612	144.8612	0.0322	0.0000	145.6672
Total	**0.0738**	**0.6785**	**1.0536**	**1.6600e-003**	**0.0000**	**0.0329**	**0.0329**	**0.0000**	**0.0312**	**0.0312**	**0.0000**	**144.8612**	**144.8612**	**0.0322**	**0.0000**	**145.6672**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.1059	2.6981	1.1700	0.0182	0.4856	7.5500e-003	0.4931	0.1333	7.2200e-003	0.1405	0.0000	1,790.5655	1,790.5655	0.1025	0.0000	1,793.1279
Vendor	1.8400e-003	0.0639	0.0188	2.2000e-004	5.8300e-003	7.0000e-005	5.9000e-003	1.6800e-003	7.0000e-005	1.7500e-003	0.0000	21.7100	21.7100	1.1900e-003	0.0000	21.7399
Worker	0.0170	0.0116	0.1372	4.5000e-004	0.0507	3.6000e-004	0.0511	0.0135	3.3000e-004	0.0138	0.0000	41.0253	41.0253	9.6000e-004	0.0000	41.0495
Total	**0.1248**	**2.7736**	**1.3260**	**0.0188**	**0.5422**	**7.9800e-003**	**0.5501**	**0.1484**	**7.6200e-003**	**0.1560**	**0.0000**	**1,853.3008**	**1,853.3008**	**0.1047**	**0.0000**	**1,855.9172**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0738	0.6785	1.0536	1.6600e-003		0.0329	0.0329		0.0312	0.0312	0.0000	144.8610	144.8610	0.0322	0.0000	145.6671
Total	**0.0738**	**0.6785**	**1.0536**	**1.6600e-003**	**0.0000**	**0.0329**	**0.0329**	**0.0000**	**0.0312**	**0.0312**	**0.0000**	**144.8610**	**144.8610**	**0.0322**	**0.0000**	**145.6671**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.1059	2.6981	1.1700	0.0182	0.4856	7.5500e-003	0.4931	0.1333	7.2200e-003	0.1405	0.0000	1,790.5655	1,790.5655	0.1025	0.0000	1,793.1279
Vendor	1.8400e-003	0.0639	0.0188	2.2000e-004	5.8300e-003	7.0000e-005	5.9000e-003	1.6800e-003	7.0000e-005	1.7500e-003	0.0000	21.7100	21.7100	1.1900e-003	0.0000	21.7399
Worker	0.0170	0.0116	0.1372	4.5000e-004	0.0507	3.6000e-004	0.0511	0.0135	3.3000e-004	0.0138	0.0000	41.0253	41.0253	9.6000e-004	0.0000	41.0495
Total	**0.1248**	**2.7736**	**1.3260**	**0.0188**	**0.5422**	**7.9800e-003**	**0.5501**	**0.1484**	**7.6200e-003**	**0.1560**	**0.0000**	**1,853.3008**	**1,853.3008**	**0.1047**	**0.0000**	**1,855.9172**

3.3 Excavation 2 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0623	0.0000	0.0623	0.0320	0.0000	0.0320	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.1084	0.0585	1.5000e-004		4.7100e-003	4.7100e-003		4.3700e-003	4.3700e-003	0.0000	12.5274	12.5274	3.6700e-003	0.0000	12.6191
Total	**0.0114**	**0.1084**	**0.0585**	**1.5000e-004**	**0.0623**	**4.7100e-003**	**0.0670**	**0.0320**	**4.3700e-003**	**0.0364**	**0.0000**	**12.5274**	**12.5274**	**3.6700e-003**	**0.0000**	**12.6191**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0243	0.0000	0.0243	0.0125	0.0000	0.0125	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.1084	0.0585	1.5000e-004		4.7100e-003	4.7100e-003		4.3700e-003	4.3700e-003	0.0000	12.5274	12.5274	3.6700e-003	0.0000	12.6191
Total	**0.0114**	**0.1084**	**0.0585**	**1.5000e-004**	**0.0243**	**4.7100e-003**	**0.0290**	**0.0125**	**4.3700e-003**	**0.0169**	**0.0000**	**12.5274**	**12.5274**	**3.6700e-003**	**0.0000**	**12.6191**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Excavation 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-003	0.0275	0.0274	1.3000e-004		8.9000e-004	8.9000e-004		8.2000e-004	8.2000e-004	0.0000	11.2109	11.2109	3.6300e-003	0.0000	11.3016
Total	**2.9000e-003**	**0.0275**	**0.0274**	**1.3000e-004**	**0.0000**	**8.9000e-004**	**8.9000e-004**	**0.0000**	**8.2000e-004**	**8.2000e-004**	**0.0000**	**11.2109**	**11.2109**	**3.6300e-003**	**0.0000**	**11.3016**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-003	0.0275	0.0274	1.3000e-004		8.9000e-004	8.9000e-004		8.2000e-004	8.2000e-004	0.0000	11.2109	11.2109	3.6300e-003	0.0000	11.3016
Total	**2.9000e-003**	**0.0275**	**0.0274**	**1.3000e-004**	**0.0000**	**8.9000e-004**	**8.9000e-004**	**0.0000**	**8.2000e-004**	**8.2000e-004**	**0.0000**	**11.2109**	**11.2109**	**3.6300e-003**	**0.0000**	**11.3016**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Excavation 4 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0256	0.2176	0.2693	6.4000e-004		9.6300e-003	9.6300e-003		9.4800e-003	9.4800e-003	0.0000	55.1838	55.1838	8.9400e-003	0.0000	55.4072
Total	**0.0256**	**0.2176**	**0.2693**	**6.4000e-004**	**0.0000**	**9.6300e-003**	**9.6300e-003**	**0.0000**	**9.4800e-003**	**9.4800e-003**	**0.0000**	**55.1838**	**55.1838**	**8.9400e-003**	**0.0000**	**55.4072**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0256	0.2176	0.2693	6.4000e-004		9.6300e-003	9.6300e-003		9.4800e-003	9.4800e-003	0.0000	55.1837	55.1837	8.9400e-003	0.0000	55.4072
Total	**0.0256**	**0.2176**	**0.2693**	**6.4000e-004**	**0.0000**	**9.6300e-003**	**9.6300e-003**	**0.0000**	**9.4800e-003**	**9.4800e-003**	**0.0000**	**55.1837**	**55.1837**	**8.9400e-003**	**0.0000**	**55.4072**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Excavation 5 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0696	2.3305	0.7442	0.0108	0.2592	4.2700e-003	0.2635	0.0712	4.0900e-003	0.0753	0.0000	1,068.4125	1,068.4125	0.0694	0.0000	1,070.1483
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0696**	**2.3305**	**0.7442**	**0.0108**	**0.2592**	**4.2700e-003**	**0.2635**	**0.0712**	**4.0900e-003**	**0.0753**	**0.0000**	**1,068.4125**	**1,068.4125**	**0.0694**	**0.0000**	**1,070.1483**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0696	2.3305	0.7442	0.0108	0.2592	4.2700e-003	0.2635	0.0712	4.0900e-003	0.0753	0.0000	1,068.4125	1,068.4125	0.0694	0.0000	1,070.1483
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0696**	**2.3305**	**0.7442**	**0.0108**	**0.2592**	**4.2700e-003**	**0.2635**	**0.0712**	**4.0900e-003**	**0.0753**	**0.0000**	**1,068.4125**	**1,068.4125**	**0.0694**	**0.0000**	**1,070.1483**

3.7 Pipeline Installation 1 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1921	1.7225	2.1945	3.6600e-003		0.0816	0.0816		0.0775	0.0775	0.0000	315.9370	315.9370	0.0684	0.0000	317.6461
Total	**0.1921**	**1.7225**	**2.1945**	**3.6600e-003**		**0.0816**	**0.0816**		**0.0775**	**0.0775**	**0.0000**	**315.9370**	**315.9370**	**0.0684**	**0.0000**	**317.6461**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3300e-003	0.0779	0.0249	3.6000e-004	0.0254	1.4000e-004	0.0256	6.4900e-003	1.4000e-004	6.6300e-003	0.0000	35.7047	35.7047	2.3200e-003	0.0000	35.7628
Vendor	4.5400e-003	0.1574	0.0462	5.5000e-004	0.0144	1.8000e-004	0.0146	4.1500e-003	1.7000e-004	4.3200e-003	0.0000	53.5122	53.5122	2.9500e-003	0.0000	53.5858
Worker	8.4000e-003	5.7400e-003	0.0676	2.2000e-004	0.0250	1.8000e-004	0.0252	6.6400e-003	1.6000e-004	6.8100e-003	0.0000	20.2244	20.2244	4.8000e-004	0.0000	20.2363
Total	**0.0153**	**0.2410**	**0.1387**	**1.1300e-003**	**0.0648**	**5.0000e-004**	**0.0653**	**0.0173**	**4.7000e-004**	**0.0178**	**0.0000**	**109.4413**	**109.4413**	**5.7500e-003**	**0.0000**	**109.5848**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1921	1.7225	2.1945	3.6600e-003		0.0816	0.0816		0.0775	0.0775	0.0000	315.9366	315.9366	0.0684	0.0000	317.6457
Total	**0.1921**	**1.7225**	**2.1945**	**3.6600e-003**		**0.0816**	**0.0816**		**0.0775**	**0.0775**	**0.0000**	**315.9366**	**315.9366**	**0.0684**	**0.0000**	**317.6457**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3300e-003	0.0779	0.0249	3.6000e-004	0.0254	1.4000e-004	0.0256	6.4900e-003	1.4000e-004	6.6300e-003	0.0000	35.7047	35.7047	2.3200e-003	0.0000	35.7628
Vendor	4.5400e-003	0.1574	0.0462	5.5000e-004	0.0144	1.8000e-004	0.0146	4.1500e-003	1.7000e-004	4.3200e-003	0.0000	53.5122	53.5122	2.9500e-003	0.0000	53.5858
Worker	8.4000e-003	5.7400e-003	0.0676	2.2000e-004	0.0250	1.8000e-004	0.0252	6.6400e-003	1.6000e-004	6.8100e-003	0.0000	20.2244	20.2244	4.8000e-004	0.0000	20.2363
Total	**0.0153**	**0.2410**	**0.1387**	**1.1300e-003**	**0.0648**	**5.0000e-004**	**0.0653**	**0.0173**	**4.7000e-004**	**0.0178**	**0.0000**	**109.4413**	**109.4413**	**5.7500e-003**	**0.0000**	**109.5848**

3.7 Pipeline Installation 1 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3124	2.7802	3.7776	6.3000e-003		0.1255	0.1255		0.1192	0.1192	0.0000	544.6276	544.6276	0.1171	0.0000	547.5560
Total	**0.3124**	**2.7802**	**3.7776**	**6.3000e-003**		**0.1255**	**0.1255**		**0.1192**	**0.1192**	**0.0000**	**544.6276**	**544.6276**	**0.1171**	**0.0000**	**547.5560**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0400e-003	0.1335	0.0435	6.2000e-004	0.0270	2.4000e-004	0.0272	7.0600e-003	2.3000e-004	7.2900e-003	0.0000	61.3221	61.3221	3.9900e-003	0.0000	61.4219
Vendor	7.6600e-003	0.2707	0.0774	9.5000e-004	0.0248	3.0000e-004	0.0251	7.1500e-003	2.9000e-004	7.4400e-003	0.0000	91.9122	91.9122	4.9900e-003	0.0000	92.0371
Worker	0.0137	9.0100e-003	0.1088	3.7000e-004	0.0431	3.0000e-004	0.0434	0.0115	2.8000e-004	0.0117	0.0000	33.7132	33.7132	7.5000e-004	0.0000	33.7320
Total	**0.0254**	**0.4132**	**0.2296**	**1.9400e-003**	**0.0949**	**8.4000e-004**	**0.0957**	**0.0257**	**8.0000e-004**	**0.0265**	**0.0000**	**186.9476**	**186.9476**	**9.7300e-003**	**0.0000**	**187.1910**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3124	2.7802	3.7776	6.3000e-003		0.1255	0.1255		0.1192	0.1192	0.0000	544.6270	544.6270	0.1171	0.0000	547.5553
Total	**0.3124**	**2.7802**	**3.7776**	**6.3000e-003**		**0.1255**	**0.1255**		**0.1192**	**0.1192**	**0.0000**	**544.6270**	**544.6270**	**0.1171**	**0.0000**	**547.5553**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0400e-003	0.1335	0.0435	6.2000e-004	0.0270	2.4000e-004	0.0272	7.0600e-003	2.3000e-004	7.2900e-003	0.0000	61.3221	61.3221	3.9900e-003	0.0000	61.4219
Vendor	7.6600e-003	0.2707	0.0774	9.5000e-004	0.0248	3.0000e-004	0.0251	7.1500e-003	2.9000e-004	7.4400e-003	0.0000	91.9122	91.9122	4.9900e-003	0.0000	92.0371
Worker	0.0137	9.0100e-003	0.1088	3.7000e-004	0.0431	3.0000e-004	0.0434	0.0115	2.8000e-004	0.0117	0.0000	33.7132	33.7132	7.5000e-004	0.0000	33.7320
Total	**0.0254**	**0.4132**	**0.2296**	**1.9400e-003**	**0.0949**	**8.4000e-004**	**0.0957**	**0.0257**	**8.0000e-004**	**0.0265**	**0.0000**	**186.9476**	**186.9476**	**9.7300e-003**	**0.0000**	**187.1910**

3.7 Pipeline Installation 1 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1427	1.2504	1.8537	3.1000e-003		0.0532	0.0532		0.0505	0.0505	0.0000	268.2276	268.2276	0.0573	0.0000	269.6604
Total	**0.1427**	**1.2504**	**1.8537**	**3.1000e-003**		**0.0532**	**0.0532**		**0.0505**	**0.0505**	**0.0000**	**268.2276**	**268.2276**	**0.0573**	**0.0000**	**269.6604**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9800e-003	0.0647	0.0216	3.0000e-004	0.0251	1.2000e-004	0.0252	6.3800e-003	1.1000e-004	6.4900e-003	0.0000	30.0227	30.0227	1.9600e-003	0.0000	30.0718
Vendor	3.6700e-003	0.1321	0.0371	4.6000e-004	0.0122	1.5000e-004	0.0123	3.5200e-003	1.4000e-004	3.6600e-003	0.0000	45.0004	45.0004	2.4200e-003	0.0000	45.0609
Worker	6.4300e-003	4.0600e-003	0.0497	1.8000e-004	0.0212	1.5000e-004	0.0214	5.6400e-003	1.3000e-004	5.7700e-003	0.0000	15.9454	15.9454	3.4000e-004	0.0000	15.9538
Total	**0.0121**	**0.2008**	**0.1084**	**9.4000e-004**	**0.0585**	**4.2000e-004**	**0.0590**	**0.0155**	**3.8000e-004**	**0.0159**	**0.0000**	**90.9685**	**90.9685**	**4.7200e-003**	**0.0000**	**91.0864**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1427	1.2504	1.8537	3.1000e-003		0.0532	0.0532		0.0505	0.0505	0.0000	268.2272	268.2272	0.0573	0.0000	269.6601
Total	**0.1427**	**1.2504**	**1.8537**	**3.1000e-003**		**0.0532**	**0.0532**		**0.0505**	**0.0505**	**0.0000**	**268.2272**	**268.2272**	**0.0573**	**0.0000**	**269.6601**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9800e-003	0.0647	0.0216	3.0000e-004	0.0251	1.2000e-004	0.0252	6.3800e-003	1.1000e-004	6.4900e-003	0.0000	30.0227	30.0227	1.9600e-003	0.0000	30.0718
Vendor	3.6700e-003	0.1321	0.0371	4.6000e-004	0.0122	1.5000e-004	0.0123	3.5200e-003	1.4000e-004	3.6600e-003	0.0000	45.0004	45.0004	2.4200e-003	0.0000	45.0609
Worker	6.4300e-003	4.0600e-003	0.0497	1.8000e-004	0.0212	1.5000e-004	0.0214	5.6400e-003	1.3000e-004	5.7700e-003	0.0000	15.9454	15.9454	3.4000e-004	0.0000	15.9538
Total	**0.0121**	**0.2008**	**0.1084**	**9.4000e-004**	**0.0585**	**4.2000e-004**	**0.0590**	**0.0155**	**3.8000e-004**	**0.0159**	**0.0000**	**90.9685**	**90.9685**	**4.7200e-003**	**0.0000**	**91.0864**

3.8 Pipeline Installation 2 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8100e-003	0.0551	0.0549	2.6000e-004		1.7800e-003	1.7800e-003		1.6400e-003	1.6400e-003	0.0000	22.4219	22.4219	7.2500e-003	0.0000	22.6032
Total	**5.8100e-003**	**0.0551**	**0.0549**	**2.6000e-004**		**1.7800e-003**	**1.7800e-003**		**1.6400e-003**	**1.6400e-003**	**0.0000**	**22.4219**	**22.4219**	**7.2500e-003**	**0.0000**	**22.6032**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8100e-003	0.0551	0.0549	2.6000e-004		1.7800e-003	1.7800e-003		1.6400e-003	1.6400e-003	0.0000	22.4219	22.4219	7.2500e-003	0.0000	22.6031
Total	**5.8100e-003**	**0.0551**	**0.0549**	**2.6000e-004**		**1.7800e-003**	**1.7800e-003**		**1.6400e-003**	**1.6400e-003**	**0.0000**	**22.4219**	**22.4219**	**7.2500e-003**	**0.0000**	**22.6031**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.9 Storage Tank Construction 1 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0505	0.4497	0.5272	1.0000e-003		0.0212	0.0212		0.0209	0.0209	0.0000	85.8339	85.8339	7.3300e-003	0.0000	86.0171
Total	**0.0505**	**0.4497**	**0.5272**	**1.0000e-003**		**0.0212**	**0.0212**		**0.0209**	**0.0209**	**0.0000**	**85.8339**	**85.8339**	**7.3300e-003**	**0.0000**	**86.0171**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.8000e-004	6.0000e-005	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0845	0.0845	1.0000e-005	0.0000	0.0847
Vendor	1.2900e-003	0.0449	0.0132	1.6000e-004	4.1000e-003	5.0000e-005	4.1500e-003	1.1800e-003	5.0000e-005	1.2300e-003	0.0000	15.2557	15.2557	8.4000e-004	0.0000	15.2767
Worker	0.0120	8.1800e-003	0.0964	3.2000e-004	0.0357	2.5000e-004	0.0359	9.4700e-003	2.3000e-004	9.7000e-003	0.0000	28.8286	28.8286	6.8000e-004	0.0000	28.8456
Total	**0.0133**	**0.0532**	**0.1097**	**4.8000e-004**	**0.0399**	**3.0000e-004**	**0.0402**	**0.0107**	**2.8000e-004**	**0.0110**	**0.0000**	**44.1688**	**44.1688**	**1.5300e-003**	**0.0000**	**44.2069**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0505	0.4497	0.5272	1.0000e-003		0.0212	0.0212		0.0209	0.0209	0.0000	85.8338	85.8338	7.3300e-003	0.0000	86.0170
Total	**0.0505**	**0.4497**	**0.5272**	**1.0000e-003**		**0.0212**	**0.0212**		**0.0209**	**0.0209**	**0.0000**	**85.8338**	**85.8338**	**7.3300e-003**	**0.0000**	**86.0170**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.8000e-004	6.0000e-005	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0845	0.0845	1.0000e-005	0.0000	0.0847
Vendor	1.2900e-003	0.0449	0.0132	1.6000e-004	4.1000e-003	5.0000e-005	4.1500e-003	1.1800e-003	5.0000e-005	1.2300e-003	0.0000	15.2557	15.2557	8.4000e-004	0.0000	15.2767
Worker	0.0120	8.1800e-003	0.0964	3.2000e-004	0.0357	2.5000e-004	0.0359	9.4700e-003	2.3000e-004	9.7000e-003	0.0000	28.8286	28.8286	6.8000e-004	0.0000	28.8456
Total	**0.0133**	**0.0532**	**0.1097**	**4.8000e-004**	**0.0399**	**3.0000e-004**	**0.0402**	**0.0107**	**2.8000e-004**	**0.0110**	**0.0000**	**44.1688**	**44.1688**	**1.5300e-003**	**0.0000**	**44.2069**

3.9 Storage Tank Construction 1 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1901	1.6910	2.1162	4.0100e-003		0.0749	0.0749		0.0738	0.0738	0.0000	345.9757	345.9757	0.0289	0.0000	346.6976
Total	**0.1901**	**1.6910**	**2.1162**	**4.0100e-003**		**0.0749**	**0.0749**		**0.0738**	**0.0738**	**0.0000**	**345.9757**	**345.9757**	**0.0289**	**0.0000**	**346.6976**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	7.4000e-004	2.4000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.3394	0.3394	2.0000e-005	0.0000	0.3400
Vendor	5.1100e-003	0.1805	0.0516	6.3000e-004	0.0165	2.0000e-004	0.0167	4.7700e-003	1.9000e-004	4.9600e-003	0.0000	61.2748	61.2748	3.3300e-003	0.0000	61.3581
Worker	0.0457	0.0300	0.3625	1.2400e-003	0.1437	1.0100e-003	0.1447	0.0382	9.3000e-004	0.0391	0.0000	112.3775	112.3775	2.5000e-003	0.0000	112.4400
Total	**0.0509**	**0.2112**	**0.4143**	**1.8700e-003**	**0.1604**	**1.2100e-003**	**0.1616**	**0.0430**	**1.1200e-003**	**0.0441**	**0.0000**	**173.9917**	**173.9917**	**5.8500e-003**	**0.0000**	**174.1380**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1901	1.6910	2.1162	4.0100e-003		0.0749	0.0749		0.0738	0.0738	0.0000	345.9753	345.9753	0.0289	0.0000	346.6972
Total	**0.1901**	**1.6910**	**2.1162**	**4.0100e-003**		**0.0749**	**0.0749**		**0.0738**	**0.0738**	**0.0000**	**345.9753**	**345.9753**	**0.0289**	**0.0000**	**346.6972**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	7.4000e-004	2.4000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.3394	0.3394	2.0000e-005	0.0000	0.3400
Vendor	5.1100e-003	0.1805	0.0516	6.3000e-004	0.0165	2.0000e-004	0.0167	4.7700e-003	1.9000e-004	4.9600e-003	0.0000	61.2748	61.2748	3.3300e-003	0.0000	61.3581
Worker	0.0457	0.0300	0.3625	1.2400e-003	0.1437	1.0100e-003	0.1447	0.0382	9.3000e-004	0.0391	0.0000	112.3775	112.3775	2.5000e-003	0.0000	112.4400
Total	**0.0509**	**0.2112**	**0.4143**	**1.8700e-003**	**0.1604**	**1.2100e-003**	**0.1616**	**0.0430**	**1.1200e-003**	**0.0441**	**0.0000**	**173.9917**	**173.9917**	**5.8500e-003**	**0.0000**	**174.1380**

3.9 Storage Tank Construction 1 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1482	1.3134	1.7558	3.3400e-003		0.0544	0.0544		0.0535	0.0535	0.0000	287.8743	287.8743	0.0232	0.0000	288.4533
Total	**0.1482**	**1.3134**	**1.7558**	**3.3400e-003**		**0.0544**	**0.0544**		**0.0535**	**0.0535**	**0.0000**	**287.8743**	**287.8743**	**0.0232**	**0.0000**	**288.4533**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	6.0000e-004	2.0000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.2808	0.2808	2.0000e-005	0.0000	0.2813
Vendor	4.1400e-003	0.1488	0.0418	5.2000e-004	0.0137	1.7000e-004	0.0139	3.9600e-003	1.6000e-004	4.1200e-003	0.0000	50.6981	50.6981	2.7300e-003	0.0000	50.7663
Worker	0.0362	0.0229	0.2801	9.9000e-004	0.1196	8.2000e-004	0.1204	0.0318	7.6000e-004	0.0325	0.0000	89.8216	89.8216	1.9000e-003	0.0000	89.8690
Total	**0.0404**	**0.1723**	**0.3221**	**1.5100e-003**	**0.1335**	**9.9000e-004**	**0.1345**	**0.0358**	**9.2000e-004**	**0.0367**	**0.0000**	**140.8006**	**140.8006**	**4.6500e-003**	**0.0000**	**140.9166**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1482	1.3134	1.7558	3.3400e-003		0.0544	0.0544		0.0535	0.0535	0.0000	287.8740	287.8740	0.0232	0.0000	288.4530
Total	**0.1482**	**1.3134**	**1.7558**	**3.3400e-003**		**0.0544**	**0.0544**		**0.0535**	**0.0535**	**0.0000**	**287.8740**	**287.8740**	**0.0232**	**0.0000**	**288.4530**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	6.0000e-004	2.0000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.2808	0.2808	2.0000e-005	0.0000	0.2813
Vendor	4.1400e-003	0.1488	0.0418	5.2000e-004	0.0137	1.7000e-004	0.0139	3.9600e-003	1.6000e-004	4.1200e-003	0.0000	50.6981	50.6981	2.7300e-003	0.0000	50.7663
Worker	0.0362	0.0229	0.2801	9.9000e-004	0.1196	8.2000e-004	0.1204	0.0318	7.6000e-004	0.0325	0.0000	89.8216	89.8216	1.9000e-003	0.0000	89.8690
Total	**0.0404**	**0.1723**	**0.3221**	**1.5100e-003**	**0.1335**	**9.9000e-004**	**0.1345**	**0.0358**	**9.2000e-004**	**0.0367**	**0.0000**	**140.8006**	**140.8006**	**4.6500e-003**	**0.0000**	**140.9166**

3.10 Storage Tank Construction 2 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0290	0.3134	0.1774	4.4000e-004		0.0131	0.0131		0.0121	0.0121	0.0000	38.1943	38.1943	0.0123	0.0000	38.5012
Total	**0.0290**	**0.3134**	**0.1774**	**4.4000e-004**		**0.0131**	**0.0131**		**0.0121**	**0.0121**	**0.0000**	**38.1943**	**38.1943**	**0.0123**	**0.0000**	**38.5012**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0290	0.3134	0.1774	4.4000e-004		0.0131	0.0131		0.0121	0.0121	0.0000	38.1942	38.1942	0.0123	0.0000	38.5012
Total	**0.0290**	**0.3134**	**0.1774**	**4.4000e-004**		**0.0131**	**0.0131**		**0.0121**	**0.0121**	**0.0000**	**38.1942**	**38.1942**	**0.0123**	**0.0000**	**38.5012**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.11 Storage Tank Construction 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.2000e-004	8.2000e-004	6.6000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0975	0.0975	1.0000e-005	0.0000	0.0978
Total	**1.2000e-004**	**8.2000e-004**	**6.6000e-004**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.0975**	**0.0975**	**1.0000e-005**	**0.0000**	**0.0978**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.2000e-004	8.2000e-004	6.6000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0975	0.0975	1.0000e-005	0.0000	0.0978
Total	**1.2000e-004**	**8.2000e-004**	**6.6000e-004**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.0975**	**0.0975**	**1.0000e-005**	**0.0000**	**0.0978**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.12 Storage Tank Construction 4 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0125	0.1007	0.1280	2.0000e-004		4.8300e-003	4.8300e-003		4.6100e-003	4.6100e-003	0.0000	16.9191	16.9191	3.7200e-003	0.0000	17.0120
Total	**0.0125**	**0.1007**	**0.1280**	**2.0000e-004**		**4.8300e-003**	**4.8300e-003**		**4.6100e-003**	**4.6100e-003**	**0.0000**	**16.9191**	**16.9191**	**3.7200e-003**	**0.0000**	**17.0120**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0125	0.1007	0.1280	2.0000e-004		4.8300e-003	4.8300e-003		4.6100e-003	4.6100e-003	0.0000	16.9191	16.9191	3.7200e-003	0.0000	17.0120
Total	**0.0125**	**0.1007**	**0.1280**	**2.0000e-004**		**4.8300e-003**	**4.8300e-003**		**4.6100e-003**	**4.6100e-003**	**0.0000**	**16.9191**	**16.9191**	**3.7200e-003**	**0.0000**	**17.0120**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.13 Storage Tank Construction 5 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4400e-003	0.0455	0.0743	1.1000e-004		1.4600e-003	1.4600e-003		1.3400e-003	1.3400e-003	0.0000	9.8417	9.8417	3.1800e-003	0.0000	9.9213
Total	**3.4400e-003**	**0.0455**	**0.0743**	**1.1000e-004**		**1.4600e-003**	**1.4600e-003**		**1.3400e-003**	**1.3400e-003**	**0.0000**	**9.8417**	**9.8417**	**3.1800e-003**	**0.0000**	**9.9213**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4400e-003	0.0455	0.0743	1.1000e-004		1.4600e-003	1.4600e-003		1.3400e-003	1.3400e-003	0.0000	9.8417	9.8417	3.1800e-003	0.0000	9.9213
Total	**3.4400e-003**	**0.0455**	**0.0743**	**1.1000e-004**		**1.4600e-003**	**1.4600e-003**		**1.3400e-003**	**1.3400e-003**	**0.0000**	**9.8417**	**9.8417**	**3.1800e-003**	**0.0000**	**9.9213**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.13 Storage Tank Construction 5 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0134	0.1769	0.2999	4.5000e-004		5.3900e-003	5.3900e-003		4.9600e-003	4.9600e-003	0.0000	39.6616	39.6616	0.0128	0.0000	39.9823
Total	**0.0134**	**0.1769**	**0.2999**	**4.5000e-004**		**5.3900e-003**	**5.3900e-003**		**4.9600e-003**	**4.9600e-003**	**0.0000**	**39.6616**	**39.6616**	**0.0128**	**0.0000**	**39.9823**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0134	0.1769	0.2999	4.5000e-004		5.3900e-003	5.3900e-003		4.9600e-003	4.9600e-003	0.0000	39.6616	39.6616	0.0128	0.0000	39.9823
Total	**0.0134**	**0.1769**	**0.2999**	**4.5000e-004**		**5.3900e-003**	**5.3900e-003**		**4.9600e-003**	**4.9600e-003**	**0.0000**	**39.6616**	**39.6616**	**0.0128**	**0.0000**	**39.9823**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.13 Storage Tank Construction 5 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9700e-003	0.0527	0.0937	1.4000e-004		1.4800e-003	1.4800e-003		1.3600e-003	1.3600e-003	0.0000	12.4125	12.4125	4.0100e-003	0.0000	12.5128
Total	**3.9700e-003**	**0.0527**	**0.0937**	**1.4000e-004**		**1.4800e-003**	**1.4800e-003**		**1.3600e-003**	**1.3600e-003**	**0.0000**	**12.4125**	**12.4125**	**4.0100e-003**	**0.0000**	**12.5128**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9700e-003	0.0527	0.0937	1.4000e-004		1.4800e-003	1.4800e-003		1.3600e-003	1.3600e-003	0.0000	12.4125	12.4125	4.0100e-003	0.0000	12.5128
Total	**3.9700e-003**	**0.0527**	**0.0937**	**1.4000e-004**		**1.4800e-003**	**1.4800e-003**		**1.3600e-003**	**1.3600e-003**	**0.0000**	**12.4125**	**12.4125**	**4.0100e-003**	**0.0000**	**12.5128**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.14 Flow Control Station 1 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1156	0.0586	1.9000e-004		4.8100e-003	4.8100e-003		4.4300e-003	4.4300e-003	0.0000	16.7291	16.7291	5.4100e-003	0.0000	16.8643
Total	**0.0110**	**0.1156**	**0.0586**	**1.9000e-004**		**4.8100e-003**	**4.8100e-003**		**4.4300e-003**	**4.4300e-003**	**0.0000**	**16.7291**	**16.7291**	**5.4100e-003**	**0.0000**	**16.8643**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	9.0900e-003	2.6000e-003	3.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	3.0871	3.0871	1.7000e-004	0.0000	3.0913
Worker	1.1500e-003	7.6000e-004	9.1300e-003	3.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.8309	2.8309	6.0000e-005	0.0000	2.8325
Total	**1.4100e-003**	**9.8500e-003**	**0.0117**	**6.0000e-005**	**4.4500e-003**	**4.0000e-005**	**4.4900e-003**	**1.2000e-003**	**3.0000e-005**	**1.2300e-003**	**0.0000**	**5.9180**	**5.9180**	**2.3000e-004**	**0.0000**	**5.9238**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1156	0.0586	1.9000e-004		4.8100e-003	4.8100e-003		4.4300e-003	4.4300e-003	0.0000	16.7291	16.7291	5.4100e-003	0.0000	16.8643
Total	**0.0110**	**0.1156**	**0.0586**	**1.9000e-004**		**4.8100e-003**	**4.8100e-003**		**4.4300e-003**	**4.4300e-003**	**0.0000**	**16.7291**	**16.7291**	**5.4100e-003**	**0.0000**	**16.8643**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	9.0900e-003	2.6000e-003	3.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	3.0871	3.0871	1.7000e-004	0.0000	3.0913
Worker	1.1500e-003	7.6000e-004	9.1300e-003	3.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.8309	2.8309	6.0000e-005	0.0000	2.8325
Total	**1.4100e-003**	**9.8500e-003**	**0.0117**	**6.0000e-005**	**4.4500e-003**	**4.0000e-005**	**4.4900e-003**	**1.2000e-003**	**3.0000e-005**	**1.2300e-003**	**0.0000**	**5.9180**	**5.9180**	**2.3000e-004**	**0.0000**	**5.9238**

3.14 Flow Control Station 1 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0341	0.3453	0.1893	6.3000e-004		0.0147	0.0147		0.0135	0.0135	0.0000	55.2585	55.2585	0.0179	0.0000	55.7053
Total	**0.0341**	**0.3453**	**0.1893**	**6.3000e-004**		**0.0147**	**0.0147**		**0.0135**	**0.0135**	**0.0000**	**55.2585**	**55.2585**	**0.0179**	**0.0000**	**55.7053**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.3000e-004	0.0298	8.3500e-003	1.0000e-004	2.7500e-003	3.0000e-005	2.7800e-003	7.9000e-004	3.0000e-005	8.2000e-004	0.0000	10.1396	10.1396	5.5000e-004	0.0000	10.1533
Worker	3.6200e-003	2.2900e-003	0.0280	1.0000e-004	0.0120	8.0000e-005	0.0120	3.1800e-003	8.0000e-005	3.2500e-003	0.0000	8.9822	8.9822	1.9000e-004	0.0000	8.9869
Total	**4.4500e-003**	**0.0321**	**0.0364**	**2.0000e-004**	**0.0147**	**1.1000e-004**	**0.0148**	**3.9700e-003**	**1.1000e-004**	**4.0700e-003**	**0.0000**	**19.1218**	**19.1218**	**7.4000e-004**	**0.0000**	**19.1402**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0341	0.3453	0.1893	6.3000e-004		0.0147	0.0147		0.0135	0.0135	0.0000	55.2584	55.2584	0.0179	0.0000	55.7052
Total	**0.0341**	**0.3453**	**0.1893**	**6.3000e-004**		**0.0147**	**0.0147**		**0.0135**	**0.0135**	**0.0000**	**55.2584**	**55.2584**	**0.0179**	**0.0000**	**55.7052**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.3000e-004	0.0298	8.3500e-003	1.0000e-004	2.7500e-003	3.0000e-005	2.7800e-003	7.9000e-004	3.0000e-005	8.2000e-004	0.0000	10.1396	10.1396	5.5000e-004	0.0000	10.1533
Worker	3.6200e-003	2.2900e-003	0.0280	1.0000e-004	0.0120	8.0000e-005	0.0120	3.1800e-003	8.0000e-005	3.2500e-003	0.0000	8.9822	8.9822	1.9000e-004	0.0000	8.9869
Total	**4.4500e-003**	**0.0321**	**0.0364**	**2.0000e-004**	**0.0147**	**1.1000e-004**	**0.0148**	**3.9700e-003**	**1.1000e-004**	**4.0700e-003**	**0.0000**	**19.1218**	**19.1218**	**7.4000e-004**	**0.0000**	**19.1402**

3.15 Flow Control Station 2 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.4500e-003	0.0206	0.0298	5.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	4.5217	4.5217	2.0000e-004	0.0000	4.5266
Total	**2.4500e-003**	**0.0206**	**0.0298**	**5.0000e-005**		**9.4000e-004**	**9.4000e-004**		**9.4000e-004**	**9.4000e-004**	**0.0000**	**4.5217**	**4.5217**	**2.0000e-004**	**0.0000**	**4.5266**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.4500e-003	0.0206	0.0298	5.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	4.5217	4.5217	2.0000e-004	0.0000	4.5266
Total	**2.4500e-003**	**0.0206**	**0.0298**	**5.0000e-005**		**9.4000e-004**	**9.4000e-004**		**9.4000e-004**	**9.4000e-004**	**0.0000**	**4.5217**	**4.5217**	**2.0000e-004**	**0.0000**	**4.5266**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.16 Flow Control Station 3 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.8000e-003	0.0107	0.0125	2.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	1.4417	1.4417	1.5000e-004	0.0000	1.4453
Total	**1.8000e-003**	**0.0107**	**0.0125**	**2.0000e-005**		**3.8000e-004**	**3.8000e-004**		**3.8000e-004**	**3.8000e-004**	**0.0000**	**1.4417**	**1.4417**	**1.5000e-004**	**0.0000**	**1.4453**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.8000e-003	0.0107	0.0125	2.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	1.4417	1.4417	1.5000e-004	0.0000	1.4453
Total	**1.8000e-003**	**0.0107**	**0.0125**	**2.0000e-005**		**3.8000e-004**	**3.8000e-004**		**3.8000e-004**	**3.8000e-004**	**0.0000**	**1.4417**	**1.4417**	**1.5000e-004**	**0.0000**	**1.4453**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.17 Flow Control Station 4 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3800e-003	0.0446	0.0755	1.1000e-004		1.3600e-003	1.3600e-003		1.2500e-003	1.2500e-003	0.0000	9.9911	9.9911	3.2300e-003	0.0000	10.0719
Total	**3.3800e-003**	**0.0446**	**0.0755**	**1.1000e-004**		**1.3600e-003**	**1.3600e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**9.9911**	**9.9911**	**3.2300e-003**	**0.0000**	**10.0719**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3800e-003	0.0446	0.0755	1.1000e-004		1.3600e-003	1.3600e-003		1.2500e-003	1.2500e-003	0.0000	9.9911	9.9911	3.2300e-003	0.0000	10.0719
Total	**3.3800e-003**	**0.0446**	**0.0755**	**1.1000e-004**		**1.3600e-003**	**1.3600e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**9.9911**	**9.9911**	**3.2300e-003**	**0.0000**	**10.0719**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.18 Flow Control Station 5 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.1300e-003	0.0627	0.1210	1.8000e-004		2.9800e-003	2.9800e-003		2.7400e-003	2.7400e-003	0.0000	16.0070	16.0070	5.1800e-003	0.0000	16.1364
Total	**7.1300e-003**	**0.0627**	**0.1210**	**1.8000e-004**		**2.9800e-003**	**2.9800e-003**		**2.7400e-003**	**2.7400e-003**	**0.0000**	**16.0070**	**16.0070**	**5.1800e-003**	**0.0000**	**16.1364**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.7200e-003	0.1230	0.0401	5.7000e-004	0.0138	2.2000e-004	0.0140	3.7800e-003	2.2000e-004	3.9900e-003	0.0000	56.4850	56.4850	3.6800e-003	0.0000	56.5769
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.7200e-003**	**0.1230**	**0.0401**	**5.7000e-004**	**0.0138**	**2.2000e-004**	**0.0140**	**3.7800e-003**	**2.2000e-004**	**3.9900e-003**	**0.0000**	**56.4850**	**56.4850**	**3.6800e-003**	**0.0000**	**56.5769**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.1300e-003	0.0627	0.1210	1.8000e-004		2.9800e-003	2.9800e-003		2.7400e-003	2.7400e-003	0.0000	16.0070	16.0070	5.1800e-003	0.0000	16.1364
Total	**7.1300e-003**	**0.0627**	**0.1210**	**1.8000e-004**		**2.9800e-003**	**2.9800e-003**		**2.7400e-003**	**2.7400e-003**	**0.0000**	**16.0070**	**16.0070**	**5.1800e-003**	**0.0000**	**16.1364**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.7200e-003	0.1230	0.0401	5.7000e-004	0.0138	2.2000e-004	0.0140	3.7800e-003	2.2000e-004	3.9900e-003	0.0000	56.4850	56.4850	3.6800e-003	0.0000	56.5769
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.7200e-003**	**0.1230**	**0.0401**	**5.7000e-004**	**0.0138**	**2.2000e-004**	**0.0140**	**3.7800e-003**	**2.2000e-004**	**3.9900e-003**	**0.0000**	**56.4850**	**56.4850**	**3.6800e-003**	**0.0000**	**56.5769**

3.19 Flow Control Station 6 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0200e-003	0.0107	0.0130	2.0000e-005		5.6000e-004	5.6000e-004		5.2000e-004	5.2000e-004	0.0000	1.6139	1.6139	5.2000e-004	0.0000	1.6270
Total	**1.0200e-003**	**0.0107**	**0.0130**	**2.0000e-005**		**5.6000e-004**	**5.6000e-004**		**5.2000e-004**	**5.2000e-004**	**0.0000**	**1.6139**	**1.6139**	**5.2000e-004**	**0.0000**	**1.6270**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0200e-003	0.0107	0.0130	2.0000e-005		5.6000e-004	5.6000e-004		5.2000e-004	5.2000e-004	0.0000	1.6139	1.6139	5.2000e-004	0.0000	1.6270
Total	**1.0200e-003**	**0.0107**	**0.0130**	**2.0000e-005**		**5.6000e-004**	**5.6000e-004**		**5.2000e-004**	**5.2000e-004**	**0.0000**	**1.6139**	**1.6139**	**5.2000e-004**	**0.0000**	**1.6270**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.20 Flow Control Station 7 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0146	0.1409	0.2106	3.4000e-004		5.9500e-003	5.9500e-003		5.7300e-003	5.7300e-003	0.0000	29.5419	29.5419	4.9000e-003	0.0000	29.6643
Total	**0.0146**	**0.1409**	**0.2106**	**3.4000e-004**		**5.9500e-003**	**5.9500e-003**		**5.7300e-003**	**5.7300e-003**	**0.0000**	**29.5419**	**29.5419**	**4.9000e-003**	**0.0000**	**29.6643**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0146	0.1409	0.2106	3.4000e-004		5.9500e-003	5.9500e-003		5.7300e-003	5.7300e-003	0.0000	29.5418	29.5418	4.9000e-003	0.0000	29.6643
Total	**0.0146**	**0.1409**	**0.2106**	**3.4000e-004**		**5.9500e-003**	**5.9500e-003**		**5.7300e-003**	**5.7300e-003**	**0.0000**	**29.5418**	**29.5418**	**4.9000e-003**	**0.0000**	**29.6643**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.21 Storage Tank Construction 6 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.7300e-003	0.0621	0.0899	1.4000e-004		3.2100e-003	3.2100e-003		2.9600e-003	2.9600e-003	0.0000	12.2189	12.2189	3.9500e-003	0.0000	12.3177
Total	**6.7300e-003**	**0.0621**	**0.0899**	**1.4000e-004**		**3.2100e-003**	**3.2100e-003**		**2.9600e-003**	**2.9600e-003**	**0.0000**	**12.2189**	**12.2189**	**3.9500e-003**	**0.0000**	**12.3177**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.7300e-003	0.0621	0.0899	1.4000e-004		3.2100e-003	3.2100e-003		2.9600e-003	2.9600e-003	0.0000	12.2189	12.2189	3.9500e-003	0.0000	12.3177
Total	**6.7300e-003**	**0.0621**	**0.0899**	**1.4000e-004**		**3.2100e-003**	**3.2100e-003**		**2.9600e-003**	**2.9600e-003**	**0.0000**	**12.2189**	**12.2189**	**3.9500e-003**	**0.0000**	**12.3177**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.22 Finish Grading/Site Improvements - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2191	0.0000	0.2191	0.1114	0.0000	0.1114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0515	0.5356	0.3953	9.4000e-004		0.0217	0.0217		0.0200	0.0200	0.0000	82.6449	82.6449	0.0266	0.0000	83.3103
Total	**0.0515**	**0.5356**	**0.3953**	**9.4000e-004**	**0.2191**	**0.0217**	**0.2409**	**0.1114**	**0.0200**	**0.1315**	**0.0000**	**82.6449**	**82.6449**	**0.0266**	**0.0000**	**83.3103**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-003	0.0360	0.0101	1.3000e-004	3.3300e-003	4.0000e-005	3.3700e-003	9.6000e-004	4.0000e-005	1.0000e-003	0.0000	12.2792	12.2792	6.6000e-004	0.0000	12.2957
Worker	3.2900e-003	2.0800e-003	0.0254	9.0000e-005	0.0109	7.0000e-005	0.0109	2.8800e-003	7.0000e-005	2.9500e-003	0.0000	8.1581	8.1581	1.7000e-004	0.0000	8.1624
Total	**4.2900e-003**	**0.0381**	**0.0356**	**2.2000e-004**	**0.0142**	**1.1000e-004**	**0.0143**	**3.8400e-003**	**1.1000e-004**	**3.9500e-003**	**0.0000**	**20.4373**	**20.4373**	**8.3000e-004**	**0.0000**	**20.4581**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0855	0.0000	0.0855	0.0435	0.0000	0.0435	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0515	0.5356	0.3953	9.4000e-004		0.0217	0.0217		0.0200	0.0200	0.0000	82.6448	82.6448	0.0266	0.0000	83.3102
Total	**0.0515**	**0.5356**	**0.3953**	**9.4000e-004**	**0.0855**	**0.0217**	**0.1072**	**0.0435**	**0.0200**	**0.0635**	**0.0000**	**82.6448**	**82.6448**	**0.0266**	**0.0000**	**83.3102**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-003	0.0360	0.0101	1.3000e-004	3.3300e-003	4.0000e-005	3.3700e-003	9.6000e-004	4.0000e-005	1.0000e-003	0.0000	12.2792	12.2792	6.6000e-004	0.0000	12.2957
Worker	3.2900e-003	2.0800e-003	0.0254	9.0000e-005	0.0109	7.0000e-005	0.0109	2.8800e-003	7.0000e-005	2.9500e-003	0.0000	8.1581	8.1581	1.7000e-004	0.0000	8.1624
Total	**4.2900e-003**	**0.0381**	**0.0356**	**2.2000e-004**	**0.0142**	**1.1000e-004**	**0.0143**	**3.8400e-003**	**1.1000e-004**	**3.9500e-003**	**0.0000**	**20.4373**	**20.4373**	**8.3000e-004**	**0.0000**	**20.4581**

3.22 Finish Grading/Site Improvements - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0535	0.0000	0.0535	0.0204	0.0000	0.0204	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5800e-003	0.0893	0.0659	1.6000e-004		3.6200e-003	3.6200e-003		3.3400e-003	3.3400e-003	0.0000	13.7742	13.7742	4.4400e-003	0.0000	13.8850
Total	**8.5800e-003**	**0.0893**	**0.0659**	**1.6000e-004**	**0.0535**	**3.6200e-003**	**0.0572**	**0.0204**	**3.3400e-003**	**0.0238**	**0.0000**	**13.7742**	**13.7742**	**4.4400e-003**	**0.0000**	**13.8850**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	5.9500e-003	1.6500e-003	2.0000e-005	5.5000e-004	1.0000e-005	5.6000e-004	1.6000e-004	1.0000e-005	1.7000e-004	0.0000	2.0355	2.0355	1.1000e-004	0.0000	2.0382
Worker	5.2000e-004	3.2000e-004	3.9600e-003	1.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.3115	1.3115	3.0000e-005	0.0000	1.3121
Total	**6.8000e-004**	**6.2700e-003**	**5.6100e-003**	**3.0000e-005**	**2.3600e-003**	**2.0000e-005**	**2.3800e-003**	**6.4000e-004**	**2.0000e-005**	**6.6000e-004**	**0.0000**	**3.3469**	**3.3469**	**1.4000e-004**	**0.0000**	**3.3503**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0209	0.0000	0.0209	7.9600e-003	0.0000	7.9600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5800e-003	0.0893	0.0659	1.6000e-004		3.6200e-003	3.6200e-003		3.3400e-003	3.3400e-003	0.0000	13.7741	13.7741	4.4400e-003	0.0000	13.8850
Total	**8.5800e-003**	**0.0893**	**0.0659**	**1.6000e-004**	**0.0209**	**3.6200e-003**	**0.0245**	**7.9600e-003**	**3.3400e-003**	**0.0113**	**0.0000**	**13.7741**	**13.7741**	**4.4400e-003**	**0.0000**	**13.8850**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	5.9500e-003	1.6500e-003	2.0000e-005	5.5000e-004	1.0000e-005	5.6000e-004	1.6000e-004	1.0000e-005	1.7000e-004	0.0000	2.0355	2.0355	1.1000e-004	0.0000	2.0382
Worker	5.2000e-004	3.2000e-004	3.9600e-003	1.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.3115	1.3115	3.0000e-005	0.0000	1.3121
Total	**6.8000e-004**	**6.2700e-003**	**5.6100e-003**	**3.0000e-005**	**2.3600e-003**	**2.0000e-005**	**2.3800e-003**	**6.4000e-004**	**2.0000e-005**	**6.6000e-004**	**0.0000**	**3.3469**	**3.3469**	**1.4000e-004**	**0.0000**	**3.3503**

3.23 Storage Tank Construction 7 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0900e-003	0.0590	0.0881	1.6000e-004		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	13.3950	13.3950	5.7000e-004	0.0000	13.4092
Total	**7.0900e-003**	**0.0590**	**0.0881**	**1.6000e-004**		**2.4400e-003**	**2.4400e-003**		**2.4400e-003**	**2.4400e-003**	**0.0000**	**13.3950**	**13.3950**	**5.7000e-004**	**0.0000**	**13.4092**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0900e-003	0.0590	0.0881	1.6000e-004		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	13.3950	13.3950	5.7000e-004	0.0000	13.4092
Total	**7.0900e-003**	**0.0590**	**0.0881**	**1.6000e-004**		**2.4400e-003**	**2.4400e-003**		**2.4400e-003**	**2.4400e-003**	**0.0000**	**13.3950**	**13.3950**	**5.7000e-004**	**0.0000**	**13.4092**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.24 Demoltion - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.9800e-003	0.0000	5.9800e-003	9.1000e-004	0.0000	9.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1459	1.3260	1.4893	2.7800e-003		0.0550	0.0550		0.0522	0.0522	0.0000	241.3740	241.3740	0.0466	0.0000	242.5392
Total	**0.1459**	**1.3260**	**1.4893**	**2.7800e-003**	**5.9800e-003**	**0.0550**	**0.0610**	**9.1000e-004**	**0.0522**	**0.0531**	**0.0000**	**241.3740**	**241.3740**	**0.0466**	**0.0000**	**242.5392**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	5.8500e-003	2.0400e-003	3.0000e-005	6.9000e-004	1.0000e-005	7.0000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	2.7797	2.7797	1.8000e-004	0.0000	2.7843
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8600e-003	3.4500e-003	0.0436	1.6000e-004	0.0212	1.3000e-004	0.0214	5.6400e-003	1.2000e-004	5.7600e-003	0.0000	14.8816	14.8816	2.8000e-004	0.0000	14.8887
Total	**6.0400e-003**	**9.3000e-003**	**0.0456**	**1.9000e-004**	**0.0219**	**1.4000e-004**	**0.0221**	**5.8300e-003**	**1.3000e-004**	**5.9600e-003**	**0.0000**	**17.6613**	**17.6613**	**4.6000e-004**	**0.0000**	**17.6730**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3300e-003	0.0000	2.3300e-003	3.5000e-004	0.0000	3.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1459	1.3260	1.4893	2.7800e-003		0.0550	0.0550		0.0522	0.0522	0.0000	241.3737	241.3737	0.0466	0.0000	242.5389
Total	**0.1459**	**1.3260**	**1.4893**	**2.7800e-003**	**2.3300e-003**	**0.0550**	**0.0573**	**3.5000e-004**	**0.0522**	**0.0526**	**0.0000**	**241.3737**	**241.3737**	**0.0466**	**0.0000**	**242.5389**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	5.8500e-003	2.0400e-003	3.0000e-005	6.9000e-004	1.0000e-005	7.0000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	2.7797	2.7797	1.8000e-004	0.0000	2.7843
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8600e-003	3.4500e-003	0.0436	1.6000e-004	0.0212	1.3000e-004	0.0214	5.6400e-003	1.2000e-004	5.7600e-003	0.0000	14.8816	14.8816	2.8000e-004	0.0000	14.8887
Total	**6.0400e-003**	**9.3000e-003**	**0.0456**	**1.9000e-004**	**0.0219**	**1.4000e-004**	**0.0221**	**5.8300e-003**	**1.3000e-004**	**5.9600e-003**	**0.0000**	**17.6613**	**17.6613**	**4.6000e-004**	**0.0000**	**17.6730**

3.25 Pump Station Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1030	1.0712	0.7907	1.8900e-003		0.0435	0.0435		0.0400	0.0400	0.0000	165.2897	165.2897	0.0532	0.0000	166.6205
Total	**0.1030**	**1.0712**	**0.7907**	**1.8900e-003**		**0.0435**	**0.0435**		**0.0400**	**0.0400**	**0.0000**	**165.2897**	**165.2897**	**0.0532**	**0.0000**	**166.6205**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	7.2000e-004	2.5000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.3416	0.3416	2.0000e-005	0.0000	0.3422
Vendor	1.2000e-003	0.0442	0.0122	1.6000e-004	4.1600e-003	5.0000e-005	4.2100e-003	1.2000e-003	5.0000e-005	1.2500e-003	0.0000	15.1919	15.1919	8.0000e-004	0.0000	15.2119
Worker	5.9900e-003	3.5300e-003	0.0446	1.7000e-004	0.0217	1.4000e-004	0.0219	5.7700e-003	1.3000e-004	5.8900e-003	0.0000	15.2277	15.2277	2.9000e-004	0.0000	15.2349
Total	**7.2100e-003**	**0.0485**	**0.0570**	**3.3000e-004**	**0.0262**	**1.9000e-004**	**0.0264**	**7.0400e-003**	**1.8000e-004**	**7.2100e-003**	**0.0000**	**30.7613**	**30.7613**	**1.1100e-003**	**0.0000**	**30.7890**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1030	1.0712	0.7907	1.8900e-003		0.0435	0.0435		0.0400	0.0400	0.0000	165.2896	165.2896	0.0532	0.0000	166.6203
Total	**0.1030**	**1.0712**	**0.7907**	**1.8900e-003**		**0.0435**	**0.0435**		**0.0400**	**0.0400**	**0.0000**	**165.2896**	**165.2896**	**0.0532**	**0.0000**	**166.6203**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	7.2000e-004	2.5000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.3416	0.3416	2.0000e-005	0.0000	0.3422
Vendor	1.2000e-003	0.0442	0.0122	1.6000e-004	4.1600e-003	5.0000e-005	4.2100e-003	1.2000e-003	5.0000e-005	1.2500e-003	0.0000	15.1919	15.1919	8.0000e-004	0.0000	15.2119
Worker	5.9900e-003	3.5300e-003	0.0446	1.7000e-004	0.0217	1.4000e-004	0.0219	5.7700e-003	1.3000e-004	5.8900e-003	0.0000	15.2277	15.2277	2.9000e-004	0.0000	15.2349
Total	**7.2100e-003**	**0.0485**	**0.0570**	**3.3000e-004**	**0.0262**	**1.9000e-004**	**0.0264**	**7.0400e-003**	**1.8000e-004**	**7.2100e-003**	**0.0000**	**30.7613**	**30.7613**	**1.1100e-003**	**0.0000**	**30.7890**

3.25 Pump Station Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2029	2.1099	1.5573	3.7100e-003		0.0856	0.0856		0.0788	0.0788	0.0000	325.5707	325.5707	0.1049	0.0000	328.1920
Total	**0.2029**	**2.1099**	**1.5573**	**3.7100e-003**		**0.0856**	**0.0856**		**0.0788**	**0.0788**	**0.0000**	**325.5707**	**325.5707**	**0.1049**	**0.0000**	**328.1920**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.4000e-003	5.0000e-004	1.0000e-005	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.6702	0.6702	4.0000e-005	0.0000	0.6713
Vendor	2.3200e-003	0.0864	0.0236	3.1000e-004	8.1900e-003	9.0000e-005	8.2900e-003	2.3600e-003	9.0000e-005	2.4500e-003	0.0000	29.7996	29.7996	1.5500e-003	0.0000	29.8383
Worker	0.0112	6.4200e-003	0.0827	3.2000e-004	0.0428	2.5000e-004	0.0430	0.0114	2.3000e-004	0.0116	0.0000	29.1093	29.1093	5.3000e-004	0.0000	29.1224
Total	**0.0136**	**0.0942**	**0.1068**	**6.4000e-004**	**0.0513**	**3.4000e-004**	**0.0516**	**0.0138**	**3.2000e-004**	**0.0141**	**0.0000**	**59.5790**	**59.5790**	**2.1200e-003**	**0.0000**	**59.6319**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2029	2.1099	1.5573	3.7100e-003		0.0856	0.0856		0.0788	0.0788	0.0000	325.5703	325.5703	0.1049	0.0000	328.1916
Total	**0.2029**	**2.1099**	**1.5573**	**3.7100e-003**		**0.0856**	**0.0856**		**0.0788**	**0.0788**	**0.0000**	**325.5703**	**325.5703**	**0.1049**	**0.0000**	**328.1916**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.4000e-003	5.0000e-004	1.0000e-005	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.6702	0.6702	4.0000e-005	0.0000	0.6713
Vendor	2.3200e-003	0.0864	0.0236	3.1000e-004	8.1900e-003	9.0000e-005	8.2900e-003	2.3600e-003	9.0000e-005	2.4500e-003	0.0000	29.7996	29.7996	1.5500e-003	0.0000	29.8383
Worker	0.0112	6.4200e-003	0.0827	3.2000e-004	0.0428	2.5000e-004	0.0430	0.0114	2.3000e-004	0.0116	0.0000	29.1093	29.1093	5.3000e-004	0.0000	29.1224
Total	**0.0136**	**0.0942**	**0.1068**	**6.4000e-004**	**0.0513**	**3.4000e-004**	**0.0516**	**0.0138**	**3.2000e-004**	**0.0141**	**0.0000**	**59.5790**	**59.5790**	**2.1200e-003**	**0.0000**	**59.6319**

3.25 Pump Station Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1131	1.1767	0.8685	2.0700e-003		0.0478	0.0478		0.0440	0.0440	0.0000	181.5683	181.5683	0.0585	0.0000	183.0301
Total	**0.1131**	**1.1767**	**0.8685**	**2.0700e-003**		**0.0478**	**0.0478**		**0.0440**	**0.0440**	**0.0000**	**181.5683**	**181.5683**	**0.0585**	**0.0000**	**183.0301**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	7.7000e-004	2.8000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.3723	0.3723	2.0000e-005	0.0000	0.3729
Vendor	1.2800e-003	0.0478	0.0130	1.7000e-004	4.5700e-003	5.0000e-005	4.6200e-003	1.3200e-003	5.0000e-005	1.3700e-003	0.0000	16.5574	16.5574	8.5000e-004	0.0000	16.5787
Worker	5.8900e-003	3.3000e-003	0.0433	1.7000e-004	0.0239	1.3000e-004	0.0240	6.3400e-003	1.2000e-004	6.4600e-003	0.0000	15.7965	15.7965	2.7000e-004	0.0000	15.8033
Total	**7.1900e-003**	**0.0519**	**0.0566**	**3.4000e-004**	**0.0287**	**1.8000e-004**	**0.0289**	**7.7300e-003**	**1.7000e-004**	**7.9000e-003**	**0.0000**	**32.7263**	**32.7263**	**1.1400e-003**	**0.0000**	**32.7549**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1131	1.1767	0.8685	2.0700e-003		0.0478	0.0478		0.0440	0.0440	0.0000	181.5681	181.5681	0.0585	0.0000	183.0299
Total	**0.1131**	**1.1767**	**0.8685**	**2.0700e-003**		**0.0478**	**0.0478**		**0.0440**	**0.0440**	**0.0000**	**181.5681**	**181.5681**	**0.0585**	**0.0000**	**183.0299**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	7.7000e-004	2.8000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.3723	0.3723	2.0000e-005	0.0000	0.3729
Vendor	1.2800e-003	0.0478	0.0130	1.7000e-004	4.5700e-003	5.0000e-005	4.6200e-003	1.3200e-003	5.0000e-005	1.3700e-003	0.0000	16.5574	16.5574	8.5000e-004	0.0000	16.5787
Worker	5.8900e-003	3.3000e-003	0.0433	1.7000e-004	0.0239	1.3000e-004	0.0240	6.3400e-003	1.2000e-004	6.4600e-003	0.0000	15.7965	15.7965	2.7000e-004	0.0000	15.8033
Total	**7.1900e-003**	**0.0519**	**0.0566**	**3.4000e-004**	**0.0287**	**1.8000e-004**	**0.0289**	**7.7300e-003**	**1.7000e-004**	**7.9000e-003**	**0.0000**	**32.7263**	**32.7263**	**1.1400e-003**	**0.0000**	**32.7549**

CalEEMod Version: CalEEMod.2016.3.2

Date: 10/8/2019 9:44 AM

De Soto Storage Tanks Project
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	5.00	User Defined Unit	5.00	217,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - De Soto Storage Tanks Project. SCAQMD.

Land Use - Project consists of 3,270-linear-foot of pipeline and a 20 MG storage tank

Construction Phase - Construction would occur January 2023 through July 2029.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - No construction equipment assumed.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

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Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Equipment use base on information from applicant.

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Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Trips and VMT - Updated worker, vendor, and haul trips per applicant. Updated haul trip length: approximately 90 miles to LADWP Mojave Yard, assumed default 20 miles for rest.

On-road Fugitive Dust -

Demolition - 559 tons of debris.

Grading - 340,000 CY exported offsite.

Construction Off-road Equipment Mitigation - Comply with Rule 403: water three times per day vehicle speeds of 15 mph. Use of Tier 4 interim.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	11.00
tblConstructionPhase	NumDays	230.00	27.00
tblConstructionPhase	NumDays	230.00	409.00

tblConstructionPhase	NumDays	230.00	284.00
tblConstructionPhase	NumDays	230.00	8.00
tblConstructionPhase	NumDays	230.00	14.00
tblConstructionPhase	NumDays	230.00	66.00
tblConstructionPhase	NumDays	230.00	44.00
tblConstructionPhase	NumDays	230.00	28.00
tblConstructionPhase	NumDays	230.00	57.00
tblConstructionPhase	NumDays	230.00	45.00
tblConstructionPhase	NumDays	230.00	23.00
tblConstructionPhase	NumDays	230.00	537.00
tblConstructionPhase	NumDays	230.00	545.00
tblConstructionPhase	NumDays	230.00	44.00
tblConstructionPhase	NumDays	20.00	129.00
tblConstructionPhase	NumDays	8.00	185.00
tblConstructionPhase	NumDays	8.00	19.00
tblConstructionPhase	NumDays	8.00	77.00
tblConstructionPhase	NumDays	8.00	27.00
tblConstructionPhase	NumDays	8.00	55.00
tblConstructionPhase	NumDays	8.00	185.00
tblGrading	AcresOfGrading	0.00	9.50
tblLandUse	LandUseSquareFeet	0.00	217,800.00
tblLandUse	LotAcreage	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Storage Tank Construction 4
tblOffRoadEquipment	PhaseName		Demoltion
tblOffRoadEquipment	PhaseName		Pipeline Installation 1
tblOffRoadEquipment	PhaseName		Excavation 3
tblOffRoadEquipment	PhaseName		Excavation 4
tblOffRoadEquipment	PhaseName		Pipeline Installation 2
tblOffRoadEquipment	PhaseName		Storage Tank Construction 7
tblOffRoadEquipment	PhaseName		Excavation 4
tblOffRoadEquipment	PhaseName		Excavation 2
tblOffRoadEquipment	PhaseName		Finish Grading/Site Improvements

tblOffRoadEquipment	PhaseName		Demoltion
tblOffRoadEquipment	PhaseName		Pipeline Installation 1
tblOffRoadEquipment	PhaseName		Demoltion
tblOffRoadEquipment	PhaseName		Flow Control Station 5
tblOffRoadEquipment	PhaseName		Pipeline Installation 1
tblOffRoadEquipment	PhaseName		Excavation 1
tblOffRoadEquipment	PhaseName		Demoltion
tblOffRoadEquipment	PhaseName		Pipeline Installation 1
tblOffRoadEquipment	PhaseName		Pump Station Construction
tblOffRoadEquipment	PhaseName		Storage Tank Construction 2
tblOffRoadEquipment	PhaseName		Storage Tank Construction 4
tblOffRoadEquipment	PhaseName		Storage Tank Construction 6
tblOffRoadEquipment	PhaseName		Pipeline Installation 1
tblOffRoadEquipment	PhaseName		Finish Grading/Site Improvements
tblOffRoadEquipment	PhaseName		Pump Station Construction
tblOffRoadEquipment	PhaseName		Flow Control Station 7
tblOffRoadEquipment	PhaseName		Finish Grading/Site Improvements
tblOffRoadEquipment	PhaseName		Pump Station Construction
tblOffRoadEquipment	PhaseName		Storage Tank Construction 2
tblOffRoadEquipment	PhaseName		Storage Tank Construction 3
tblOffRoadEquipment	PhaseName		Flow Control Station 3
tblOffRoadEquipment	PhaseName		Flow Control Station 2
tblOffRoadEquipment	PhaseName		Storage Tank Construction 7
tblOffRoadEquipment	PhaseName		Excavation 4
tblOffRoadEquipment	PhaseName		Pipeline Installation 1
tblOffRoadEquipment	PhaseName		Storage Tank Construction 1
tblOffRoadEquipment	PhaseName		Flow Control Station 6
tblOffRoadEquipment	PhaseName		Finish Grading/Site Improvements
tblOffRoadEquipment	PhaseName		Pump Station Construction
tblOffRoadEquipment	PhaseName		Storage Tank Construction 2
tblOffRoadEquipment	PhaseName		Storage Tank Construction 5

tblOffRoadEquipment	PhaseName		Flow Control Station 4
tblOffRoadEquipment	PhaseName		Demoltion
tblOffRoadEquipment	PhaseName		Pipeline Installation 1
tblOffRoadEquipment	PhaseName		Pump Station Construction
tblOffRoadEquipment	PhaseName		Storage Tank Construction 2
tblOffRoadEquipment	PhaseName		Storage Tank Construction 4
tblOffRoadEquipment	PhaseName		Flow Control Station 7
tblOffRoadEquipment	PhaseName		Finish Grading/Site Improvements
tblOffRoadEquipment	PhaseName		Pump Station Construction
tblOffRoadEquipment	PhaseName		Demoltion
tblOffRoadEquipment	PhaseName		Pipeline Installation 1
tblOffRoadEquipment	PhaseName		Excavation 2
tblOffRoadEquipment	PhaseName		Pipeline Installation 1
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	90.00
tblTripsAndVMT	HaulingTripNumber	0.00	12,565.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,600.00
tblTripsAndVMT	HaulingTripNumber	55.00	80.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,600.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	30,155.00
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	VendorTripNumber	0.00	10.00

tblTripsAndVMT	VendorTripNumber	36.00	0.00
tblTripsAndVMT	VendorTripNumber	36.00	0.00
tblTripsAndVMT	VendorTripNumber	36.00	0.00
tblTripsAndVMT	VendorTripNumber	36.00	4.00
tblTripsAndVMT	VendorTripNumber	36.00	0.00
tblTripsAndVMT	VendorTripNumber	36.00	0.00
tblTripsAndVMT	VendorTripNumber	36.00	0.00
tblTripsAndVMT	VendorTripNumber	36.00	0.00
tblTripsAndVMT	VendorTripNumber	36.00	0.00
tblTripsAndVMT	VendorTripNumber	36.00	0.00
tblTripsAndVMT	VendorTripNumber	36.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	36.00	0.00
tblTripsAndVMT	VendorTripNumber	36.00	0.00
tblTripsAndVMT	VendorTripNumber	36.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	30.00
tblTripsAndVMT	VendorTripNumber	36.00	20.00
tblTripsAndVMT	VendorTripNumber	36.00	0.00
tblTripsAndVMT	VendorVehicleClass		HDT_Mix
tblTripsAndVMT	WorkerTripNumber	13.00	50.00
tblTripsAndVMT	WorkerTripNumber	91.00	0.00
tblTripsAndVMT	WorkerTripNumber	91.00	0.00
tblTripsAndVMT	WorkerTripNumber	91.00	0.00
tblTripsAndVMT	WorkerTripNumber	91.00	10.00
tblTripsAndVMT	WorkerTripNumber	91.00	0.00
tblTripsAndVMT	WorkerTripNumber	91.00	0.00
tblTripsAndVMT	WorkerTripNumber	91.00	0.00
tblTripsAndVMT	WorkerTripNumber	91.00	0.00
tblTripsAndVMT	WorkerTripNumber	91.00	0.00
tblTripsAndVMT	WorkerTripNumber	91.00	0.00
tblTripsAndVMT	WorkerTripNumber	10.00	0.00

tblTripsAndVMT	WorkerTripNumber	91.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	30.00
tblTripsAndVMT	WorkerTripNumber	91.00	0.00
tblTripsAndVMT	WorkerTripNumber	91.00	0.00
tblTripsAndVMT	WorkerTripNumber	25.00	30.00
tblTripsAndVMT	WorkerTripNumber	91.00	30.00
tblTripsAndVMT	WorkerTripNumber	3.00	0.00
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblTripsAndVMT	WorkerTripNumber	33.00	30.00
tblTripsAndVMT	WorkerTripNumber	3.00	0.00
tblTripsAndVMT	WorkerTripNumber	91.00	100.00
tblTripsAndVMT	WorkerTripNumber	91.00	0.00
tblTripsAndVMT	WorkerVehicleClass		LD_Mix

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	7.0585	88.5189	70.5133	0.4133	15.3589	2.7469	16.7579	5.7764	2.6159	7.1056	0.0000	43,827.3385	43,827.3385	3.8116	0.0000	43,922.6282
2024	6.9440	66.0219	81.7087	0.1872	2.7569	2.4575	5.2143	0.7438	2.3593	3.1031	0.0000	18,441.0762	18,441.0762	2.5127	0.0000	18,503.8942
2025	4.6912	42.3110	54.0932	0.1193	8.3746	1.6612	10.0358	3.8565	1.5776	5.4342	0.0000	11,645.8017	11,645.8017	1.6364	0.0000	11,686.7117
2026	1.6855	17.3540	13.0488	0.0352	6.9901	0.6621	7.6522	3.4859	0.6096	4.0955	0.0000	3,449.8157	3,449.8157	0.9157	0.0000	3,472.7089
2027	2.3561	20.6942	23.8564	0.0462	0.4389	0.8546	1.2935	0.1085	0.8116	0.9176	0.0000	4,440.4109	4,440.4109	0.9075	0.0000	4,460.5291
2028	1.6651	16.9435	12.8495	0.0336	0.4017	0.6614	1.0631	0.1080	0.6089	0.7169	0.0000	3,281.5880	3,281.5880	0.9069	0.0000	3,304.2610
2029	1.6597	16.9350	12.8058	0.0335	0.4033	0.6613	1.0645	0.1084	0.6088	0.7171	0.0000	3,273.6413	3,273.6413	0.9064	0.0000	3,296.3002
Maximum	**7.0585**	**88.5189**	**81.7087**	**0.4133**	**15.3589**	**2.7469**	**16.7579**	**5.7764**	**2.6159**	**7.1056**	**0.0000**	**43,827.3385**	**43,827.3385**	**3.8116**	**0.0000**	**43,922.6282**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	7.0585	88.5189	70.5133	0.4133	11.3620	2.7469	12.7610	3.7222	2.6159	5.0514	0.0000	43,827.3385	43,827.3385	3.8116	0.0000	43,922.6282
2024	6.9440	66.0219	81.7087	0.1872	2.7569	2.4575	5.2143	0.7438	2.3593	3.1031	0.0000	18,441.0762	18,441.0762	2.5127	0.0000	18,503.8941
2025	4.6912	42.3110	54.0932	0.1193	4.3777	1.6612	6.0389	1.8024	1.5776	3.3800	0.0000	11,645.8017	11,645.8017	1.6364	0.0000	11,686.7117
2026	1.6855	17.3540	13.0488	0.0352	2.9931	0.6621	3.6553	1.4317	0.6096	2.0413	0.0000	3,449.8156	3,449.8156	0.9157	0.0000	3,472.7089
2027	2.3561	20.6942	23.8564	0.0462	0.4037	0.8546	1.2369	0.1085	0.8116	0.9090	0.0000	4,440.4109	4,440.4109	0.9075	0.0000	4,460.5291
2028	1.6651	16.9435	12.8495	0.0336	0.4017	0.6614	1.0631	0.1080	0.6089	0.7169	0.0000	3,281.5880	3,281.5880	0.9069	0.0000	3,304.2610
2029	1.6597	16.9350	12.8058	0.0335	0.4033	0.6613	1.0645	0.1084	0.6088	0.7171	0.0000	3,273.6413	3,273.6413	0.9064	0.0000	3,296.3002
Maximum	**7.0585**	**88.5189**	**81.7087**	**0.4133**	**11.3620**	**2.7469**	**12.7610**	**3.7222**	**2.6159**	**5.0514**	**0.0000**	**43,827.3385**	**43,827.3385**	**3.8116**	**0.0000**	**43,922.6282**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**34.63**	**0.00**	**27.96**	**43.44**	**0.00**	**27.94**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Excavation 1	Grading	1/1/2023	9/15/2023	5	185	Entire duration
2	Excavation 2	Grading	1/1/2023	1/26/2023	5	19	Equipment use 10% of phase
3	Excavation 3	Grading	1/1/2023	2/7/2023	5	27	Equipment use 15% of phase
4	Excavation 4	Grading	1/1/2023	3/17/2023	5	55	Equipment use 30% of phase
5	Excavation 5	Grading	1/1/2023	9/15/2023	5	185	For haul trips
6	Pipeline Installation 1	Trenching	6/1/2023	6/30/2025	5	543	Entire duration
7	Pipeline Installation 2	Trenching	6/1/2023	8/15/2023	5	54	Equipment use 10% of phase
8	Storage Tank Construction 1	Building Construction	10/1/2023	10/31/2025	5	545	Entire duration
9	Storage Tank Construction 2	Building Construction	10/1/2023	11/30/2023	5	44	First two months
10	Storage Tank Construction 3	Building Construction	10/1/2023	10/16/2023	5	11	Equipment use 2% of phase
11	Storage Tank Construction 4	Building Construction	10/1/2023	11/7/2023	5	27	Equipment use 5% of phase
12	Storage Tank Construction 5	Building Construction	10/1/2023	4/24/2025	5	409	Equipment use 75% of phase
13	Flow Control Station 1	Building Construction	10/1/2024	10/31/2025	5	284	Entire duration
14	Flow Control Station 2	Building Construction	10/1/2024	10/10/2024	5	8	8 days of phase
15	Flow Control Station 3	Building Construction	10/1/2024	10/18/2024	5	14	Two weeks or 5% of phase
16	Flow Control Station 4	Building Construction	10/1/2024	12/31/2024	5	66	Equipment use for 3 months
17	Flow Control Station 5	Building Construction	10/1/2024	11/29/2024	5	44	Equipment use for 2 months
18	Flow Control Station 6	Building Construction	10/1/2024	11/7/2024	5	28	Equipment use 10% of phase
19	Flow Control Station 7	Building Construction	10/1/2024	12/18/2024	5	57	Equipment use 20% of phase
20	Storage Tank Construction 6	Building Construction	9/1/2025	10/31/2025	5	45	Last two months
21	Finish Grading/Site Improvements	Grading	10/1/2025	1/15/2026	5	77	
22	Storage Tank Construction 7	Building Construction	10/1/2025	10/31/2025	5	23	Last month
23	Demoltion	Demolition	1/1/2027	6/30/2027	5	129	Demolition of existing tanks
24	Pump Station Construction	Building Construction	7/1/2027	7/20/2029	5	537	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Excavation 1	Excavators	1	8.00	158	0.38
Excavation 1	Generator Sets	1	8.00	84	0.74
Excavation 1	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Excavation 2	Cranes	1	6.00	231	0.29
Excavation 2	Rubber Tired Dozers	1	8.00	247	0.40
Excavation 2	Welders	1	8.00	46	0.45
Excavation 3	Bore/Drill Rigs	1	8.00	221	0.50
Excavation 4	Bore/Drill Rigs	1	8.00	221	0.50
Excavation 4	Cement and Mortar Mixers	1	8.00	9	0.56
Excavation 4	Pumps	2	8.00	84	0.74
Pipeline Installation 1	Air Compressors	1	8.00	78	0.48
Pipeline Installation 1	Cranes	1	6.00	231	0.29
Pipeline Installation 1	Excavators	1	8.00	158	0.38
Pipeline Installation 1	Generator Sets	1	8.00	84	0.74
Pipeline Installation 1	Other Construction Equipment	2	6.00	172	0.42
Pipeline Installation 1	Pumps	1	8.00	84	0.74
Pipeline Installation 1	Rough Terrain Forklifts	1	8.00	100	0.40
Pipeline Installation 1	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Pipeline Installation 1	Welders	1	8.00	46	0.45
Pipeline Installation 2	Bore/Drill Rigs	1	8.00	221	0.50
Storage Tank Construction 1	Cranes	1	6.00	231	0.29
Storage Tank Construction 1	Generator Sets	1	8.00	84	0.74
Storage Tank Construction 1	Pumps	3	8.00	84	0.74

Storage Tank Construction 2	Graders	1	8.00	187	0.41
Storage Tank Construction 2	Plate Compactors	1	4.00	8	0.43
Storage Tank Construction 2	Rollers	1	4.00	80	0.38
Storage Tank Construction 2	Rubber Tired Dozers	1	8.00	247	0.40
Storage Tank Construction 2	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Storage Tank Construction 3	Pressure Washers	1	4.00	13	0.30
Storage Tank Construction 4	Air Compressors	1	8.00	78	0.48
Storage Tank Construction 4	Other Construction Equipment	1	8.00	172	0.42
Storage Tank Construction 4	Skid Steer Loaders	1	8.00	65	0.37
Storage Tank Construction 4	Welders	1	8.00	46	0.45
Storage Tank Construction 5	Rough Terrain Forklifts	1	8.00	100	0.40
Flow Control Station 1	Cranes	1	8.00	231	0.29
Flow Control Station 2	Pumps	2	8.00	84	0.74
Flow Control Station 3	Pressure Washers	1	4.00	13	0.30
Flow Control Station 3	Welders	1	8.00	46	0.45
Flow Control Station 4	Rough Terrain Forklifts	1	8.00	100	0.40
Flow Control Station 5	Excavators	1	8.00	158	0.38
Flow Control Station 5	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Flow Control Station 6	Rollers	1	4.00	80	0.38
Flow Control Station 7	Generator Sets	1	8.00	84	0.74
Flow Control Station 7	Plate Compactors	1	4.00	8	0.43
Flow Control Station 7	Skid Steer Loaders	1	8.00	65	0.37
Flow Control Station 7	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Storage Tank Construction 6	Other Construction Equipment	1	8.00	172	0.42
Finish Grading/Site Improvements	Cranes	1	6.00	231	0.29
Finish Grading/Site Improvements	Graders	1	8.00	187	0.41
Finish Grading/Site Improvements	Pavers	1	4.00	130	0.42
Finish Grading/Site Improvements	Plate Compactors	1	4.00	8	0.43
Finish Grading/Site Improvements	Rollers	1	4.00	80	0.38
Finish Grading/Site Improvements	Rubber Tired Dozers	1	8.00	247	0.40
Finish Grading/Site Improvements	Skid Steer Loaders	1	8.00	65	0.37

Finish Grading/Site Improvements	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Storage Tank Construction 7	Cement and Mortar Mixers	1	6.00	9	0.56
Storage Tank Construction 7	Pumps	2	8.00	84	0.74
Demoltion	Air Compressors	1	8.00	78	0.48
Demoltion	Concrete/Industrial Saws	1	6.00	81	0.73
Demoltion	Cranes	1	6.00	231	0.29
Demoltion	Crushing/Proc. Equipment	1	6.00	85	0.78
Demoltion	Generator Sets	1	8.00	84	0.74
Demoltion	Rough Terrain Forklifts	1	8.00	100	0.40
Demoltion	Rubber Tired Dozers	1	8.00	247	0.40
Demoltion	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Pump Station Construction	Cranes	1	6.00	231	0.29
Pump Station Construction	Graders	1	8.00	187	0.41
Pump Station Construction	Pavers	1	4.00	130	0.42
Pump Station Construction	Plate Compactors	1	4.00	8	0.43
Pump Station Construction	Rollers	1	4.00	80	0.38
Pump Station Construction	Rubber Tired Dozers	1	8.00	247	0.40
Pump Station Construction	Skid Steer Loaders	1	8.00	65	0.37
Pump Station Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Excavation 1	5	50.00	10.00	12,565.00	14.70	6.90	90.00	LD_Mix	HDT_Mix	HHDT
Excavation 2	4	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Excavation 3	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Excavation 4	4	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Excavation 5	0	0.00	0.00	30,155.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Installation 1	13	30.00	30.00	3,600.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Installation 2	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 1	7	100.00	20.00	20.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 2	5	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 3	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 4	4	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 5	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 1	3	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 2	2	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 3	2	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 4	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 5	2	0.00	0.00	1,600.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 6	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 7	4	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 6	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finish Grading/Site Improvements	9	30.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 7	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 7	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demoltion	10	30.00	0.00	80.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pump Station Construction	9	30.00	10.00	40.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Excavation 1 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7973	7.3356	11.3898	0.0180		0.3557	0.3557		0.3375	0.3375		1,726.2932	1,726.2932	0.3842		1,735.8988
Total	**0.7973**	**7.3356**	**11.3898**	**0.0180**	**0.0000**	**0.3557**	**0.3557**	**0.0000**	**0.3375**	**0.3375**		**1,726.2932**	**1,726.2932**	**0.3842**		**1,735.8988**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1416	27.9109	12.6217	0.1968	5.3355	0.0814	5.4169	1.4617	0.0779	1.5396		21,379.5494	21,379.5494	1.2166		21,409.9649
Vendor	0.0195	0.6844	0.1927	2.4500e-003	0.0640	7.7000e-004	0.0648	0.0184	7.4000e-004	0.0192		261.8677	261.8677	0.0138		262.2136
Worker	0.1861	0.1119	1.6085	5.1600e-003	0.5589	3.8900e-003	0.5628	0.1482	3.5800e-003	0.1518		513.9651	513.9651	0.0121		514.2685
Total	**1.3472**	**28.7072**	**14.4229**	**0.2044**	**5.9584**	**0.0860**	**6.0444**	**1.6284**	**0.0822**	**1.7105**		**22,155.3822**	**22,155.3822**	**1.2426**		**22,186.4470**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7973	7.3356	11.3898	0.0180		0.3557	0.3557		0.3375	0.3375	0.0000	1,726.2932	1,726.2932	0.3842		1,735.8988
Total	**0.7973**	**7.3356**	**11.3898**	**0.0180**	**0.0000**	**0.3557**	**0.3557**	**0.0000**	**0.3375**	**0.3375**	**0.0000**	**1,726.2932**	**1,726.2932**	**0.3842**		**1,735.8988**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1416	27.9109	12.6217	0.1968	5.3355	0.0814	5.4169	1.4617	0.0779	1.5396		21,379.5494	21,379.5494	1.2166		21,409.9649
Vendor	0.0195	0.6844	0.1927	2.4500e-003	0.0640	7.7000e-004	0.0648	0.0184	7.4000e-004	0.0192		261.8677	261.8677	0.0138		262.2136
Worker	0.1861	0.1119	1.6085	5.1600e-003	0.5589	3.8900e-003	0.5628	0.1482	3.5800e-003	0.1518		513.9651	513.9651	0.0121		514.2685
Total	**1.3472**	**28.7072**	**14.4229**	**0.2044**	**5.9584**	**0.0860**	**6.0444**	**1.6284**	**0.0822**	**1.7105**		**22,155.3822**	**22,155.3822**	**1.2426**		**22,186.4470**

3.3 Excavation 2 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.2027	11.4093	6.1601	0.0154		0.4956	0.4956		0.4603	0.4603		1,453.5929	1,453.5929	0.4257		1,464.2342
Total	**1.2027**	**11.4093**	**6.1601**	**0.0154**	**6.5523**	**0.4956**	**7.0479**	**3.3675**	**0.4603**	**3.8278**		**1,453.5929**	**1,453.5929**	**0.4257**		**1,464.2342**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	1.2027	11.4093	6.1601	0.0154		0.4956	0.4956		0.4603	0.4603	0.0000	1,453.5929	1,453.5929	0.4257		1,464.2342
Total	**1.2027**	**11.4093**	**6.1601**	**0.0154**	**2.5554**	**0.4956**	**3.0510**	**1.3133**	**0.4603**	**1.7736**	**0.0000**	**1,453.5929**	**1,453.5929**	**0.4257**		**1,464.2342**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.4 Excavation 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2151	2.0396	2.0329	9.4600e-003		0.0660	0.0660		0.0608	0.0608		915.4033	915.4033	0.2961		922.8048
Total	**0.2151**	**2.0396**	**2.0329**	**9.4600e-003**	**0.0000**	**0.0660**	**0.0660**	**0.0000**	**0.0608**	**0.0608**		**915.4033**	**915.4033**	**0.2961**		**922.8048**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2151	2.0396	2.0329	9.4600e-003		0.0660	0.0660		0.0608	0.0608	0.0000	915.4033	915.4033	0.2961		922.8048
Total	**0.2151**	**2.0396**	**2.0329**	**9.4600e-003**	**0.0000**	**0.0660**	**0.0660**	**0.0000**	**0.0608**	**0.0608**	**0.0000**	**915.4033**	**915.4033**	**0.2961**		**922.8048**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.5 Excavation 4 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.9295	7.9134	9.7918	0.0233		0.3500	0.3500		0.3448	0.3448		2,211.9887	2,211.9887	0.3583		2,220.9465
Total	**0.9295**	**7.9134**	**9.7918**	**0.0233**	**0.0000**	**0.3500**	**0.3500**	**0.0000**	**0.3448**	**0.3448**		**2,211.9887**	**2,211.9887**	**0.3583**		**2,220.9465**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.9295	7.9134	9.7918	0.0233		0.3500	0.3500		0.3448	0.3448	0.0000	2,211.9887	2,211.9887	0.3583		2,220.9465
Total	**0.9295**	**7.9134**	**9.7918**	**0.0233**	**0.0000**	**0.3500**	**0.3500**	**0.0000**	**0.3448**	**0.3448**	**0.0000**	**2,211.9887**	**2,211.9887**	**0.3583**		**2,220.9465**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.6 Excavation 5 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**			**0.0000**			**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7429	24.6496	7.8620	0.1182	2.8482	0.0457	2.8939	0.7805	0.0437	0.8243		12,831.9723	12,831.9723	0.8152		12,852.3525
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.7429**	**24.6496**	**7.8620**	**0.1182**	**2.8482**	**0.0457**	**2.8939**	**0.7805**	**0.0437**	**0.8243**		**12,831.9723**	**12,831.9723**	**0.8152**		**12,852.3525**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**			**0.0000**			**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7429	24.6496	7.8620	0.1182	2.8482	0.0457	2.8939	0.7805	0.0437	0.8243		12,831.9723	12,831.9723	0.8152		12,852.3525
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.7429**	**24.6496**	**7.8620**	**0.1182**	**2.8482**	**0.0457**	**2.8939**	**0.7805**	**0.0437**	**0.8243**		**12,831.9723**	**12,831.9723**	**0.8152**		**12,852.3525**

3.7 Pipeline Installation 1 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5271	22.6640	28.8748	0.0481		1.0730	1.0730		1.0202	1.0202		4,582.3799	4,582.3799	0.9916		4,607.1689
Total	**2.5271**	**22.6640**	**28.8748**	**0.0481**		**1.0730**	**1.0730**		**1.0202**	**1.0202**		**4,582.3799**	**4,582.3799**	**0.9916**		**4,607.1689**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0302	1.0026	0.3198	4.8100e-003	0.3413	1.8600e-003	0.3432	0.0871	1.7800e-003	0.0889		521.9255	521.9255	0.0332		522.7544
Vendor	0.0584	2.0533	0.5782	7.3400e-003	0.1920	2.3100e-003	0.1943	0.0553	2.2100e-003	0.0575		785.6032	785.6032	0.0415		786.6407
Worker	0.1117	0.0671	0.9651	3.0900e-003	0.3353	2.3400e-003	0.3377	0.0889	2.1500e-003	0.0911		308.3791	308.3791	7.2800e-003		308.5611
Total	**0.2003**	**3.1230**	**1.8630**	**0.0152**	**0.8687**	**6.5100e-003**	**0.8752**	**0.2313**	**6.1400e-003**	**0.2374**		**1,615.9077**	**1,615.9077**	**0.0819**		**1,617.9562**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5271	22.6640	28.8748	0.0481		1.0730	1.0730		1.0202	1.0202	0.0000	4,582.3799	4,582.3799	0.9916		4,607.1689
Total	**2.5271**	**22.6640**	**28.8748**	**0.0481**		**1.0730**	**1.0730**		**1.0202**	**1.0202**	**0.0000**	**4,582.3799**	**4,582.3799**	**0.9916**		**4,607.1689**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0302	1.0026	0.3198	4.8100e-003	0.3413	1.8600e-003	0.3432	0.0871	1.7800e-003	0.0889		521.9255	521.9255	0.0332		522.7544
Vendor	0.0584	2.0533	0.5782	7.3400e-003	0.1920	2.3100e-003	0.1943	0.0553	2.2100e-003	0.0575		785.6032	785.6032	0.0415		786.6407
Worker	0.1117	0.0671	0.9651	3.0900e-003	0.3353	2.3400e-003	0.3377	0.0889	2.1500e-003	0.0911		308.3791	308.3791	7.2800e-003		308.5611
Total	**0.2003**	**3.1230**	**1.8630**	**0.0152**	**0.8687**	**6.5100e-003**	**0.8752**	**0.2313**	**6.1400e-003**	**0.2374**		**1,615.9077**	**1,615.9077**	**0.0819**		**1,617.9562**

3.7 Pipeline Installation 1 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3850	21.2232	28.8364	0.0481		0.9577	0.9577		0.9097	0.9097		4,582.8184	4,582.8184	0.9856		4,607.4591
Total	**2.3850**	**21.2232**	**28.8364**	**0.0481**		**0.9577**	**0.9577**		**0.9097**	**0.9097**		**4,582.8184**	**4,582.8184**	**0.9856**		**4,607.4591**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0305	0.9968	0.3249	4.7800e-003	0.2099	1.8500e-003	0.2117	0.0548	1.7700e-003	0.0566		520.0121	520.0121	0.0331		520.8401
Vendor	0.0572	2.0482	0.5615	7.3100e-003	0.1920	2.2800e-003	0.1943	0.0553	2.1800e-003	0.0575		782.7548	782.7548	0.0409		783.7763
Worker	0.1057	0.0612	0.9015	2.9900e-003	0.3353	2.3000e-003	0.3376	0.0889	2.1200e-003	0.0911		298.2627	298.2627	6.6800e-003		298.4296
Total	**0.1934**	**3.1061**	**1.7879**	**0.0151**	**0.7372**	**6.4300e-003**	**0.7436**	**0.1990**	**6.0700e-003**	**0.2051**		**1,601.0296**	**1,601.0296**	**0.0807**		**1,603.0459**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3850	21.2232	28.8364	0.0481		0.9577	0.9577		0.9097	0.9097	0.0000	4,582.8184	4,582.8184	0.9856		4,607.4591
Total	**2.3850**	**21.2232**	**28.8364**	**0.0481**		**0.9577**	**0.9577**		**0.9097**	**0.9097**	**0.0000**	**4,582.8184**	**4,582.8184**	**0.9856**		**4,607.4591**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0305	0.9968	0.3249	4.7800e-003	0.2099	1.8500e-003	0.2117	0.0548	1.7700e-003	0.0566		520.0121	520.0121	0.0331		520.8401
Vendor	0.0572	2.0482	0.5615	7.3100e-003	0.1920	2.2800e-003	0.1943	0.0553	2.1800e-003	0.0575		782.7548	782.7548	0.0409		783.7763
Worker	0.1057	0.0612	0.9015	2.9900e-003	0.3353	2.3000e-003	0.3376	0.0889	2.1200e-003	0.0911		298.2627	298.2627	6.6800e-003		298.4296
Total	**0.1934**	**3.1061**	**1.7879**	**0.0151**	**0.7372**	**6.4300e-003**	**0.7436**	**0.1990**	**6.0700e-003**	**0.2051**		**1,601.0296**	**1,601.0296**	**0.0807**		**1,603.0459**

3.7 Pipeline Installation 1 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2117	19.3854	28.7396	0.0481		0.8252	0.8252		0.7836	0.7836		4,584.0351	4,584.0351	0.9795		4,608.5230
Total	**2.2117**	**19.3854**	**28.7396**	**0.0481**		**0.8252**	**0.8252**		**0.7836**	**0.7836**		**4,584.0351**	**4,584.0351**	**0.9795**		**4,608.5230**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0303	0.9809	0.3274	4.7500e-003	0.3972	1.8200e-003	0.3990	0.1008	1.7400e-003	0.1025		517.0547	517.0547	0.0330		517.8807
Vendor	0.0557	2.0304	0.5467	7.2700e-003	0.1920	2.2500e-003	0.1943	0.0553	2.1500e-003	0.0574		778.3054	778.3054	0.0402		779.3106
Worker	0.1004	0.0560	0.8379	2.8700e-003	0.3353	2.2600e-003	0.3376	0.0889	2.0800e-003	0.0910		286.5211	286.5211	6.0800e-003		286.6732
Total	**0.1864**	**3.0672**	**1.7120**	**0.0149**	**0.9245**	**6.3300e-003**	**0.9308**	**0.2450**	**5.9700e-003**	**0.2510**		**1,581.8812**	**1,581.8812**	**0.0793**		**1,583.8646**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2117	19.3854	28.7396	0.0481		0.8252	0.8252		0.7836	0.7836	0.0000	4,584.0351	4,584.0351	0.9795		4,608.5230
Total	**2.2117**	**19.3854**	**28.7396**	**0.0481**		**0.8252**	**0.8252**		**0.7836**	**0.7836**	**0.0000**	**4,584.0351**	**4,584.0351**	**0.9795**		**4,608.5230**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0303	0.9809	0.3274	4.7500e-003	0.3972	1.8200e-003	0.3990	0.1008	1.7400e-003	0.1025		517.0547	517.0547	0.0330		517.8807
Vendor	0.0557	2.0304	0.5467	7.2700e-003	0.1920	2.2500e-003	0.1943	0.0553	2.1500e-003	0.0574		778.3054	778.3054	0.0402		779.3106
Worker	0.1004	0.0560	0.8379	2.8700e-003	0.3353	2.2600e-003	0.3376	0.0889	2.0800e-003	0.0910		286.5211	286.5211	6.0800e-003		286.6732
Total	**0.1864**	**3.0672**	**1.7120**	**0.0149**	**0.9245**	**6.3300e-003**	**0.9308**	**0.2450**	**5.9700e-003**	**0.2510**		**1,581.8812**	**1,581.8812**	**0.0793**		**1,583.8646**

3.8 Pipeline Installation 2 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2151	2.0396	2.0329	9.4600e-003		0.0660	0.0660		0.0608	0.0608		915.4033	915.4033	0.2961		922.8048
Total	**0.2151**	**2.0396**	**2.0329**	**9.4600e-003**		**0.0660**	**0.0660**		**0.0608**	**0.0608**		**915.4033**	**915.4033**	**0.2961**		**922.8048**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2151	2.0396	2.0329	9.4600e-003		0.0660	0.0660		0.0608	0.0608	0.0000	915.4033	915.4033	0.2961		922.8048
Total	**0.2151**	**2.0396**	**2.0329**	**9.4600e-003**		**0.0660**	**0.0660**		**0.0608**	**0.0608**	**0.0000**	**915.4033**	**915.4033**	**0.2961**		**922.8048**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.9 Storage Tank Construction 1 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5528	13.8358	16.2210	0.0306		0.6523	0.6523		0.6428	0.6428		2,911.2527	2,911.2527	0.2485		2,917.4645
Total	**1.5528**	**13.8358**	**16.2210**	**0.0306**		**0.6523**	**0.6523**		**0.6428**	**0.6428**		**2,911.2527**	**2,911.2527**	**0.2485**		**2,917.4645**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7000e-004	5.5500e-003	1.7700e-003	3.0000e-005	4.2200e-003	1.0000e-005	4.2300e-003	1.0600e-003	1.0000e-005	1.0600e-003		2.8890	2.8890	1.8000e-004		2.8935
Vendor	0.0389	1.3689	0.3854	4.9000e-003	0.1280	1.5400e-003	0.1295	0.0369	1.4700e-003	0.0383		523.7354	523.7354	0.0277		524.4272
Worker	0.3723	0.2238	3.2170	0.0103	1.1178	7.7800e-003	1.1256	0.2964	7.1700e-003	0.3036		1,027.9302	1,027.9302	0.0243		1,028.5370
Total	**0.4114**	**1.5982**	**3.6042**	**0.0152**	**1.2500**	**9.3300e-003**	**1.2593**	**0.3344**	**8.6500e-003**	**0.3430**		**1,554.5546**	**1,554.5546**	**0.0521**		**1,555.8577**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5528	13.8358	16.2210	0.0306		0.6523	0.6523		0.6428	0.6428	0.0000	2,911.2527	2,911.2527	0.2485		2,917.4645
Total	**1.5528**	**13.8358**	**16.2210**	**0.0306**		**0.6523**	**0.6523**		**0.6428**	**0.6428**	**0.0000**	**2,911.2527**	**2,911.2527**	**0.2485**		**2,917.4645**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7000e-004	5.5500e-003	1.7700e-003	3.0000e-005	4.2200e-003	1.0000e-005	4.2300e-003	1.0600e-003	1.0000e-005	1.0600e-003		2.8890	2.8890	1.8000e-004		2.8935
Vendor	0.0389	1.3689	0.3854	4.9000e-003	0.1280	1.5400e-003	0.1295	0.0369	1.4700e-003	0.0383		523.7354	523.7354	0.0277		524.4272
Worker	0.3723	0.2238	3.2170	0.0103	1.1178	7.7800e-003	1.1256	0.2964	7.1700e-003	0.3036		1,027.9302	1,027.9302	0.0243		1,028.5370
Total	**0.4114**	**1.5982**	**3.6042**	**0.0152**	**1.2500**	**9.3300e-003**	**1.2593**	**0.3344**	**8.6500e-003**	**0.3430**		**1,554.5546**	**1,554.5546**	**0.0521**		**1,555.8577**

3.9 Storage Tank Construction 1 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4515	12.9084	16.1543	0.0306		0.5720	0.5720		0.5633	0.5633		2,911.2438	2,911.2438	0.2430		2,917.3184
Total	**1.4515**	**12.9084**	**16.1543**	**0.0306**		**0.5720**	**0.5720**		**0.5633**	**0.5633**		**2,911.2438**	**2,911.2438**	**0.2430**		**2,917.3184**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7000e-004	5.5200e-003	1.8000e-003	3.0000e-005	1.1700e-003	1.0000e-005	1.1800e-003	3.0000e-004	1.0000e-005	3.1000e-004		2.8784	2.8784	1.8000e-004		2.8829
Vendor	0.0381	1.3655	0.3743	4.8700e-003	0.1280	1.5200e-003	0.1295	0.0369	1.4600e-003	0.0383		521.8366	521.8366	0.0272		522.5175
Worker	0.3523	0.2039	3.0050	9.9700e-003	1.1178	7.6800e-003	1.1255	0.2964	7.0700e-003	0.3035		994.2089	994.2089	0.0223		994.7652
Total	**0.3906**	**1.5749**	**3.3812**	**0.0149**	**1.2469**	**9.2100e-003**	**1.2562**	**0.3336**	**8.5400e-003**	**0.3421**		**1,518.9239**	**1,518.9239**	**0.0497**		**1,520.1657**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4515	12.9084	16.1543	0.0306		0.5720	0.5720		0.5633	0.5633	0.0000	2,911.2438	2,911.2438	0.2430		2,917.3184
Total	**1.4515**	**12.9084**	**16.1543**	**0.0306**		**0.5720**	**0.5720**		**0.5633**	**0.5633**	**0.0000**	**2,911.2438**	**2,911.2438**	**0.2430**		**2,917.3184**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7000e-004	5.5200e-003	1.8000e-003	3.0000e-005	1.1700e-003	1.0000e-005	1.1800e-003	3.0000e-004	1.0000e-005	3.1000e-004		2.8784	2.8784	1.8000e-004		2.8829
Vendor	0.0381	1.3655	0.3743	4.8700e-003	0.1280	1.5200e-003	0.1295	0.0369	1.4600e-003	0.0383		521.8366	521.8366	0.0272		522.5175
Worker	0.3523	0.2039	3.0050	9.9700e-003	1.1178	7.6800e-003	1.1255	0.2964	7.0700e-003	0.3035		994.2089	994.2089	0.0223		994.7652
Total	**0.3906**	**1.5749**	**3.3812**	**0.0149**	**1.2469**	**9.2100e-003**	**1.2562**	**0.3336**	**8.5400e-003**	**0.3421**		**1,518.9239**	**1,518.9239**	**0.0497**		**1,520.1657**

3.9 Storage Tank Construction 1 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3594	12.0498	16.1081	0.0306		0.4990	0.4990		0.4909	0.4909		2,911.2580	2,911.2580	0.2342		2,917.1135
Total	**1.3594**	**12.0498**	**16.1081**	**0.0306**		**0.4990**	**0.4990**		**0.4909**	**0.4909**		**2,911.2580**	**2,911.2580**	**0.2342**		**2,917.1135**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7000e-004	5.4300e-003	1.8100e-003	3.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.5000e-004	1.0000e-005	3.6000e-004		2.8620	2.8620	1.8000e-004		2.8666
Vendor	0.0372	1.3536	0.3645	4.8400e-003	0.1280	1.5000e-003	0.1295	0.0369	1.4300e-003	0.0383		518.8703	518.8703	0.0268		519.5404
Worker	0.3346	0.1865	2.7931	9.5800e-003	1.1178	7.5300e-003	1.1253	0.2964	6.9300e-003	0.3034		955.0704	955.0704	0.0203		955.5775
Total	**0.3720**	**1.5455**	**3.1594**	**0.0145**	**1.2471**	**9.0400e-003**	**1.2562**	**0.3336**	**8.3700e-003**	**0.3420**		**1,476.8026**	**1,476.8026**	**0.0473**		**1,477.9844**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3594	12.0498	16.1081	0.0306		0.4990	0.4990		0.4909	0.4909	0.0000	2,911.2580	2,911.2580	0.2342		2,917.1135
Total	**1.3594**	**12.0498**	**16.1081**	**0.0306**		**0.4990**	**0.4990**		**0.4909**	**0.4909**	**0.0000**	**2,911.2580**	**2,911.2580**	**0.2342**		**2,917.1135**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7000e-004	5.4300e-003	1.8100e-003	3.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.5000e-004	1.0000e-005	3.6000e-004		2.8620	2.8620	1.8000e-004		2.8666
Vendor	0.0372	1.3536	0.3645	4.8400e-003	0.1280	1.5000e-003	0.1295	0.0369	1.4300e-003	0.0383		518.8703	518.8703	0.0268		519.5404
Worker	0.3346	0.1865	2.7931	9.5800e-003	1.1178	7.5300e-003	1.1253	0.2964	6.9300e-003	0.3034		955.0704	955.0704	0.0203		955.5775
Total	**0.3720**	**1.5455**	**3.1594**	**0.0145**	**1.2471**	**9.0400e-003**	**1.2562**	**0.3336**	**8.3700e-003**	**0.3420**		**1,476.8026**	**1,476.8026**	**0.0473**		**1,477.9844**

3.10 Storage Tank Construction 2 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3164	14.2466	8.0616	0.0198		0.5967	0.5967		0.5493	0.5493		1,913.7259	1,913.7259	0.6152		1,929.1047
Total	**1.3164**	**14.2466**	**8.0616**	**0.0198**		**0.5967**	**0.5967**		**0.5493**	**0.5493**		**1,913.7259**	**1,913.7259**	**0.6152**		**1,929.1047**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3164	14.2466	8.0616	0.0198		0.5967	0.5967		0.5493	0.5493	0.0000	1,913.7259	1,913.7259	0.6152		1,929.1047
Total	**1.3164**	**14.2466**	**8.0616**	**0.0198**		**0.5967**	**0.5967**		**0.5493**	**0.5493**	**0.0000**	**1,913.7259**	**1,913.7259**	**0.6152**		**1,929.1047**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.11 Storage Tank Construction 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0213	0.1494	0.1207	2.8000e-004		6.4000e-003	6.4000e-003		6.4000e-003	6.4000e-003		19.5450	19.5450	1.8900e-003		19.5923
Total	**0.0213**	**0.1494**	**0.1207**	**2.8000e-004**		**6.4000e-003**	**6.4000e-003**		**6.4000e-003**	**6.4000e-003**		**19.5450**	**19.5450**	**1.8900e-003**		**19.5923**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0213	0.1494	0.1207	2.8000e-004		6.4000e-003	6.4000e-003		6.4000e-003	6.4000e-003	0.0000	19.5450	19.5450	1.8900e-003		19.5923
Total	**0.0213**	**0.1494**	**0.1207**	**2.8000e-004**		**6.4000e-003**	**6.4000e-003**		**6.4000e-003**	**6.4000e-003**	**0.0000**	**19.5450**	**19.5450**	**1.8900e-003**		**19.5923**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.12 Storage Tank Construction 4 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9235	7.4603	9.4808	0.0148		0.3578	0.3578		0.3411	0.3411		1,381.4897	1,381.4897	0.3034		1,389.0751
Total	**0.9235**	**7.4603**	**9.4808**	**0.0148**		**0.3578**	**0.3578**		**0.3411**	**0.3411**		**1,381.4897**	**1,381.4897**	**0.3034**		**1,389.0751**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9235	7.4603	9.4808	0.0148		0.3578	0.3578		0.3411	0.3411	0.0000	1,381.4897	1,381.4897	0.3034		1,389.0751
Total	**0.9235**	**7.4603**	**9.4808**	**0.0148**		**0.3578**	**0.3578**		**0.3411**	**0.3411**	**0.0000**	**1,381.4897**	**1,381.4897**	**0.3034**		**1,389.0751**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.13 Storage Tank Construction 5 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1058	1.3994	2.2873	3.4500e-003		0.0450	0.0450		0.0414	0.0414		333.8035	333.8035	0.1080		336.5024
Total	**0.1058**	**1.3994**	**2.2873**	**3.4500e-003**		**0.0450**	**0.0450**		**0.0414**	**0.0414**		**333.8035**	**333.8035**	**0.1080**		**336.5024**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1058	1.3994	2.2873	3.4500e-003		0.0450	0.0450		0.0414	0.0414	0.0000	333.8035	333.8035	0.1080		336.5024
Total	**0.1058**	**1.3994**	**2.2873**	**3.4500e-003**		**0.0450**	**0.0450**		**0.0414**	**0.0414**	**0.0000**	**333.8035**	**333.8035**	**0.1080**		**336.5024**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.13 Storage Tank Construction 5 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1024	1.3502	2.2891	3.4500e-003		0.0411	0.0411		0.0378	0.0378		333.7362	333.7362	0.1079		336.4346
Total	**0.1024**	**1.3502**	**2.2891**	**3.4500e-003**		**0.0411**	**0.0411**		**0.0378**	**0.0378**		**333.7362**	**333.7362**	**0.1079**		**336.4346**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1024	1.3502	2.2891	3.4500e-003		0.0411	0.0411		0.0378	0.0378	0.0000	333.7362	333.7362	0.1079		336.4346
Total	**0.1024**	**1.3502**	**2.2891**	**3.4500e-003**		**0.0411**	**0.0411**		**0.0378**	**0.0378**	**0.0000**	**333.7362**	**333.7362**	**0.1079**		**336.4346**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.13 Storage Tank Construction 5 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0970	1.2843	2.2856	3.4500e-003		0.0361	0.0361		0.0332	0.0332		333.7175	333.7175	0.1079		336.4158
Total	**0.0970**	**1.2843**	**2.2856**	**3.4500e-003**		**0.0361**	**0.0361**		**0.0332**	**0.0332**		**333.7175**	**333.7175**	**0.1079**		**336.4158**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0970	1.2843	2.2856	3.4500e-003		0.0361	0.0361		0.0332	0.0332	0.0000	333.7175	333.7175	0.1079		336.4158
Total	**0.0970**	**1.2843**	**2.2856**	**3.4500e-003**		**0.0361**	**0.0361**		**0.0332**	**0.0332**	**0.0000**	**333.7175**	**333.7175**	**0.1079**		**336.4158**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.14 Flow Control Station 1 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3318	3.5043	1.7747	5.7700e-003		0.1458	0.1458		0.1341	0.1341		558.8073	558.8073	0.1807		563.3256
Total	**0.3318**	**3.5043**	**1.7747**	**5.7700e-003**		**0.1458**	**0.1458**		**0.1341**	**0.1341**		**558.8073**	**558.8073**	**0.1807**		**563.3256**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.6200e-003	0.2731	0.0749	9.7000e-004	0.0256	3.0000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		104.3673	104.3673	5.4500e-003		104.5035
Worker	0.0352	0.0204	0.3005	1.0000e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304		99.4209	99.4209	2.2300e-003		99.4765
Total	**0.0429**	**0.2935**	**0.3754**	**1.9700e-003**	**0.1374**	**1.0700e-003**	**0.1384**	**0.0370**	**1.0000e-003**	**0.0380**		**203.7882**	**203.7882**	**7.6800e-003**		**203.9800**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3318	3.5043	1.7747	5.7700e-003		0.1458	0.1458		0.1341	0.1341	0.0000	558.8073	558.8073	0.1807		563.3256
Total	**0.3318**	**3.5043**	**1.7747**	**5.7700e-003**		**0.1458**	**0.1458**		**0.1341**	**0.1341**	**0.0000**	**558.8073**	**558.8073**	**0.1807**		**563.3256**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.6200e-003	0.2731	0.0749	9.7000e-004	0.0256	3.0000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		104.3673	104.3673	5.4500e-003		104.5035
Worker	0.0352	0.0204	0.3005	1.0000e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304		99.4209	99.4209	2.2300e-003		99.4765
Total	**0.0429**	**0.2935**	**0.3754**	**1.9700e-003**	**0.1374**	**1.0700e-003**	**0.1384**	**0.0370**	**1.0000e-003**	**0.0380**		**203.7882**	**203.7882**	**7.6800e-003**		**203.9800**

3.14 Flow Control Station 1 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3128	3.1679	1.7365	5.7700e-003		0.1347	0.1347		0.1239	0.1239		558.8262	558.8262	0.1807		563.3446
Total	**0.3128**	**3.1679**	**1.7365**	**5.7700e-003**		**0.1347**	**0.1347**		**0.1239**	**0.1239**		**558.8262**	**558.8262**	**0.1807**		**563.3446**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.4300e-003	0.2707	0.0729	9.7000e-004	0.0256	3.0000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		103.7741	103.7741	5.3600e-003		103.9081
Worker	0.0335	0.0187	0.2793	9.6000e-004	0.1118	7.5000e-004	0.1125	0.0296	6.9000e-004	0.0303		95.5070	95.5070	2.0300e-003		95.5578
Total	**0.0409**	**0.2894**	**0.3522**	**1.9300e-003**	**0.1374**	**1.0500e-003**	**0.1384**	**0.0370**	**9.8000e-004**	**0.0380**		**199.2811**	**199.2811**	**7.3900e-003**		**199.4658**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3128	3.1679	1.7365	5.7700e-003		0.1347	0.1347		0.1239	0.1239	0.0000	558.8262	558.8262	0.1807		563.3446
Total	**0.3128**	**3.1679**	**1.7365**	**5.7700e-003**		**0.1347**	**0.1347**		**0.1239**	**0.1239**	**0.0000**	**558.8262**	**558.8262**	**0.1807**		**563.3446**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.4300e-003	0.2707	0.0729	9.7000e-004	0.0256	3.0000e-004	0.0259	7.3700e-003	2.9000e-004	7.6600e-003		103.7741	103.7741	5.3600e-003		103.9081
Worker	0.0335	0.0187	0.2793	9.6000e-004	0.1118	7.5000e-004	0.1125	0.0296	6.9000e-004	0.0303		95.5070	95.5070	2.0300e-003		95.5578
Total	**0.0409**	**0.2894**	**0.3522**	**1.9300e-003**	**0.1374**	**1.0500e-003**	**0.1384**	**0.0370**	**9.8000e-004**	**0.0380**		**199.2811**	**199.2811**	**7.3900e-003**		**199.4658**

3.15 Flow Control Station 2 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6117	5.1571	7.4396	0.0132		0.2346	0.2346		0.2346	0.2346		1,246.0691	1,246.0691	0.0548		1,247.4395
Total	**0.6117**	**5.1571**	**7.4396**	**0.0132**		**0.2346**	**0.2346**		**0.2346**	**0.2346**		**1,246.0691**	**1,246.0691**	**0.0548**		**1,247.4395**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6117	5.1571	7.4396	0.0132		0.2346	0.2346		0.2346	0.2346	0.0000	1,246.0691	1,246.0691	0.0548		1,247.4395
Total	**0.6117**	**5.1571**	**7.4396**	**0.0132**		**0.2346**	**0.2346**		**0.2346**	**0.2346**	**0.0000**	**1,246.0691**	**1,246.0691**	**0.0548**		**1,247.4395**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.16 Flow Control Station 3 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2569	1.5288	1.7840	2.8300e-003		0.0537	0.0537		0.0537	0.0537		227.0227	227.0227	0.0231		227.5994
Total	**0.2569**	**1.5288**	**1.7840**	**2.8300e-003**		**0.0537**	**0.0537**		**0.0537**	**0.0537**		**227.0227**	**227.0227**	**0.0231**		**227.5994**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2569	1.5288	1.7840	2.8300e-003		0.0537	0.0537		0.0537	0.0537	0.0000	227.0227	227.0227	0.0231		227.5994
Total	**0.2569**	**1.5288**	**1.7840**	**2.8300e-003**		**0.0537**	**0.0537**		**0.0537**	**0.0537**	**0.0000**	**227.0227**	**227.0227**	**0.0231**		**227.5994**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.17 Flow Control Station 4 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1024	1.3502	2.2891	3.4500e-003		0.0411	0.0411		0.0378	0.0378		333.7362	333.7362	0.1079		336.4346
Total	**0.1024**	**1.3502**	**2.2891**	**3.4500e-003**		**0.0411**	**0.0411**		**0.0378**	**0.0378**		**333.7362**	**333.7362**	**0.1079**		**336.4346**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1024	1.3502	2.2891	3.4500e-003		0.0411	0.0411		0.0378	0.0378	0.0000	333.7362	333.7362	0.1079		336.4346
Total	**0.1024**	**1.3502**	**2.2891**	**3.4500e-003**		**0.0411**	**0.0411**		**0.0378**	**0.0378**	**0.0000**	**333.7362**	**333.7362**	**0.1079**		**336.4346**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.18 Flow Control Station 5 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3242	2.8511	5.5006	8.2900e-003		0.1356	0.1356		0.1247	0.1247		802.0321	802.0321	0.2594		808.5170
Total	**0.3242**	**2.8511**	**5.5006**	**8.2900e-003**		**0.1356**	**0.1356**		**0.1247**	**0.1247**		**802.0321**	**802.0321**	**0.2594**		**808.5170**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1672	5.4670	1.7822	0.0262	0.6354	0.0101	0.6455	0.1741	9.6800e-003	0.1838		2,852.1876	2,852.1876	0.1817		2,856.7289
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1672**	**5.4670**	**1.7822**	**0.0262**	**0.6354**	**0.0101**	**0.6455**	**0.1741**	**9.6800e-003**	**0.1838**		**2,852.1876**	**2,852.1876**	**0.1817**		**2,856.7289**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3242	2.8511	5.5006	8.2900e-003		0.1356	0.1356		0.1247	0.1247	0.0000	802.0321	802.0321	0.2594		808.5169
Total	**0.3242**	**2.8511**	**5.5006**	**8.2900e-003**		**0.1356**	**0.1356**		**0.1247**	**0.1247**	**0.0000**	**802.0321**	**802.0321**	**0.2594**		**808.5169**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1672	5.4670	1.7822	0.0262	0.6354	0.0101	0.6455	0.1741	9.6800e-003	0.1838		2,852.1876	2,852.1876	0.1817		2,856.7289
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1672**	**5.4670**	**1.7822**	**0.0262**	**0.6354**	**0.0101**	**0.6455**	**0.1741**	**9.6800e-003**	**0.1838**		**2,852.1876**	**2,852.1876**	**0.1817**		**2,856.7289**

3.19 Flow Control Station 6 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0729	0.7622	0.9250	1.3100e-003		0.0403	0.0403		0.0371	0.0371		127.0729	127.0729	0.0411		128.1003
Total	**0.0729**	**0.7622**	**0.9250**	**1.3100e-003**		**0.0403**	**0.0403**		**0.0371**	**0.0371**		**127.0729**	**127.0729**	**0.0411**		**128.1003**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0729	0.7622	0.9250	1.3100e-003		0.0403	0.0403		0.0371	0.0371	0.0000	127.0729	127.0729	0.0411		128.1003
Total	**0.0729**	**0.7622**	**0.9250**	**1.3100e-003**		**0.0403**	**0.0403**		**0.0371**	**0.0371**	**0.0000**	**127.0729**	**127.0729**	**0.0411**		**128.1003**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.20 Flow Control Station 7 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5113	4.9449	7.3892	0.0120		0.2086	0.2086		0.2012	0.2012		1,142.6082	1,142.6082	0.1895		1,147.3450
Total	**0.5113**	**4.9449**	**7.3892**	**0.0120**		**0.2086**	**0.2086**		**0.2012**	**0.2012**		**1,142.6082**	**1,142.6082**	**0.1895**		**1,147.3450**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5113	4.9449	7.3892	0.0120		0.2086	0.2086		0.2012	0.2012	0.0000	1,142.6082	1,142.6082	0.1895		1,147.3450
Total	**0.5113**	**4.9449**	**7.3892**	**0.0120**		**0.2086**	**0.2086**		**0.2012**	**0.2012**	**0.0000**	**1,142.6082**	**1,142.6082**	**0.1895**		**1,147.3450**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.21 Storage Tank Construction 6 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2991	2.7615	3.9962	6.1800e-003		0.1428	0.1428		0.1314	0.1314		598.6249	598.6249	0.1936		603.4651
Total	**0.2991**	**2.7615**	**3.9962**	**6.1800e-003**		**0.1428**	**0.1428**		**0.1314**	**0.1314**		**598.6249**	**598.6249**	**0.1936**		**603.4651**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2991	2.7615	3.9962	6.1800e-003		0.1428	0.1428		0.1314	0.1314	0.0000	598.6249	598.6249	0.1936		603.4651
Total	**0.2991**	**2.7615**	**3.9962**	**6.1800e-003**		**0.1428**	**0.1428**		**0.1314**	**0.1314**	**0.0000**	**598.6249**	**598.6249**	**0.1936**		**603.4651**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.22 Finish Grading/Site Improvements - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064		2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**	**6.5523**	**0.6588**	**7.2111**	**3.3675**	**0.6064**	**3.9739**		**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0297	1.0829	0.2916	3.8800e-003	0.1024	1.2000e-003	0.1036	0.0295	1.1500e-003	0.0306		415.0962	415.0962	0.0214		415.6323
Worker	0.1004	0.0560	0.8379	2.8700e-003	0.3353	2.2600e-003	0.3376	0.0889	2.0800e-003	0.0910		286.5211	286.5211	6.0800e-003		286.6732
Total	**0.1301**	**1.1388**	**1.1295**	**6.7500e-003**	**0.4377**	**3.4600e-003**	**0.4412**	**0.1184**	**3.2300e-003**	**0.1216**		**701.6173**	**701.6173**	**0.0275**		**702.3056**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064	0.0000	2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**	**2.5554**	**0.6588**	**3.2142**	**1.3133**	**0.6064**	**1.9198**	**0.0000**	**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0297	1.0829	0.2916	3.8800e-003	0.1024	1.2000e-003	0.1036	0.0295	1.1500e-003	0.0306		415.0962	415.0962	0.0214		415.6323
Worker	0.1004	0.0560	0.8379	2.8700e-003	0.3353	2.2600e-003	0.3376	0.0889	2.0800e-003	0.0910		286.5211	286.5211	6.0800e-003		286.6732
Total	**0.1301**	**1.1388**	**1.1295**	**6.7500e-003**	**0.4377**	**3.4600e-003**	**0.4412**	**0.1184**	**3.2300e-003**	**0.1216**		**701.6173**	**701.6173**	**0.0275**		**702.3056**

3.22 Finish Grading/Site Improvements - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064		2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**	**6.5523**	**0.6588**	**7.2111**	**3.3675**	**0.6064**	**3.9739**		**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0290	1.0728	0.2855	3.8500e-003	0.1024	1.1800e-003	0.1036	0.0295	1.1300e-003	0.0306		412.8226	412.8226	0.0211		413.3502
Worker	0.0958	0.0515	0.7838	2.7700e-003	0.3353	2.1900e-003	0.3375	0.0889	2.0100e-003	0.0909		276.3755	276.3755	5.5800e-003		276.5149
Total	**0.1248**	**1.1243**	**1.0693**	**6.6200e-003**	**0.4377**	**3.3700e-003**	**0.4411**	**0.1184**	**3.1400e-003**	**0.1216**		**689.1982**	**689.1982**	**0.0267**		**689.8651**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064	0.0000	2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**	**2.5554**	**0.6588**	**3.2142**	**1.3133**	**0.6064**	**1.9198**	**0.0000**	**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0290	1.0728	0.2855	3.8500e-003	0.1024	1.1800e-003	0.1036	0.0295	1.1300e-003	0.0306		412.8226	412.8226	0.0211		413.3502
Worker	0.0958	0.0515	0.7838	2.7700e-003	0.3353	2.1900e-003	0.3375	0.0889	2.0100e-003	0.0909		276.3755	276.3755	5.5800e-003		276.5149
Total	**0.1248**	**1.1243**	**1.0693**	**6.6200e-003**	**0.4377**	**3.3700e-003**	**0.4411**	**0.1184**	**3.1400e-003**	**0.1216**		**689.1982**	**689.1982**	**0.0267**		**689.8651**

3.23 Storage Tank Construction 7 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6163	5.1284	7.6621	0.0137		0.2125	0.2125		0.2125	0.2125		1,283.9564	1,283.9564	0.0544		1,285.3155
Total	**0.6163**	**5.1284**	**7.6621**	**0.0137**		**0.2125**	**0.2125**		**0.2125**	**0.2125**		**1,283.9564**	**1,283.9564**	**0.0544**		**1,285.3155**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6163	5.1284	7.6621	0.0137		0.2125	0.2125		0.2125	0.2125	0.0000	1,283.9564	1,283.9564	0.0544		1,285.3155
Total	**0.6163**	**5.1284**	**7.6621**	**0.0137**		**0.2125**	**0.2125**		**0.2125**	**0.2125**	**0.0000**	**1,283.9564**	**1,283.9564**	**0.0544**		**1,285.3155**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.24 Demoltion - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0927	0.0000	0.0927	0.0140	0.0000	0.0140			0.0000			0.0000
Off-Road	2.2620	20.5579	23.0899	0.0431		0.8524	0.8524		0.8096	0.8096		4,125.1045	4,125.1045	0.7966		4,145.0183
Total	**2.2620**	**20.5579**	**23.0899**	**0.0431**	**0.0927**	**0.8524**	**0.9451**	**0.0140**	**0.8096**	**0.8236**		**4,125.1045**	**4,125.1045**	**0.7966**		**4,145.0183**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.7900e-003	0.0888	0.0310	4.4000e-004	0.0108	1.6000e-004	0.0110	2.9700e-003	1.6000e-004	3.1300e-003		47.8686	47.8686	3.0600e-003		47.9451
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0913	0.0475	0.7355	2.6800e-003	0.3353	2.0700e-003	0.3374	0.0889	1.9000e-003	0.0908		267.4377	267.4377	5.1200e-003		267.5657
Total	**0.0941**	**0.1363**	**0.7665**	**3.1200e-003**	**0.3462**	**2.2300e-003**	**0.3484**	**0.0919**	**2.0600e-003**	**0.0940**		**315.3064**	**315.3064**	**8.1800e-003**		**315.5108**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0362	0.0000	0.0362	5.4800e-003	0.0000	5.4800e-003			0.0000			0.0000
Off-Road	2.2620	20.5579	23.0899	0.0431		0.8524	0.8524		0.8096	0.8096	0.0000	4,125.1045	4,125.1045	0.7966		4,145.0183
Total	**2.2620**	**20.5579**	**23.0899**	**0.0431**	**0.0362**	**0.8524**	**0.8885**	**5.4800e-003**	**0.8096**	**0.8150**	**0.0000**	**4,125.1045**	**4,125.1045**	**0.7966**		**4,145.0183**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.7900e-003	0.0888	0.0310	4.4000e-004	0.0108	1.6000e-004	0.0110	2.9700e-003	1.6000e-004	3.1300e-003		47.8686	47.8686	3.0600e-003		47.9451
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0913	0.0475	0.7355	2.6800e-003	0.3353	2.0700e-003	0.3374	0.0889	1.9000e-003	0.0908		267.4377	267.4377	5.1200e-003		267.5657
Total	**0.0941**	**0.1363**	**0.7665**	**3.1200e-003**	**0.3462**	**2.2300e-003**	**0.3484**	**0.0919**	**2.0600e-003**	**0.0940**		**315.3064**	**315.3064**	**8.1800e-003**		**315.5108**

3.25 Pump Station Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064		2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**		**0.6588**	**0.6588**		**0.6064**	**0.6064**		**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-004	0.0107	3.7200e-003	5.0000e-005	4.3200e-003	2.0000e-005	4.3400e-003	1.1000e-003	2.0000e-005	1.1200e-003		5.7496	5.7496	3.7000e-004		5.7588
Vendor	0.0178	0.6644	0.1754	2.3900e-003	0.0640	7.2000e-004	0.0647	0.0184	6.9000e-004	0.0191		256.7496	256.7496	0.0130		257.0740
Worker	0.0913	0.0475	0.7355	2.6800e-003	0.3353	2.0700e-003	0.3374	0.0889	1.9000e-003	0.0908		267.4377	267.4377	5.1200e-003		267.5657
Total	**0.1094**	**0.7226**	**0.9146**	**5.1200e-003**	**0.4037**	**2.8100e-003**	**0.4065**	**0.1085**	**2.6100e-003**	**0.1111**		**529.9369**	**529.9369**	**0.0185**		**530.3984**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064	0.0000	2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**		**0.6588**	**0.6588**		**0.6064**	**0.6064**	**0.0000**	**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-004	0.0107	3.7200e-003	5.0000e-005	4.3200e-003	2.0000e-005	4.3400e-003	1.1000e-003	2.0000e-005	1.1200e-003		5.7496	5.7496	3.7000e-004		5.7588
Vendor	0.0178	0.6644	0.1754	2.3900e-003	0.0640	7.2000e-004	0.0647	0.0184	6.9000e-004	0.0191		256.7496	256.7496	0.0130		257.0740
Worker	0.0913	0.0475	0.7355	2.6800e-003	0.3353	2.0700e-003	0.3374	0.0889	1.9000e-003	0.0908		267.4377	267.4377	5.1200e-003		267.5657
Total	**0.1094**	**0.7226**	**0.9146**	**5.1200e-003**	**0.4037**	**2.8100e-003**	**0.4065**	**0.1085**	**2.6100e-003**	**0.1111**		**529.9369**	**529.9369**	**0.0185**		**530.3984**

3.25 Pump Station Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064		2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**		**0.6588**	**0.6588**		**0.6064**	**0.6064**		**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.3000e-004	0.0105	3.7400e-003	5.0000e-005	2.3500e-003	2.0000e-005	2.3700e-003	6.1000e-004	2.0000e-005	6.3000e-004		5.7257	5.7257	3.7000e-004		5.7348
Vendor	0.0175	0.6594	0.1730	2.3800e-003	0.0640	7.1000e-004	0.0647	0.0184	6.8000e-004	0.0191		255.6718	255.6718	0.0128		255.9913
Worker	0.0867	0.0439	0.6932	2.6000e-003	0.3353	1.9100e-003	0.3372	0.0889	1.7600e-003	0.0907		259.5730	259.5730	4.7200e-003		259.6911
Total	**0.1045**	**0.7139**	**0.8700**	**5.0300e-003**	**0.4017**	**2.6400e-003**	**0.4043**	**0.1080**	**2.4600e-003**	**0.1104**		**520.9705**	**520.9705**	**0.0179**		**521.4171**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064	0.0000	2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**		**0.6588**	**0.6588**		**0.6064**	**0.6064**	**0.0000**	**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.3000e-004	0.0105	3.7400e-003	5.0000e-005	2.3500e-003	2.0000e-005	2.3700e-003	6.1000e-004	2.0000e-005	6.3000e-004		5.7257	5.7257	3.7000e-004		5.7348
Vendor	0.0175	0.6594	0.1730	2.3800e-003	0.0640	7.1000e-004	0.0647	0.0184	6.8000e-004	0.0191		255.6718	255.6718	0.0128		255.9913
Worker	0.0867	0.0439	0.6932	2.6000e-003	0.3353	1.9100e-003	0.3372	0.0889	1.7600e-003	0.0907		259.5730	259.5730	4.7200e-003		259.6911
Total	**0.1045**	**0.7139**	**0.8700**	**5.0300e-003**	**0.4017**	**2.6400e-003**	**0.4043**	**0.1080**	**2.4600e-003**	**0.1104**		**520.9705**	**520.9705**	**0.0179**		**521.4171**

3.25 Pump Station Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064		2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**		**0.6588**	**0.6588**		**0.6064**	**0.6064**		**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.3000e-004	0.0104	3.7600e-003	5.0000e-005	3.9600e-003	2.0000e-005	3.9800e-003	1.0100e-003	2.0000e-005	1.0300e-003		5.7035	5.7035	3.6000e-004		5.7126
Vendor	0.0172	0.6545	0.1708	2.3700e-003	0.0640	7.0000e-004	0.0647	0.0184	6.7000e-004	0.0191		254.7140	254.7140	0.0126		255.0290
Worker	0.0815	0.0405	0.6516	2.5300e-003	0.3353	1.7800e-003	0.3371	0.0889	1.6400e-003	0.0906		252.6063	252.6063	4.3400e-003		252.7147
Total	**0.0991**	**0.7054**	**0.8262**	**4.9500e-003**	**0.4033**	**2.5000e-003**	**0.4058**	**0.1084**	**2.3300e-003**	**0.1107**		**513.0238**	**513.0238**	**0.0173**		**513.4563**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064	0.0000	2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**		**0.6588**	**0.6588**		**0.6064**	**0.6064**	**0.0000**	**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.3000e-004	0.0104	3.7600e-003	5.0000e-005	3.9600e-003	2.0000e-005	3.9800e-003	1.0100e-003	2.0000e-005	1.0300e-003		5.7035	5.7035	3.6000e-004		5.7126
Vendor	0.0172	0.6545	0.1708	2.3700e-003	0.0640	7.0000e-004	0.0647	0.0184	6.7000e-004	0.0191		254.7140	254.7140	0.0126		255.0290
Worker	0.0815	0.0405	0.6516	2.5300e-003	0.3353	1.7800e-003	0.3371	0.0889	1.6400e-003	0.0906		252.6063	252.6063	4.3400e-003		252.7147
Total	**0.0991**	**0.7054**	**0.8262**	**4.9500e-003**	**0.4033**	**2.5000e-003**	**0.4058**	**0.1084**	**2.3300e-003**	**0.1107**		**513.0238**	**513.0238**	**0.0173**		**513.4563**

CalEEMod Version: CalEEMod.2016.3.2

Date: 10/8/2019 9:50 AM

De Soto Storage Tanks Project
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	5.00	User Defined Unit	5.00	217,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - De Soto Storage Tanks Project. SCAQMD.

Land Use - Project consists of 3,270-linear-foot of pipeline and a 20 MG storage tank

Construction Phase - Construction would occur January 2023 through July 2029.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - No construction equipment assumed.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

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Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Trips and VMT - Updated worker, vendor, and haul trips per applicant. Updated haul trip length: approximately 90 miles to LADWP Mojave Yard, assumed default 20 miles for rest.

On-road Fugitive Dust -

Demolition - 559 tons of debris.

Construction Off-road Equipment Mitigation - Comply with Rule 403: water three times per day vehicle speeds of 15 mph. Use of Tier 4 interim.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	11.00
tblConstructionPhase	NumDays	230.00	27.00
tblConstructionPhase	NumDays	230.00	409.00
tblConstructionPhase	NumDays	230.00	284.00

tblConstructionPhase	NumDays	230.00	8.00
tblConstructionPhase	NumDays	230.00	14.00
tblConstructionPhase	NumDays	230.00	66.00
tblConstructionPhase	NumDays	230.00	44.00
tblConstructionPhase	NumDays	230.00	28.00
tblConstructionPhase	NumDays	230.00	57.00
tblConstructionPhase	NumDays	230.00	45.00
tblConstructionPhase	NumDays	230.00	23.00
tblConstructionPhase	NumDays	230.00	537.00
tblConstructionPhase	NumDays	230.00	545.00
tblConstructionPhase	NumDays	230.00	44.00
tblConstructionPhase	NumDays	20.00	129.00
tblConstructionPhase	NumDays	8.00	185.00
tblConstructionPhase	NumDays	8.00	19.00
tblConstructionPhase	NumDays	8.00	77.00
tblConstructionPhase	NumDays	8.00	27.00
tblConstructionPhase	NumDays	8.00	55.00
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tblOffRoadEquipment	PhaseName		Demoltion

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tblOffRoadEquipment	PhaseName		Flow Control Station 4

tblOffRoadEquipment	PhaseName		Demoltion
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tblTripsAndVMT	WorkerTripNumber	91.00	0.00
tblTripsAndVMT	WorkerVehicleClass		LD_Mix

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	7.1124	89.4324	70.1872	0.4093	15.3589	2.7472	16.7597	5.7764	2.6161	7.1073	0.0000	43,397.6088	43,397.6088	3.8544	0.0000	43,493.9684
2024	7.0054	66.0586	81.4672	0.1854	2.7569	2.4579	5.2148	0.7438	2.3598	3.1035	0.0000	18,248.5830	18,248.5830	2.5225	0.0000	18,311.6438
2025	4.7445	42.3188	53.7870	0.1179	8.3746	1.6613	10.0359	3.8565	1.5778	5.4343	0.0000	11,509.8020	11,509.8020	1.6400	0.0000	11,550.8030
2026	1.6974	17.3521	12.9922	0.0349	6.9901	0.6622	7.6522	3.4859	0.6096	4.0955	0.0000	3,420.2351	3,420.2351	0.9166	0.0000	3,443.1513
2027	2.3664	20.6991	23.7774	0.0460	0.4389	0.8546	1.2935	0.1085	0.8116	0.9176	0.0000	4,422.1317	4,422.1317	0.9080	0.0000	4,442.2429
2028	1.6759	16.9435	12.7903	0.0334	0.4017	0.6614	1.0631	0.1080	0.6089	0.7169	0.0000	3,257.4309	3,257.4309	0.9074	0.0000	3,280.1147
2029	1.6701	16.9346	12.7501	0.0333	0.4033	0.6613	1.0646	0.1084	0.6088	0.7172	0.0000	3,249.9582	3,249.9582	0.9068	0.0000	3,272.6280
Maximum	**7.1124**	**89.4324**	**81.4672**	**0.4093**	**15.3589**	**2.7472**	**16.7597**	**5.7764**	**2.6161**	**7.1073**	**0.0000**	**43,397.6088**	**43,397.6088**	**3.8544**	**0.0000**	**43,493.9684**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	7.1124	89.4324	70.1872	0.4093	11.3620	2.7472	12.7628	3.7222	2.6161	5.0531	0.0000	43,397.6088	43,397.6088	3.8544	0.0000	43,493.9684
2024	7.0054	66.0586	81.4672	0.1854	2.7569	2.4579	5.2148	0.7438	2.3598	3.1035	0.0000	18,248.5830	18,248.5830	2.5225	0.0000	18,311.6437
2025	4.7445	42.3188	53.7870	0.1179	4.3777	1.6613	6.0390	1.8024	1.5778	3.3801	0.0000	11,509.8019	11,509.8019	1.6400	0.0000	11,550.8030
2026	1.6974	17.3521	12.9922	0.0349	2.9931	0.6622	3.6553	1.4317	0.6096	2.0414	0.0000	3,420.2351	3,420.2351	0.9166	0.0000	3,443.1513
2027	2.3664	20.6991	23.7774	0.0460	0.4037	0.8546	1.2369	0.1085	0.8116	0.9090	0.0000	4,422.1317	4,422.1317	0.9080	0.0000	4,442.2429
2028	1.6759	16.9435	12.7903	0.0334	0.4017	0.6614	1.0631	0.1080	0.6089	0.7169	0.0000	3,257.4308	3,257.4308	0.9074	0.0000	3,280.1147
2029	1.6701	16.9346	12.7501	0.0333	0.4033	0.6613	1.0646	0.1084	0.6088	0.7172	0.0000	3,249.9582	3,249.9582	0.9068	0.0000	3,272.6280
Maximum	**7.1124**	**89.4324**	**81.4672**	**0.4093**	**11.3620**	**2.7472**	**12.7628**	**3.7222**	**2.6161**	**5.0531**	**0.0000**	**43,397.6088**	**43,397.6088**	**3.8544**	**0.0000**	**43,493.9684**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**34.63**	**0.00**	**27.96**	**43.44**	**0.00**	**27.93**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Excavation 1	Grading	1/1/2023	9/15/2023	5	185	Entire duration
2	Excavation 2	Grading	1/1/2023	1/26/2023	5	19	Equipment use 10% of phase
3	Excavation 3	Grading	1/1/2023	2/7/2023	5	27	Equipment use 15% of phase
4	Excavation 4	Grading	1/1/2023	3/17/2023	5	55	Equipment use 30% of phase
5	Excavation 5	Grading	1/1/2023	9/15/2023	5	185	For haul trips
6	Pipeline Installation 1	Trenching	6/1/2023	6/30/2025	5	543	Entire duration

7	Pipeline Installation 2	Trenching	6/1/2023	8/15/2023	5	54	Equipment use 10% of phase
8	Storage Tank Construction 1	Building Construction	10/1/2023	10/31/2025	5	545	Entire duration
9	Storage Tank Construction 2	Building Construction	10/1/2023	11/30/2023	5	44	First two months
10	Storage Tank Construction 3	Building Construction	10/1/2023	10/16/2023	5	11	Equipment use 2% of phase
11	Storage Tank Construction 4	Building Construction	10/1/2023	11/7/2023	5	27	Equipment use 5% of phase
12	Storage Tank Construction 5	Building Construction	10/1/2023	4/24/2025	5	409	Equipment use 75% of phase
13	Flow Control Station 1	Building Construction	10/1/2024	10/31/2025	5	284	Entire duration
14	Flow Control Station 2	Building Construction	10/1/2024	10/10/2024	5	8	8 days of phase
15	Flow Control Station 3	Building Construction	10/1/2024	10/18/2024	5	14	Two weeks or 5% of phase
16	Flow Control Station 4	Building Construction	10/1/2024	12/31/2024	5	66	Equipment use for 3 months
17	Flow Control Station 5	Building Construction	10/1/2024	11/29/2024	5	44	Equipment use for 2 months
18	Flow Control Station 6	Building Construction	10/1/2024	11/7/2024	5	28	Equipment use 10% of phase
19	Flow Control Station 7	Building Construction	10/1/2024	12/18/2024	5	57	Equipment use 20% of phase
20	Storage Tank Construction 6	Building Construction	9/1/2025	10/31/2025	5	45	Last two months
21	Finish Grading/Site Improvements	Grading	10/1/2025	1/15/2026	5	77	
22	Storage Tank Construction 7	Building Construction	10/1/2025	10/31/2025	5	23	Last month
23	Demoltion	Demolition	1/1/2027	6/30/2027	5	129	Demolition of existing tanks
24	Pump Station Construction	Building Construction	7/1/2027	7/20/2029	5	537	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Excavation 1	Excavators	1	8.00	158	0.38
Excavation 1	Generator Sets	1	8.00	84	0.74
Excavation 1	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Excavation 2	Cranes	1	6.00	231	0.29
Excavation 2	Rubber Tired Dozers	1	8.00	247	0.40
Excavation 2	Welders	1	8.00	46	0.45
Excavation 3	Bore/Drill Rigs	1	8.00	221	0.50
Excavation 4	Bore/Drill Rigs	1	8.00	221	0.50
Excavation 4	Cement and Mortar Mixers	1	8.00	9	0.56
Excavation 4	Pumps	2	8.00	84	0.74
Pipeline Installation 1	Air Compressors	1	8.00	78	0.48
Pipeline Installation 1	Cranes	1	6.00	231	0.29
Pipeline Installation 1	Excavators	1	8.00	158	0.38
Pipeline Installation 1	Generator Sets	1	8.00	84	0.74
Pipeline Installation 1	Other Construction Equipment	2	6.00	172	0.42
Pipeline Installation 1	Pumps	1	8.00	84	0.74
Pipeline Installation 1	Rough Terrain Forklifts	1	8.00	100	0.40
Pipeline Installation 1	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Pipeline Installation 1	Welders	1	8.00	46	0.45
Pipeline Installation 2	Bore/Drill Rigs	1	8.00	221	0.50
Storage Tank Construction 1	Cranes	1	6.00	231	0.29
Storage Tank Construction 1	Generator Sets	1	8.00	84	0.74
Storage Tank Construction 1	Pumps	3	8.00	84	0.74
Storage Tank Construction 2	Graders	1	8.00	187	0.41
Storage Tank Construction 2	Plate Compactors	1	4.00	8	0.43
Storage Tank Construction 2	Rollers	1	4.00	80	0.38
Storage Tank Construction 2	Rubber Tired Dozers	1	8.00	247	0.40
Storage Tank Construction 2	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Storage Tank Construction 3	Pressure Washers	1	4.00	13	0.30
Storage Tank Construction 4	Air Compressors	1	8.00	78	0.48
Storage Tank Construction 4	Other Construction Equipment	1	8.00	172	0.42
Storage Tank Construction 4	Skid Steer Loaders	1	8.00	65	0.37
Storage Tank Construction 4	Welders	1	8.00	46	0.45
Storage Tank Construction 5	Rough Terrain Forklifts	1	8.00	100	0.40
Flow Control Station 1	Cranes	1	8.00	231	0.29
Flow Control Station 2	Pumps	2	8.00	84	0.74
Flow Control Station 3	Pressure Washers	1	4.00	13	0.30
Flow Control Station 3	Welders	1	8.00	46	0.45
Flow Control Station 4	Rough Terrain Forklifts	1	8.00	100	0.40
Flow Control Station 5	Excavators	1	8.00	158	0.38
Flow Control Station 5	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Flow Control Station 6	Rollers	1	4.00	80	0.38
Flow Control Station 7	Generator Sets	1	8.00	84	0.74
Flow Control Station 7	Plate Compactors	1	4.00	8	0.43
Flow Control Station 7	Skid Steer Loaders	1	8.00	65	0.37
Flow Control Station 7	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Storage Tank Construction 6	Other Construction Equipment	1	8.00	172	0.42
Finish Grading/Site Improvements	Cranes	1	6.00	231	0.29
Finish Grading/Site Improvements	Graders	1	8.00	187	0.41
Finish Grading/Site Improvements	Pavers	1	4.00	130	0.42
Finish Grading/Site Improvements	Plate Compactors	1	4.00	8	0.43
Finish Grading/Site Improvements	Rollers	1	4.00	80	0.38
Finish Grading/Site Improvements	Rubber Tired Dozers	1	8.00	247	0.40
Finish Grading/Site Improvements	Skid Steer Loaders	1	8.00	65	0.37
Finish Grading/Site Improvements	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Storage Tank Construction 7	Cement and Mortar Mixers	1	6.00	9	0.56
Storage Tank Construction 7	Pumps	2	8.00	84	0.74
Demoltion	Air Compressors	1	8.00	78	0.48
Demoltion	Concrete/Industrial Saws	1	6.00	81	0.73

Demoltion	Cranes	1	6.00	231	0.29
Demoltion	Crushing/Proc. Equipment	1	6.00	85	0.78
Demoltion	Generator Sets	1	8.00	84	0.74
Demoltion	Rough Terrain Forklifts	1	8.00	100	0.40
Demoltion	Rubber Tired Dozers	1	8.00	247	0.40
Demoltion	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Pump Station Construction	Cranes	1	6.00	231	0.29
Pump Station Construction	Graders	1	8.00	187	0.41
Pump Station Construction	Pavers	1	4.00	130	0.42
Pump Station Construction	Plate Compactors	1	4.00	8	0.43
Pump Station Construction	Rollers	1	4.00	80	0.38
Pump Station Construction	Rubber Tired Dozers	1	8.00	247	0.40
Pump Station Construction	Skid Steer Loaders	1	8.00	65	0.37
Pump Station Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Excavation 1	5	50.00	10.00	12,565.00	14.70	6.90	90.00	LD_Mix	HDT_Mix	HHDT
Excavation 2	4	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Excavation 3	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Excavation 4	4	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Excavation 5	0	0.00	0.00	30,155.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Installation 1	13	30.00	30.00	3,600.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline Installation 2	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 1	7	100.00	20.00	20.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 2	5	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 3	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 4	4	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 5	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 1	3	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 2	2	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 3	2	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 4	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 5	2	0.00	0.00	1,600.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 6	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 7	4	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 6	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finish Grading/Site Improvements	9	30.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 7	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 7	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demoltion	10	30.00	0.00	80.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pump Station Construction	9	30.00	10.00	40.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Excavation 1 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7973	7.3356	11.3898	0.0180		0.3557	0.3557		0.3375	0.3375		1,726.2932	1,726.2932	0.3842		1,735.8988
Total	**0.7973**	**7.3356**	**11.3898**	**0.0180**	**0.0000**	**0.3557**	**0.3557**	**0.0000**	**0.3375**	**0.3375**		**1,726.2932**	**1,726.2932**	**0.3842**		**1,735.8988**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1503	28.7048	12.7301	0.1959	5.3355	0.0819	5.4174	1.4617	0.0783	1.5401		21,280.5086	21,280.5086	1.2280		21,311.2080
Vendor	0.0205	0.6801	0.2118	2.3800e-003	0.0640	8.1000e-004	0.0648	0.0184	7.7000e-004	0.0192		254.3617	254.3617	0.0147		254.7302
Worker	0.2045	0.1224	1.4400	4.8200e-003	0.5589	3.8900e-003	0.5628	0.1482	3.5800e-003	0.1518		480.6482	480.6482	0.0113		480.9305
Total	**1.3753**	**29.5072**	**14.3818**	**0.2031**	**5.9584**	**0.0866**	**6.0449**	**1.6284**	**0.0827**	**1.7111**		**22,015.5185**	**22,015.5185**	**1.2540**		**22,046.8688**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7973	7.3356	11.3898	0.0180		0.3557	0.3557		0.3375	0.3375	0.0000	1,726.2932	1,726.2932	0.3842		1,735.8988
Total	**0.7973**	**7.3356**	**11.3898**	**0.0180**	**0.0000**	**0.3557**	**0.3557**	**0.0000**	**0.3375**	**0.3375**	**0.0000**	**1,726.2932**	**1,726.2932**	**0.3842**		**1,735.8988**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1503	28.7048	12.7301	0.1959	5.3355	0.0819	5.4174	1.4617	0.0783	1.5401		21,280.5086	21,280.5086	1.2280		21,311.2080
Vendor	0.0205	0.6801	0.2118	2.3800e-003	0.0640	8.1000e-004	0.0648	0.0184	7.7000e-004	0.0192		254.3617	254.3617	0.0147		254.7302
Worker	0.2045	0.1224	1.4400	4.8200e-003	0.5589	3.8900e-003	0.5628	0.1482	3.5800e-003	0.1518		480.6482	480.6482	0.0113		480.9305
Total	**1.3753**	**29.5072**	**14.3818**	**0.2031**	**5.9584**	**0.0866**	**6.0449**	**1.6284**	**0.0827**	**1.7111**		**22,015.5185**	**22,015.5185**	**1.2540**		**22,046.8688**

3.3 Excavation 2 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.2027	11.4093	6.1601	0.0154		0.4956	0.4956		0.4603	0.4603		1,453.5929	1,453.5929	0.4257		1,464.2342
Total	**1.2027**	**11.4093**	**6.1601**	**0.0154**	**6.5523**	**0.4956**	**7.0479**	**3.3675**	**0.4603**	**3.8278**		**1,453.5929**	**1,453.5929**	**0.4257**		**1,464.2342**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	1.2027	11.4093	6.1601	0.0154		0.4956	0.4956		0.4603	0.4603	0.0000	1,453.5929	1,453.5929	0.4257		1,464.2342
Total	**1.2027**	**11.4093**	**6.1601**	**0.0154**	**2.5554**	**0.4956**	**3.0510**	**1.3133**	**0.4603**	**1.7736**	**0.0000**	**1,453.5929**	**1,453.5929**	**0.4257**		**1,464.2342**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.4 Excavation 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2151	2.0396	2.0329	9.4600e-003		0.0660	0.0660		0.0608	0.0608		915.4033	915.4033	0.2961		922.8048
Total	**0.2151**	**2.0396**	**2.0329**	**9.4600e-003**	**0.0000**	**0.0660**	**0.0660**	**0.0000**	**0.0608**	**0.0608**		**915.4033**	**915.4033**	**0.2961**		**922.8048**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2151	2.0396	2.0329	9.4600e-003		0.0660	0.0660		0.0608	0.0608	0.0000	915.4033	915.4033	0.2961		922.8048
Total	**0.2151**	**2.0396**	**2.0329**	**9.4600e-003**	**0.0000**	**0.0660**	**0.0660**	**0.0000**	**0.0608**	**0.0608**	**0.0000**	**915.4033**	**915.4033**	**0.2961**		**922.8048**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.5 Excavation 4 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.9295	7.9134	9.7918	0.0233		0.3500	0.3500		0.3448	0.3448		2,211.9887	2,211.9887	0.3583		2,220.9465
Total	**0.9295**	**7.9134**	**9.7918**	**0.0233**	**0.0000**	**0.3500**	**0.3500**	**0.0000**	**0.3448**	**0.3448**		**2,211.9887**	**2,211.9887**	**0.3583**		**2,220.9465**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.9295	7.9134	9.7918	0.0233		0.3500	0.3500		0.3448	0.3448	0.0000	2,211.9887	2,211.9887	0.3583		2,220.9465
Total	**0.9295**	**7.9134**	**9.7918**	**0.0233**	**0.0000**	**0.3500**	**0.3500**	**0.0000**	**0.3448**	**0.3448**	**0.0000**	**2,211.9887**	**2,211.9887**	**0.3583**		**2,220.9465**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.6 Excavation 5 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**			**0.0000**			**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7648	24.7652	8.2724	0.1160	2.8482	0.0469	2.8951	0.7805	0.0449	0.8254		12,594.2823	12,594.2823	0.8432		12,615.3631
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.7648**	**24.7652**	**8.2724**	**0.1160**	**2.8482**	**0.0469**	**2.8951**	**0.7805**	**0.0449**	**0.8254**		**12,594.2823**	**12,594.2823**	**0.8432**		**12,615.3631**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**			**0.0000**			**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7648	24.7652	8.2724	0.1160	2.8482	0.0469	2.8951	0.7805	0.0449	0.8254		12,594.2823	12,594.2823	0.8432		12,615.3631
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.7648**	**24.7652**	**8.2724**	**0.1160**	**2.8482**	**0.0469**	**2.8951**	**0.7805**	**0.0449**	**0.8254**		**12,594.2823**	**12,594.2823**	**0.8432**		**12,615.3631**

3.7 Pipeline Installation 1 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5271	22.6640	28.8748	0.0481		1.0730	1.0730		1.0202	1.0202		4,582.3799	4,582.3799	0.9916		4,607.1689
Total	**2.5271**	**22.6640**	**28.8748**	**0.0481**		**1.0730**	**1.0730**		**1.0202**	**1.0202**		**4,582.3799**	**4,582.3799**	**0.9916**		**4,607.1689**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0311	1.0073	0.3365	4.7200e-003	0.3413	1.9100e-003	0.3432	0.0871	1.8300e-003	0.0889		512.2577	512.2577	0.0343		513.1151
Vendor	0.0615	2.0401	0.6353	7.1400e-003	0.1920	2.4200e-003	0.1944	0.0553	2.3100e-003	0.0576		763.0850	763.0850	0.0442		764.1907
Worker	0.1227	0.0734	0.8640	2.8900e-003	0.3353	2.3400e-003	0.3377	0.0889	2.1500e-003	0.0911		288.3889	288.3889	6.7700e-003		288.5583
Total	**0.2154**	**3.1209**	**1.8358**	**0.0148**	**0.8687**	**6.6700e-003**	**0.8753**	**0.2313**	**6.2900e-003**	**0.2376**		**1,563.7316**	**1,563.7316**	**0.0853**		**1,565.8641**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5271	22.6640	28.8748	0.0481		1.0730	1.0730		1.0202	1.0202	0.0000	4,582.3799	4,582.3799	0.9916		4,607.1689
Total	**2.5271**	**22.6640**	**28.8748**	**0.0481**		**1.0730**	**1.0730**		**1.0202**	**1.0202**	**0.0000**	**4,582.3799**	**4,582.3799**	**0.9916**		**4,607.1689**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0311	1.0073	0.3365	4.7200e-003	0.3413	1.9100e-003	0.3432	0.0871	1.8300e-003	0.0889		512.2577	512.2577	0.0343		513.1151
Vendor	0.0615	2.0401	0.6353	7.1400e-003	0.1920	2.4200e-003	0.1944	0.0553	2.3100e-003	0.0576		763.0850	763.0850	0.0442		764.1907
Worker	0.1227	0.0734	0.8640	2.8900e-003	0.3353	2.3400e-003	0.3377	0.0889	2.1500e-003	0.0911		288.3889	288.3889	6.7700e-003		288.5583
Total	**0.2154**	**3.1209**	**1.8358**	**0.0148**	**0.8687**	**6.6700e-003**	**0.8753**	**0.2313**	**6.2900e-003**	**0.2376**		**1,563.7316**	**1,563.7316**	**0.0853**		**1,565.8641**

3.7 Pipeline Installation 1 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3850	21.2232	28.8364	0.0481		0.9577	0.9577		0.9097	0.9097		4,582.8184	4,582.8184	0.9856		4,607.4591
Total	**2.3850**	**21.2232**	**28.8364**	**0.0481**		**0.9577**	**0.9577**		**0.9097**	**0.9097**		**4,582.8184**	**4,582.8184**	**0.9856**		**4,607.4591**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0314	1.0018	0.3413	4.7000e-003	0.2099	1.8900e-003	0.2118	0.0548	1.8100e-003	0.0566		510.4603	510.4603	0.0342		511.3159
Vendor	0.0602	2.0357	0.6171	7.1100e-003	0.1920	2.3900e-003	0.1944	0.0553	2.2800e-003	0.0576		760.4896	760.4896	0.0435		761.5771
Worker	0.1165	0.0669	0.8055	2.8000e-003	0.3353	2.3000e-003	0.3376	0.0889	2.1200e-003	0.0911		278.8868	278.8868	6.2000e-003		279.0418
Total	**0.2080**	**3.1044**	**1.7639**	**0.0146**	**0.7372**	**6.5800e-003**	**0.7438**	**0.1990**	**6.2100e-003**	**0.2052**		**1,549.8367**	**1,549.8367**	**0.0839**		**1,551.9348**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3850	21.2232	28.8364	0.0481		0.9577	0.9577		0.9097	0.9097	0.0000	4,582.8184	4,582.8184	0.9856		4,607.4591
Total	**2.3850**	**21.2232**	**28.8364**	**0.0481**		**0.9577**	**0.9577**		**0.9097**	**0.9097**	**0.0000**	**4,582.8184**	**4,582.8184**	**0.9856**		**4,607.4591**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0314	1.0018	0.3413	4.7000e-003	0.2099	1.8900e-003	0.2118	0.0548	1.8100e-003	0.0566		510.4603	510.4603	0.0342		511.3159
Vendor	0.0602	2.0357	0.6171	7.1100e-003	0.1920	2.3900e-003	0.1944	0.0553	2.2800e-003	0.0576		760.4896	760.4896	0.0435		761.5771
Worker	0.1165	0.0669	0.8055	2.8000e-003	0.3353	2.3000e-003	0.3376	0.0889	2.1200e-003	0.0911		278.8868	278.8868	6.2000e-003		279.0418
Total	**0.2080**	**3.1044**	**1.7639**	**0.0146**	**0.7372**	**6.5800e-003**	**0.7438**	**0.1990**	**6.2100e-003**	**0.2052**		**1,549.8367**	**1,549.8367**	**0.0839**		**1,551.9348**

3.7 Pipeline Installation 1 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2117	19.3854	28.7396	0.0481		0.8252	0.8252		0.7836	0.7836		4,584.0351	4,584.0351	0.9795		4,608.5230
Total	**2.2117**	**19.3854**	**28.7396**	**0.0481**		**0.8252**	**0.8252**		**0.7836**	**0.7836**		**4,584.0351**	**4,584.0351**	**0.9795**		**4,608.5230**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0312	0.9857	0.3435	4.6600e-003	0.3972	1.8600e-003	0.3990	0.1008	1.7800e-003	0.1026		507.6189	507.6189	0.0341		508.4715
Vendor	0.0587	2.0179	0.6010	7.0600e-003	0.1920	2.3400e-003	0.1943	0.0553	2.2400e-003	0.0575		756.2954	756.2954	0.0428		757.3645
Worker	0.1110	0.0612	0.7479	2.6900e-003	0.3353	2.2600e-003	0.3376	0.0889	2.0800e-003	0.0910		267.9011	267.9011	5.6500e-003		268.0423
Total	**0.2008**	**3.0647**	**1.6924**	**0.0144**	**0.9245**	**6.4600e-003**	**0.9309**	**0.2450**	**6.1000e-003**	**0.2511**		**1,531.8153**	**1,531.8153**	**0.0825**		**1,533.8783**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2117	19.3854	28.7396	0.0481		0.8252	0.8252		0.7836	0.7836	0.0000	4,584.0351	4,584.0351	0.9795		4,608.5230
Total	**2.2117**	**19.3854**	**28.7396**	**0.0481**		**0.8252**	**0.8252**		**0.7836**	**0.7836**	**0.0000**	**4,584.0351**	**4,584.0351**	**0.9795**		**4,608.5230**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0312	0.9857	0.3435	4.6600e-003	0.3972	1.8600e-003	0.3990	0.1008	1.7800e-003	0.1026		507.6189	507.6189	0.0341		508.4715
Vendor	0.0587	2.0179	0.6010	7.0600e-003	0.1920	2.3400e-003	0.1943	0.0553	2.2400e-003	0.0575		756.2954	756.2954	0.0428		757.3645
Worker	0.1110	0.0612	0.7479	2.6900e-003	0.3353	2.2600e-003	0.3376	0.0889	2.0800e-003	0.0910		267.9011	267.9011	5.6500e-003		268.0423
Total	**0.2008**	**3.0647**	**1.6924**	**0.0144**	**0.9245**	**6.4600e-003**	**0.9309**	**0.2450**	**6.1000e-003**	**0.2511**		**1,531.8153**	**1,531.8153**	**0.0825**		**1,533.8783**

3.8 Pipeline Installation 2 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2151	2.0396	2.0329	9.4600e-003		0.0660	0.0660		0.0608	0.0608		915.4033	915.4033	0.2961		922.8048
Total	**0.2151**	**2.0396**	**2.0329**	**9.4600e-003**		**0.0660**	**0.0660**		**0.0608**	**0.0608**		**915.4033**	**915.4033**	**0.2961**		**922.8048**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2151	2.0396	2.0329	9.4600e-003		0.0660	0.0660		0.0608	0.0608	0.0000	915.4033	915.4033	0.2961		922.8048
Total	**0.2151**	**2.0396**	**2.0329**	**9.4600e-003**		**0.0660**	**0.0660**		**0.0608**	**0.0608**	**0.0000**	**915.4033**	**915.4033**	**0.2961**		**922.8048**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.9 Storage Tank Construction 1 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5528	13.8358	16.2210	0.0306		0.6523	0.6523		0.6428	0.6428		2,911.2527	2,911.2527	0.2485		2,917.4645
Total	**1.5528**	**13.8358**	**16.2210**	**0.0306**		**0.6523**	**0.6523**		**0.6428**	**0.6428**		**2,911.2527**	**2,911.2527**	**0.2485**		**2,917.4645**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7000e-004	5.5800e-003	1.8600e-003	3.0000e-005	4.2200e-003	1.0000e-005	4.2300e-003	1.0600e-003	1.0000e-005	1.0700e-003		2.8354	2.8354	1.9000e-004		2.8402
Vendor	0.0410	1.3601	0.4235	4.7600e-003	0.1280	1.6100e-003	0.1296	0.0369	1.5400e-003	0.0384		508.7233	508.7233	0.0295		509.4604
Worker	0.4091	0.2448	2.8799	9.6400e-003	1.1178	7.7800e-003	1.1256	0.2964	7.1700e-003	0.3036		961.2964	961.2964	0.0226		961.8610
Total	**0.4503**	**1.6105**	**3.3053**	**0.0144**	**1.2500**	**9.4000e-003**	**1.2594**	**0.3344**	**8.7200e-003**	**0.3431**		**1,472.8552**	**1,472.8552**	**0.0523**		**1,474.1616**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5528	13.8358	16.2210	0.0306		0.6523	0.6523		0.6428	0.6428	0.0000	2,911.2527	2,911.2527	0.2485		2,917.4645
Total	**1.5528**	**13.8358**	**16.2210**	**0.0306**		**0.6523**	**0.6523**		**0.6428**	**0.6428**	**0.0000**	**2,911.2527**	**2,911.2527**	**0.2485**		**2,917.4645**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7000e-004	5.5800e-003	1.8600e-003	3.0000e-005	4.2200e-003	1.0000e-005	4.2300e-003	1.0600e-003	1.0000e-005	1.0700e-003		2.8354	2.8354	1.9000e-004		2.8402
Vendor	0.0410	1.3601	0.4235	4.7600e-003	0.1280	1.6100e-003	0.1296	0.0369	1.5400e-003	0.0384		508.7233	508.7233	0.0295		509.4604
Worker	0.4091	0.2448	2.8799	9.6400e-003	1.1178	7.7800e-003	1.1256	0.2964	7.1700e-003	0.3036		961.2964	961.2964	0.0226		961.8610
Total	**0.4503**	**1.6105**	**3.3053**	**0.0144**	**1.2500**	**9.4000e-003**	**1.2594**	**0.3344**	**8.7200e-003**	**0.3431**		**1,472.8552**	**1,472.8552**	**0.0523**		**1,474.1616**

3.9 Storage Tank Construction 1 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4515	12.9084	16.1543	0.0306		0.5720	0.5720		0.5633	0.5633		2,911.2438	2,911.2438	0.2430		2,917.3184
Total	**1.4515**	**12.9084**	**16.1543**	**0.0306**		**0.5720**	**0.5720**		**0.5633**	**0.5633**		**2,911.2438**	**2,911.2438**	**0.2430**		**2,917.3184**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7000e-004	5.5500e-003	1.8900e-003	3.0000e-005	1.1700e-003	1.0000e-005	1.1800e-003	3.0000e-004	1.0000e-005	3.1000e-004		2.8255	2.8255	1.9000e-004		2.8302
Vendor	0.0401	1.3571	0.4114	4.7400e-003	0.1280	1.5900e-003	0.1296	0.0369	1.5200e-003	0.0384		506.9931	506.9931	0.0290		507.7180
Worker	0.3883	0.2230	2.6851	9.3200e-003	1.1178	7.6800e-003	1.1255	0.2964	7.0700e-003	0.3035		929.6225	929.6225	0.0207		930.1394
Total	**0.4286**	**1.5857**	**3.0984**	**0.0141**	**1.2469**	**9.2800e-003**	**1.2562**	**0.3336**	**8.6000e-003**	**0.3422**		**1,439.4411**	**1,439.4411**	**0.0499**		**1,440.6877**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4515	12.9084	16.1543	0.0306		0.5720	0.5720		0.5633	0.5633	0.0000	2,911.2438	2,911.2438	0.2430		2,917.3184
Total	**1.4515**	**12.9084**	**16.1543**	**0.0306**		**0.5720**	**0.5720**		**0.5633**	**0.5633**	**0.0000**	**2,911.2438**	**2,911.2438**	**0.2430**		**2,917.3184**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7000e-004	5.5500e-003	1.8900e-003	3.0000e-005	1.1700e-003	1.0000e-005	1.1800e-003	3.0000e-004	1.0000e-005	3.1000e-004		2.8255	2.8255	1.9000e-004		2.8302
Vendor	0.0401	1.3571	0.4114	4.7400e-003	0.1280	1.5900e-003	0.1296	0.0369	1.5200e-003	0.0384		506.9931	506.9931	0.0290		507.7180
Worker	0.3883	0.2230	2.6851	9.3200e-003	1.1178	7.6800e-003	1.1255	0.2964	7.0700e-003	0.3035		929.6225	929.6225	0.0207		930.1394
Total	**0.4286**	**1.5857**	**3.0984**	**0.0141**	**1.2469**	**9.2800e-003**	**1.2562**	**0.3336**	**8.6000e-003**	**0.3422**		**1,439.4411**	**1,439.4411**	**0.0499**		**1,440.6877**

3.9 Storage Tank Construction 1 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3594	12.0498	16.1081	0.0306		0.4990	0.4990		0.4909	0.4909		2,911.2580	2,911.2580	0.2342		2,917.1135
Total	**1.3594**	**12.0498**	**16.1081**	**0.0306**		**0.4990**	**0.4990**		**0.4909**	**0.4909**		**2,911.2580**	**2,911.2580**	**0.2342**		**2,917.1135**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7000e-004	5.4600e-003	1.9000e-003	3.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.5000e-004	1.0000e-005	3.6000e-004		2.8098	2.8098	1.9000e-004		2.8145
Vendor	0.0391	1.3453	0.4006	4.7100e-003	0.1280	1.5600e-003	0.1296	0.0369	1.4900e-003	0.0383		504.1969	504.1969	0.0285		504.9096
Worker	0.3699	0.2039	2.4930	8.9500e-003	1.1178	7.5300e-003	1.1253	0.2964	6.9300e-003	0.3034		893.0035	893.0035	0.0188		893.4743
Total	**0.4091**	**1.5546**	**2.8956**	**0.0137**	**1.2471**	**9.1000e-003**	**1.2562**	**0.3336**	**8.4300e-003**	**0.3421**		**1,400.0102**	**1,400.0102**	**0.0475**		**1,401.1984**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3594	12.0498	16.1081	0.0306		0.4990	0.4990		0.4909	0.4909	0.0000	2,911.2580	2,911.2580	0.2342		2,917.1135
Total	**1.3594**	**12.0498**	**16.1081**	**0.0306**		**0.4990**	**0.4990**		**0.4909**	**0.4909**	**0.0000**	**2,911.2580**	**2,911.2580**	**0.2342**		**2,917.1135**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7000e-004	5.4600e-003	1.9000e-003	3.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.5000e-004	1.0000e-005	3.6000e-004		2.8098	2.8098	1.9000e-004		2.8145
Vendor	0.0391	1.3453	0.4006	4.7100e-003	0.1280	1.5600e-003	0.1296	0.0369	1.4900e-003	0.0383		504.1969	504.1969	0.0285		504.9096
Worker	0.3699	0.2039	2.4930	8.9500e-003	1.1178	7.5300e-003	1.1253	0.2964	6.9300e-003	0.3034		893.0035	893.0035	0.0188		893.4743
Total	**0.4091**	**1.5546**	**2.8956**	**0.0137**	**1.2471**	**9.1000e-003**	**1.2562**	**0.3336**	**8.4300e-003**	**0.3421**		**1,400.0102**	**1,400.0102**	**0.0475**		**1,401.1984**

3.10 Storage Tank Construction 2 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3164	14.2466	8.0616	0.0198		0.5967	0.5967		0.5493	0.5493		1,913.7259	1,913.7259	0.6152		1,929.1047
Total	**1.3164**	**14.2466**	**8.0616**	**0.0198**		**0.5967**	**0.5967**		**0.5493**	**0.5493**		**1,913.7259**	**1,913.7259**	**0.6152**		**1,929.1047**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3164	14.2466	8.0616	0.0198		0.5967	0.5967		0.5493	0.5493	0.0000	1,913.7259	1,913.7259	0.6152		1,929.1047
Total	**1.3164**	**14.2466**	**8.0616**	**0.0198**		**0.5967**	**0.5967**		**0.5493**	**0.5493**	**0.0000**	**1,913.7259**	**1,913.7259**	**0.6152**		**1,929.1047**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.11 Storage Tank Construction 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0213	0.1494	0.1207	2.8000e-004		6.4000e-003	6.4000e-003		6.4000e-003	6.4000e-003		19.5450	19.5450	1.8900e-003		19.5923
Total	**0.0213**	**0.1494**	**0.1207**	**2.8000e-004**		**6.4000e-003**	**6.4000e-003**		**6.4000e-003**	**6.4000e-003**		**19.5450**	**19.5450**	**1.8900e-003**		**19.5923**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0213	0.1494	0.1207	2.8000e-004		6.4000e-003	6.4000e-003		6.4000e-003	6.4000e-003	0.0000	19.5450	19.5450	1.8900e-003		19.5923
Total	**0.0213**	**0.1494**	**0.1207**	**2.8000e-004**		**6.4000e-003**	**6.4000e-003**		**6.4000e-003**	**6.4000e-003**	**0.0000**	**19.5450**	**19.5450**	**1.8900e-003**		**19.5923**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.12 Storage Tank Construction 4 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9235	7.4603	9.4808	0.0148		0.3578	0.3578		0.3411	0.3411		1,381.4897	1,381.4897	0.3034		1,389.0751
Total	**0.9235**	**7.4603**	**9.4808**	**0.0148**		**0.3578**	**0.3578**		**0.3411**	**0.3411**		**1,381.4897**	**1,381.4897**	**0.3034**		**1,389.0751**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9235	7.4603	9.4808	0.0148		0.3578	0.3578		0.3411	0.3411	0.0000	1,381.4897	1,381.4897	0.3034		1,389.0751
Total	**0.9235**	**7.4603**	**9.4808**	**0.0148**		**0.3578**	**0.3578**		**0.3411**	**0.3411**	**0.0000**	**1,381.4897**	**1,381.4897**	**0.3034**		**1,389.0751**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.13 Storage Tank Construction 5 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1058	1.3994	2.2873	3.4500e-003		0.0450	0.0450		0.0414	0.0414		333.8035	333.8035	0.1080		336.5024
Total	**0.1058**	**1.3994**	**2.2873**	**3.4500e-003**		**0.0450**	**0.0450**		**0.0414**	**0.0414**		**333.8035**	**333.8035**	**0.1080**		**336.5024**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1058	1.3994	2.2873	3.4500e-003		0.0450	0.0450		0.0414	0.0414	0.0000	333.8035	333.8035	0.1080		336.5024
Total	**0.1058**	**1.3994**	**2.2873**	**3.4500e-003**		**0.0450**	**0.0450**		**0.0414**	**0.0414**	**0.0000**	**333.8035**	**333.8035**	**0.1080**		**336.5024**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.13 Storage Tank Construction 5 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1024	1.3502	2.2891	3.4500e-003		0.0411	0.0411		0.0378	0.0378		333.7362	333.7362	0.1079		336.4346
Total	**0.1024**	**1.3502**	**2.2891**	**3.4500e-003**		**0.0411**	**0.0411**		**0.0378**	**0.0378**		**333.7362**	**333.7362**	**0.1079**		**336.4346**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1024	1.3502	2.2891	3.4500e-003		0.0411	0.0411		0.0378	0.0378	0.0000	333.7362	333.7362	0.1079		336.4346
Total	**0.1024**	**1.3502**	**2.2891**	**3.4500e-003**		**0.0411**	**0.0411**		**0.0378**	**0.0378**	**0.0000**	**333.7362**	**333.7362**	**0.1079**		**336.4346**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.13 Storage Tank Construction 5 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0970	1.2843	2.2856	3.4500e-003		0.0361	0.0361		0.0332	0.0332		333.7175	333.7175	0.1079		336.4158
Total	**0.0970**	**1.2843**	**2.2856**	**3.4500e-003**		**0.0361**	**0.0361**		**0.0332**	**0.0332**		**333.7175**	**333.7175**	**0.1079**		**336.4158**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0970	1.2843	2.2856	3.4500e-003		0.0361	0.0361		0.0332	0.0332	0.0000	333.7175	333.7175	0.1079		336.4158
Total	**0.0970**	**1.2843**	**2.2856**	**3.4500e-003**		**0.0361**	**0.0361**		**0.0332**	**0.0332**	**0.0000**	**333.7175**	**333.7175**	**0.1079**		**336.4158**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.14 Flow Control Station 1 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3318	3.5043	1.7747	5.7700e-003		0.1458	0.1458		0.1341	0.1341		558.8073	558.8073	0.1807		563.3256
Total	**0.3318**	**3.5043**	**1.7747**	**5.7700e-003**		**0.1458**	**0.1458**		**0.1341**	**0.1341**		**558.8073**	**558.8073**	**0.1807**		**563.3256**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.0300e-003	0.2714	0.0823	9.5000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.0000e-004	7.6700e-003		101.3986	101.3986	5.8000e-003		101.5436
Worker	0.0388	0.0223	0.2685	9.3000e-004	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304		92.9623	92.9623	2.0700e-003		93.0139
Total	**0.0469**	**0.2937**	**0.3508**	**1.8800e-003**	**0.1374**	**1.0900e-003**	**0.1385**	**0.0370**	**1.0100e-003**	**0.0380**		**194.3609**	**194.3609**	**7.8700e-003**		**194.5576**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3318	3.5043	1.7747	5.7700e-003		0.1458	0.1458		0.1341	0.1341	0.0000	558.8073	558.8073	0.1807		563.3256
Total	**0.3318**	**3.5043**	**1.7747**	**5.7700e-003**		**0.1458**	**0.1458**		**0.1341**	**0.1341**	**0.0000**	**558.8073**	**558.8073**	**0.1807**		**563.3256**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.0300e-003	0.2714	0.0823	9.5000e-004	0.0256	3.2000e-004	0.0259	7.3700e-003	3.0000e-004	7.6700e-003		101.3986	101.3986	5.8000e-003		101.5436
Worker	0.0388	0.0223	0.2685	9.3000e-004	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304		92.9623	92.9623	2.0700e-003		93.0139
Total	**0.0469**	**0.2937**	**0.3508**	**1.8800e-003**	**0.1374**	**1.0900e-003**	**0.1385**	**0.0370**	**1.0100e-003**	**0.0380**		**194.3609**	**194.3609**	**7.8700e-003**		**194.5576**

3.14 Flow Control Station 1 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3128	3.1679	1.7365	5.7700e-003		0.1347	0.1347		0.1239	0.1239		558.8262	558.8262	0.1807		563.3446
Total	**0.3128**	**3.1679**	**1.7365**	**5.7700e-003**		**0.1347**	**0.1347**		**0.1239**	**0.1239**		**558.8262**	**558.8262**	**0.1807**		**563.3446**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.8200e-003	0.2691	0.0801	9.4000e-004	0.0256	3.1000e-004	0.0259	7.3700e-003	3.0000e-004	7.6700e-003		100.8394	100.8394	5.7000e-003		100.9819
Worker	0.0370	0.0204	0.2493	9.0000e-004	0.1118	7.5000e-004	0.1125	0.0296	6.9000e-004	0.0303		89.3004	89.3004	1.8800e-003		89.3474
Total	**0.0448**	**0.2894**	**0.3294**	**1.8400e-003**	**0.1374**	**1.0600e-003**	**0.1384**	**0.0370**	**9.9000e-004**	**0.0380**		**190.1397**	**190.1397**	**7.5800e-003**		**190.3294**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3128	3.1679	1.7365	5.7700e-003		0.1347	0.1347		0.1239	0.1239	0.0000	558.8262	558.8262	0.1807		563.3446
Total	**0.3128**	**3.1679**	**1.7365**	**5.7700e-003**		**0.1347**	**0.1347**		**0.1239**	**0.1239**	**0.0000**	**558.8262**	**558.8262**	**0.1807**		**563.3446**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.8200e-003	0.2691	0.0801	9.4000e-004	0.0256	3.1000e-004	0.0259	7.3700e-003	3.0000e-004	7.6700e-003		100.8394	100.8394	5.7000e-003		100.9819
Worker	0.0370	0.0204	0.2493	9.0000e-004	0.1118	7.5000e-004	0.1125	0.0296	6.9000e-004	0.0303		89.3004	89.3004	1.8800e-003		89.3474
Total	**0.0448**	**0.2894**	**0.3294**	**1.8400e-003**	**0.1374**	**1.0600e-003**	**0.1384**	**0.0370**	**9.9000e-004**	**0.0380**		**190.1397**	**190.1397**	**7.5800e-003**		**190.3294**

3.15 Flow Control Station 2 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6117	5.1571	7.4396	0.0132		0.2346	0.2346		0.2346	0.2346		1,246.0691	1,246.0691	0.0548		1,247.4395
Total	**0.6117**	**5.1571**	**7.4396**	**0.0132**		**0.2346**	**0.2346**		**0.2346**	**0.2346**		**1,246.0691**	**1,246.0691**	**0.0548**		**1,247.4395**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6117	5.1571	7.4396	0.0132		0.2346	0.2346		0.2346	0.2346	0.0000	1,246.0691	1,246.0691	0.0548		1,247.4395
Total	**0.6117**	**5.1571**	**7.4396**	**0.0132**		**0.2346**	**0.2346**		**0.2346**	**0.2346**	**0.0000**	**1,246.0691**	**1,246.0691**	**0.0548**		**1,247.4395**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.16 Flow Control Station 3 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2569	1.5288	1.7840	2.8300e-003		0.0537	0.0537		0.0537	0.0537		227.0227	227.0227	0.0231		227.5994
Total	**0.2569**	**1.5288**	**1.7840**	**2.8300e-003**		**0.0537**	**0.0537**		**0.0537**	**0.0537**		**227.0227**	**227.0227**	**0.0231**		**227.5994**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2569	1.5288	1.7840	2.8300e-003		0.0537	0.0537		0.0537	0.0537	0.0000	227.0227	227.0227	0.0231		227.5994
Total	**0.2569**	**1.5288**	**1.7840**	**2.8300e-003**		**0.0537**	**0.0537**		**0.0537**	**0.0537**	**0.0000**	**227.0227**	**227.0227**	**0.0231**		**227.5994**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.17 Flow Control Station 4 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1024	1.3502	2.2891	3.4500e-003		0.0411	0.0411		0.0378	0.0378		333.7362	333.7362	0.1079		336.4346
Total	**0.1024**	**1.3502**	**2.2891**	**3.4500e-003**		**0.0411**	**0.0411**		**0.0378**	**0.0378**		**333.7362**	**333.7362**	**0.1079**		**336.4346**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1024	1.3502	2.2891	3.4500e-003		0.0411	0.0411		0.0378	0.0378	0.0000	333.7362	333.7362	0.1079		336.4346
Total	**0.1024**	**1.3502**	**2.2891**	**3.4500e-003**		**0.0411**	**0.0411**		**0.0378**	**0.0378**	**0.0000**	**333.7362**	**333.7362**	**0.1079**		**336.4346**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.18 Flow Control Station 5 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3242	2.8511	5.5006	8.2900e-003		0.1356	0.1356		0.1247	0.1247		802.0321	802.0321	0.2594		808.5170
Total	**0.3242**	**2.8511**	**5.5006**	**8.2900e-003**		**0.1356**	**0.1356**		**0.1247**	**0.1247**		**802.0321**	**802.0321**	**0.2594**		**808.5170**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1720	5.4946	1.8720	0.0258	0.6354	0.0104	0.6458	0.1741	9.9100e-003	0.1840		2,799.7975	2,799.7975	0.1877		2,804.4902
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1720**	**5.4946**	**1.8720**	**0.0258**	**0.6354**	**0.0104**	**0.6458**	**0.1741**	**9.9100e-003**	**0.1840**		**2,799.7975**	**2,799.7975**	**0.1877**		**2,804.4902**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3242	2.8511	5.5006	8.2900e-003		0.1356	0.1356		0.1247	0.1247	0.0000	802.0321	802.0321	0.2594		808.5169
Total	**0.3242**	**2.8511**	**5.5006**	**8.2900e-003**		**0.1356**	**0.1356**		**0.1247**	**0.1247**	**0.0000**	**802.0321**	**802.0321**	**0.2594**		**808.5169**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1720	5.4946	1.8720	0.0258	0.6354	0.0104	0.6458	0.1741	9.9100e-003	0.1840		2,799.7975	2,799.7975	0.1877		2,804.4902
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.1720**	**5.4946**	**1.8720**	**0.0258**	**0.6354**	**0.0104**	**0.6458**	**0.1741**	**9.9100e-003**	**0.1840**		**2,799.7975**	**2,799.7975**	**0.1877**		**2,804.4902**

3.19 Flow Control Station 6 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0729	0.7622	0.9250	1.3100e-003		0.0403	0.0403		0.0371	0.0371		127.0729	127.0729	0.0411		128.1003
Total	**0.0729**	**0.7622**	**0.9250**	**1.3100e-003**		**0.0403**	**0.0403**		**0.0371**	**0.0371**		**127.0729**	**127.0729**	**0.0411**		**128.1003**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0729	0.7622	0.9250	1.3100e-003		0.0403	0.0403		0.0371	0.0371	0.0000	127.0729	127.0729	0.0411		128.1003
Total	**0.0729**	**0.7622**	**0.9250**	**1.3100e-003**		**0.0403**	**0.0403**		**0.0371**	**0.0371**	**0.0000**	**127.0729**	**127.0729**	**0.0411**		**128.1003**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.20 Flow Control Station 7 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5113	4.9449	7.3892	0.0120		0.2086	0.2086		0.2012	0.2012		1,142.6082	1,142.6082	0.1895		1,147.3450
Total	**0.5113**	**4.9449**	**7.3892**	**0.0120**		**0.2086**	**0.2086**		**0.2012**	**0.2012**		**1,142.6082**	**1,142.6082**	**0.1895**		**1,147.3450**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5113	4.9449	7.3892	0.0120		0.2086	0.2086		0.2012	0.2012	0.0000	1,142.6082	1,142.6082	0.1895		1,147.3450
Total	**0.5113**	**4.9449**	**7.3892**	**0.0120**		**0.2086**	**0.2086**		**0.2012**	**0.2012**	**0.0000**	**1,142.6082**	**1,142.6082**	**0.1895**		**1,147.3450**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.21 Storage Tank Construction 6 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2991	2.7615	3.9962	6.1800e-003		0.1428	0.1428		0.1314	0.1314		598.6249	598.6249	0.1936		603.4651
Total	**0.2991**	**2.7615**	**3.9962**	**6.1800e-003**		**0.1428**	**0.1428**		**0.1314**	**0.1314**		**598.6249**	**598.6249**	**0.1936**		**603.4651**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2991	2.7615	3.9962	6.1800e-003		0.1428	0.1428		0.1314	0.1314	0.0000	598.6249	598.6249	0.1936		603.4651
Total	**0.2991**	**2.7615**	**3.9962**	**6.1800e-003**		**0.1428**	**0.1428**		**0.1314**	**0.1314**	**0.0000**	**598.6249**	**598.6249**	**0.1936**		**603.4651**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.22 Finish Grading/Site Improvements - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064		2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**	**6.5523**	**0.6588**	**7.2111**	**3.3675**	**0.6064**	**3.9739**		**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0313	1.0762	0.3205	3.7700e-003	0.1024	1.2500e-003	0.1037	0.0295	1.1900e-003	0.0307		403.3575	403.3575	0.0228		403.9277
Worker	0.1110	0.0612	0.7479	2.6900e-003	0.3353	2.2600e-003	0.3376	0.0889	2.0800e-003	0.0910		267.9011	267.9011	5.6500e-003		268.0423
Total	**0.1422**	**1.1374**	**1.0684**	**6.4600e-003**	**0.4377**	**3.5100e-003**	**0.4412**	**0.1184**	**3.2700e-003**	**0.1217**		**671.2586**	**671.2586**	**0.0285**		**671.9700**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064	0.0000	2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**	**2.5554**	**0.6588**	**3.2142**	**1.3133**	**0.6064**	**1.9198**	**0.0000**	**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0313	1.0762	0.3205	3.7700e-003	0.1024	1.2500e-003	0.1037	0.0295	1.1900e-003	0.0307		403.3575	403.3575	0.0228		403.9277
Worker	0.1110	0.0612	0.7479	2.6900e-003	0.3353	2.2600e-003	0.3376	0.0889	2.0800e-003	0.0910		267.9011	267.9011	5.6500e-003		268.0423
Total	**0.1422**	**1.1374**	**1.0684**	**6.4600e-003**	**0.4377**	**3.5100e-003**	**0.4412**	**0.1184**	**3.2700e-003**	**0.1217**		**671.2586**	**671.2586**	**0.0285**		**671.9700**

3.22 Finish Grading/Site Improvements - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064		2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**	**6.5523**	**0.6588**	**7.2111**	**3.3675**	**0.6064**	**3.9739**		**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0306	1.0661	0.3139	3.7400e-003	0.1024	1.2200e-003	0.1036	0.0295	1.1700e-003	0.0307		401.2164	401.2164	0.0224		401.7769
Worker	0.1062	0.0563	0.6988	2.5900e-003	0.3353	2.1900e-003	0.3375	0.0889	2.0100e-003	0.0909		258.4012	258.4012	5.1700e-003		258.5305
Total	**0.1368**	**1.1224**	**1.0127**	**6.3300e-003**	**0.4377**	**3.4100e-003**	**0.4411**	**0.1184**	**3.1800e-003**	**0.1216**		**659.6176**	**659.6176**	**0.0276**		**660.3074**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064	0.0000	2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**	**2.5554**	**0.6588**	**3.2142**	**1.3133**	**0.6064**	**1.9198**	**0.0000**	**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0306	1.0661	0.3139	3.7400e-003	0.1024	1.2200e-003	0.1036	0.0295	1.1700e-003	0.0307		401.2164	401.2164	0.0224		401.7769
Worker	0.1062	0.0563	0.6988	2.5900e-003	0.3353	2.1900e-003	0.3375	0.0889	2.0100e-003	0.0909		258.4012	258.4012	5.1700e-003		258.5305
Total	**0.1368**	**1.1224**	**1.0127**	**6.3300e-003**	**0.4377**	**3.4100e-003**	**0.4411**	**0.1184**	**3.1800e-003**	**0.1216**		**659.6176**	**659.6176**	**0.0276**		**660.3074**

3.23 Storage Tank Construction 7 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6163	5.1284	7.6621	0.0137		0.2125	0.2125		0.2125	0.2125		1,283.9564	1,283.9564	0.0544		1,285.3155
Total	**0.6163**	**5.1284**	**7.6621**	**0.0137**		**0.2125**	**0.2125**		**0.2125**	**0.2125**		**1,283.9564**	**1,283.9564**	**0.0544**		**1,285.3155**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6163	5.1284	7.6621	0.0137		0.2125	0.2125		0.2125	0.2125	0.0000	1,283.9564	1,283.9564	0.0544		1,285.3155
Total	**0.6163**	**5.1284**	**7.6621**	**0.0137**		**0.2125**	**0.2125**		**0.2125**	**0.2125**	**0.0000**	**1,283.9564**	**1,283.9564**	**0.0544**		**1,285.3155**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.24 Demoltion - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0927	0.0000	0.0927	0.0140	0.0000	0.0140			0.0000			0.0000
Off-Road	2.2620	20.5579	23.0899	0.0431		0.8524	0.8524		0.8096	0.8096		4,125.1045	4,125.1045	0.7966		4,145.0183
Total	**2.2620**	**20.5579**	**23.0899**	**0.0431**	**0.0927**	**0.8524**	**0.9451**	**0.0140**	**0.8096**	**0.8236**		**4,125.1045**	**4,125.1045**	**0.7966**		**4,145.0183**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.8700e-003	0.0892	0.0325	4.3000e-004	0.0108	1.7000e-004	0.0110	2.9700e-003	1.6000e-004	3.1300e-003		47.0050	47.0050	3.1500e-003		47.0838
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1015	0.0519	0.6550	2.5100e-003	0.3353	2.0700e-003	0.3374	0.0889	1.9000e-003	0.0908		250.0222	250.0222	4.7500e-003		250.1408
Total	**0.1044**	**0.1412**	**0.6875**	**2.9400e-003**	**0.3462**	**2.2400e-003**	**0.3484**	**0.0919**	**2.0600e-003**	**0.0940**		**297.0272**	**297.0272**	**7.9000e-003**		**297.2246**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0362	0.0000	0.0362	5.4800e-003	0.0000	5.4800e-003			0.0000			0.0000
Off-Road	2.2620	20.5579	23.0899	0.0431		0.8524	0.8524		0.8096	0.8096	0.0000	4,125.1045	4,125.1045	0.7966		4,145.0183
Total	**2.2620**	**20.5579**	**23.0899**	**0.0431**	**0.0362**	**0.8524**	**0.8885**	**5.4800e-003**	**0.8096**	**0.8150**	**0.0000**	**4,125.1045**	**4,125.1045**	**0.7966**		**4,145.0183**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.8700e-003	0.0892	0.0325	4.3000e-004	0.0108	1.7000e-004	0.0110	2.9700e-003	1.6000e-004	3.1300e-003		47.0050	47.0050	3.1500e-003		47.0838
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1015	0.0519	0.6550	2.5100e-003	0.3353	2.0700e-003	0.3374	0.0889	1.9000e-003	0.0908		250.0222	250.0222	4.7500e-003		250.1408
Total	**0.1044**	**0.1412**	**0.6875**	**2.9400e-003**	**0.3462**	**2.2400e-003**	**0.3484**	**0.0919**	**2.0600e-003**	**0.0940**		**297.0272**	**297.0272**	**7.9000e-003**		**297.2246**

3.25 Pump Station Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064		2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**		**0.6588**	**0.6588**		**0.6064**	**0.6064**		**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-004	0.0107	3.9000e-003	5.0000e-005	4.3200e-003	2.0000e-005	4.3400e-003	1.1000e-003	2.0000e-005	1.1200e-003		5.6459	5.6459	3.8000e-004		5.6553
Vendor	0.0187	0.6602	0.1928	2.3300e-003	0.0640	7.5000e-004	0.0648	0.0184	7.2000e-004	0.0191		249.5625	249.5625	0.0138		249.9068
Worker	0.1015	0.0519	0.6550	2.5100e-003	0.3353	2.0700e-003	0.3374	0.0889	1.9000e-003	0.0908		250.0222	250.0222	4.7500e-003		250.1408
Total	**0.1206**	**0.7229**	**0.8517**	**4.8900e-003**	**0.4037**	**2.8400e-003**	**0.4065**	**0.1085**	**2.6400e-003**	**0.1111**		**505.2305**	**505.2305**	**0.0189**		**505.7029**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064	0.0000	2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**		**0.6588**	**0.6588**		**0.6064**	**0.6064**	**0.0000**	**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-004	0.0107	3.9000e-003	5.0000e-005	4.3200e-003	2.0000e-005	4.3400e-003	1.1000e-003	2.0000e-005	1.1200e-003		5.6459	5.6459	3.8000e-004		5.6553
Vendor	0.0187	0.6602	0.1928	2.3300e-003	0.0640	7.5000e-004	0.0648	0.0184	7.2000e-004	0.0191		249.5625	249.5625	0.0138		249.9068
Worker	0.1015	0.0519	0.6550	2.5100e-003	0.3353	2.0700e-003	0.3374	0.0889	1.9000e-003	0.0908		250.0222	250.0222	4.7500e-003		250.1408
Total	**0.1206**	**0.7229**	**0.8517**	**4.8900e-003**	**0.4037**	**2.8400e-003**	**0.4065**	**0.1085**	**2.6400e-003**	**0.1111**		**505.2305**	**505.2305**	**0.0189**		**505.7029**

3.25 Pump Station Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064		2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**		**0.6588**	**0.6588**		**0.6064**	**0.6064**		**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-004	0.0106	3.9200e-003	5.0000e-005	2.3500e-003	2.0000e-005	2.3700e-003	6.1000e-004	2.0000e-005	6.3000e-004		5.6229	5.6229	3.8000e-004		5.6323
Vendor	0.0184	0.6552	0.1902	2.3200e-003	0.0640	7.4000e-004	0.0647	0.0184	7.0000e-004	0.0191		248.5483	248.5483	0.0136		248.8870
Worker	0.0966	0.0480	0.6167	2.4300e-003	0.3353	1.9100e-003	0.3372	0.0889	1.7600e-003	0.0907		242.6422	242.6422	4.3800e-003		242.7516
Total	**0.1153**	**0.7138**	**0.8108**	**4.8000e-003**	**0.4017**	**2.6700e-003**	**0.4044**	**0.1080**	**2.4800e-003**	**0.1105**		**496.8134**	**496.8134**	**0.0183**		**497.2709**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064	0.0000	2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**		**0.6588**	**0.6588**		**0.6064**	**0.6064**	**0.0000**	**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-004	0.0106	3.9200e-003	5.0000e-005	2.3500e-003	2.0000e-005	2.3700e-003	6.1000e-004	2.0000e-005	6.3000e-004		5.6229	5.6229	3.8000e-004		5.6323
Vendor	0.0184	0.6552	0.1902	2.3200e-003	0.0640	7.4000e-004	0.0647	0.0184	7.0000e-004	0.0191		248.5483	248.5483	0.0136		248.8870
Worker	0.0966	0.0480	0.6167	2.4300e-003	0.3353	1.9100e-003	0.3372	0.0889	1.7600e-003	0.0907		242.6422	242.6422	4.3800e-003		242.7516
Total	**0.1153**	**0.7138**	**0.8108**	**4.8000e-003**	**0.4017**	**2.6700e-003**	**0.4044**	**0.1080**	**2.4800e-003**	**0.1105**		**496.8134**	**496.8134**	**0.0183**		**497.2709**

3.25 Pump Station Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064		2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**		**0.6588**	**0.6588**		**0.6064**	**0.6064**		**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-004	0.0104	3.9300e-003	5.0000e-005	3.9600e-003	2.0000e-005	3.9800e-003	1.0100e-003	2.0000e-005	1.0300e-003		5.6015	5.6015	3.7000e-004		5.6109
Vendor	0.0181	0.6503	0.1878	2.3100e-003	0.0640	7.2000e-004	0.0647	0.0184	6.9000e-004	0.0191		247.6427	247.6427	0.0134		247.9766
Worker	0.0910	0.0442	0.5788	2.3700e-003	0.3353	1.7800e-003	0.3371	0.0889	1.6400e-003	0.0906		236.0964	236.0964	4.0100e-003		236.1968
Total	**0.1095**	**0.7050**	**0.7706**	**4.7300e-003**	**0.4033**	**2.5200e-003**	**0.4058**	**0.1084**	**2.3500e-003**	**0.1107**		**489.3407**	**489.3407**	**0.0177**		**489.7842**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5606	16.2297	11.9795	0.0286		0.6588	0.6588		0.6064	0.6064	0.0000	2,760.6175	2,760.6175	0.8891		2,782.8438
Total	**1.5606**	**16.2297**	**11.9795**	**0.0286**		**0.6588**	**0.6588**		**0.6064**	**0.6064**	**0.0000**	**2,760.6175**	**2,760.6175**	**0.8891**		**2,782.8438**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-004	0.0104	3.9300e-003	5.0000e-005	3.9600e-003	2.0000e-005	3.9800e-003	1.0100e-003	2.0000e-005	1.0300e-003		5.6015	5.6015	3.7000e-004		5.6109
Vendor	0.0181	0.6503	0.1878	2.3100e-003	0.0640	7.2000e-004	0.0647	0.0184	6.9000e-004	0.0191		247.6427	247.6427	0.0134		247.9766
Worker	0.0910	0.0442	0.5788	2.3700e-003	0.3353	1.7800e-003	0.3371	0.0889	1.6400e-003	0.0906		236.0964	236.0964	4.0100e-003		236.1968
Total	**0.1095**	**0.7050**	**0.7706**	**4.7300e-003**	**0.4033**	**2.5200e-003**	**0.4058**	**0.1084**	**2.3500e-003**	**0.1107**		**489.3407**	**489.3407**	**0.0177**		**489.7842**

CalEEMod Version: CalEEMod.2016.3.2

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De Soto Storage Tanks and Pump Station - Emergency Generator
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - De Soto Storage Tanks Project. SCAQMD.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblGrading	AcresOfGrading	0.00	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	3,352.55	3,352.56
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Stationary	0.5500	2.4600	1.4026	2.6400e-003		0.0809	0.0809		0.0809	0.0809	0.0000	255.2864	255.2864	0.0358	0.0000	256.1812

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Stationary	0.5500	2.4600	1.4026	2.6400e-003		0.0809	0.0809		0.0809	0.0809	0.0000	255.2864	255.2864	0.0358	0.0000	256.1812

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

CalEEMod Version: CalEEMod.2016.3.2

Date: 6/20/2019 2:39 PM

De Soto Storage Tanks and Pump Station - Emergency Generator

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - De Soto Storage Tanks Project. SCAQMD.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblGrading	AcresOfGrading	0.00	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	3,352.55	3,352.56
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Stationary	2.7501	12.2997	7.0130	0.0132		0.4046	0.4046		0.4046	0.4046		1,407.0257	1,407.0257	0.1973		1,411.9573

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Stationary	2.7501	12.2997	7.0130	0.0132		0.4046	0.4046		0.4046	0.4046		1,407.0257	1,407.0257	0.1973		1,411.9573

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	200	3352.555	0.73	Diesel

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel	2.7501	12.2997	7.0130	0.0132		0.4046	0.4046		0.4046	0.4046		1,407.0257	1,407.0257	0.1973		1,411.9573
Total	**2.7501**	**12.2997**	**7.0130**	**0.0132**		**0.4046**	**0.4046**		**0.4046**	**0.4046**		**1,407.0257**	**1,407.0257**	**0.1973**		**1,411.9573**

CalEEMod Version: CalEEMod.2016.3.2

Date: 6/20/2019 2:40 PM

De Soto Storage Tanks and Pump Station - Emergency Generator

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - De Soto Storage Tanks Project. SCAQMD.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblGrading	AcresOfGrading	0.00	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	3,352.55	3,352.56
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	200.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Stationary	2.7501	12.2997	7.0130	0.0132		0.4046	0.4046		0.4046	0.4046		1,407.0257	1,407.0257	0.1973		1,411.9573

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Stationary	2.7501	12.2997	7.0130	0.0132		0.4046	0.4046		0.4046	0.4046		1,407.0257	1,407.0257	0.1973		1,411.9573

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	200	3352.555	0.73	Diesel

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel	2.7501	12.2997	7.0130	0.0132		0.4046	0.4046		0.4046	0.4046		1,407.0257	1,407.0257	0.1973		1,411.9573
Total	**2.7501**	**12.2997**	**7.0130**	**0.0132**		**0.4046**	**0.4046**		**0.4046**	**0.4046**		**1,407.0257**	**1,407.0257**	**0.1973**		**1,411.9573**

Construction

Hours of Operation for Construction Equipment

Phase	Equipment Type	Number of Equipment	Hours/day	Phase Duration	Hours of Equipmment Use	Phase Totals	MTCO2
Excavation							
	Excavators	1	8	185	1,480		
	Generator Sets	1	8	185	1,480		
	Tractors/Loaders/Backhoes	2	8	185	2,960		
	Cranes	1	6	19	114		
	Rubber Tired Dozers	1	8	19	152		
	Welders	1	8	19	152		
	Bore/Drill Rigs	2	8	27	432		
	Bore/Drill Rigs	1	8	55	440		
	Cement and Mortar Mixers	2	8	55	880		
	Pumps	2	8	55	880		
	Total	**14**			0	**8,970**	**225.00**
Pipeline Installation							
	Air Compressors	1	8	543	4,344		
	Cranes	1	6	543	3,258		
	Excavators	1	8	543	4,344		
	Generator Sets	1	8	543	4,344		
	Other Construction Equipment	2	6	543	6,516		
	Pumps	1	8	543	4,344		
	Rough Terrain Forklifts	1	8	543	4,344		
	Tractors/Loaders/Backhoes	2	8	543	8,688		
	Welders	1	8	543	4,344		
	Bore/Drill Rigs	1	8	54	432		
	Total	**12**				**44,958**	**1,157.46**
Storage Tank Construction							
	Cranes	1	6	545	3,270		
	Generator Sets	1	8	545	4,360		
	Pumps	3	8	545	13,080		
	Graders	1	8	44	352		
	Plate Compactors	1	4	44	176		
	Rollers	1	4	44	176		
	Rubber Tired Dozers	1	8	44	352		
	Tractors/Loaders/Backhoes	1	8	44	352		
	Pressure Washers	1	4	11	44		
	Air Compressors	1	8	27	216		
	Other Construction Equipment	1	4	27	108		
	Skid Steer Loaders	1	8	27	216		
	Welders	1	8	27	216		
	Rough Terrain Forklifts	1	8	409	3,272		
	Other Construction Equipment	1	8	45	360		
	Cement and Mortar Mixers	1	6	23	138		
	Pumps	2	8	23	368		
	Total	**20**				**27,056**	**864.92**
Flow Control Station							
	Cranes	1	8	284	2,272		
	Pumps	2	8	8	128		
	Pressure Washers	1	4	14	56		
	Welders	1	8	14	112		
	Rough Terrain Forklifts	1	8	66	528		
	Excavators	1	8	44	352		
	Tractors/Loaders/Backhoes	1	8	44	352		
	Rollers	1	4	28	112		
	Generator Sets	1	8	57	456		
	Plate Compactors	1	4	57	228		
	Skid Steer Loaders	1	8	57	456		
	Tractors/Loaders/Backhoes	1	8	57	456		
	Total	**13**				**5,508**	**136.04**
Finish Work Grading							
	Cranes	1	6	77	462		
	Graders	1	8	77	616		
	Pavers	1	4	77	308		
	Plate Compactors	1	4	77	308		
	Rollers	1	4	77	308		
	Rubber Tired Dozers	1	8	77	616		
	Skid Steer Loaders	1	8	77	616		
	Tractors/Loaders/Backhoes	1	8	77	616		
	Total	**8**				**3,850**	**97.20**
Demolition							
	Air Compressors	1	8	129	1,032		

	Concrete/Industrial Saws	1	6	129	774		
	Cranes	1	6	129	774		
	Crushing/Processing Equipment	1	6	129	774		
	Forklifts	1	8	129	1,032		
	Generator Sets	1	8	129	1,032		
	Rough Terrain Forklifts	1	8	129	1,032		
	Rubber Tired Dozers	1	8	129	1,032		
	Tractors/Loaders/Backhoes	2	8	129	2,064		
Total		**10**				**9,546**	**242.54**
Pump Station Construction							
	Cranes	1	6	537	3,222		
	Graders	1	8	537	4,296		
	Pavers	1	4	537	2,148		
	Plate Compactors	1	4	537	2,148		
	Rollers	1	4	537	2,148		
	Rubber Tired Dozers	1	8	537	4,296		
	Skid Steer Loaders	1	8	537	4,296		
	Tractors/Loaders/Backhoes	1	8	537	4,296		
Total		**8**				**26,850**	**677.84**
					Total	**126,738**	**3,401**

Construction Equipment Diesel Demand

Phase	Pieces of Equipment	Equipment CO2 (MT)	Kg/CO2/Gallon	Gallons
Excavation	14	225.00	10.21	22,036.73
Pipeline Installation	12	1,157.46	10.21	113,365.74
Storage Tank Construction	20	864.92	10.21	84,713.17
Flow Control Station	13	136.04	10.21	13,324.29
Finish Work Grading	8	97.20	10.21	9,519.61
Demolition	10	242.54	10.21	23,755.03
Pump Station Construction	8	677.84	10.21	66,389.99
			Total	**333,104.56**

Construction Worker Gasoline Demand

Phase	Trips	Vehicle CO2 (MT)	Kg/CO2/Gallon	Gallons
Excavation	9,250	41.05	8.78	4,675.34
Pipeline Installation	16,290	69.92	8.78	7,963.79
Storage Tank Construction	54,500	231.15	8.78	26,327.40
Flow Control Station	2,840	11.82	8.78	1,346.17
Finish Work Grading	2,310	9.47	8.78	1,079.10
Demolition	3,870	5.44	8.78	619.77
Pump Station Construction	16,110	75.05	8.78	8,547.76
			Total	**50,559.34**

Construction Vendor Truck Diesel Demand

Phase	Trips	Vehicle CO2 (MT)	Kg/CO2/Gallon	Gallons
Excavation	1,850	21.74	10.21	2,129.28
Pipeline Installation	16,290	190.68	10.21	18,676.18
Storage Tank Construction	10,900	127.40	10.21	12,478.07
Flow Control Station	1,136	13.24	10.21	1,297.22
Finish Work Grading	1,232	14.33	10.21	1,403.91
Demolition	0	0.00	10.21	0.00
Pump Station Construction	5,370	61.63	10.21	6,036.13
			Total	**42,020.78**

Construction Haul Truck Diesel Demand

Phase	Trips	Vehicle CO2 (MT)	Kg/CO2/Gallon	Gallons
Excavation	46,720	2,863.28	10.21	280,438.41
Pipeline Installation	3,600	127.26	10.21	12,463.91
Storage Tank Construction	20	0.71	10.21	69.15
Flow Control Station	1,600	56.58	10.21	5,541.32
Finish Work Grading	0	0.00	10.21	0.00
Demolition	80	2.78	10.21	272.70
Pump Station Construction	40	1.39	10.21	135.79
			Total	**298,921.28**

Total Diesel	674,046.63
Total Gasoline	50,559.34
	724,605.97

California's Consumption of Petroleum Over Construction Period

52,900,000	gallons per day
107,757,300,000.00	

		WorkDays	TotalDays
1/1/2023	9/15/2023	185	257
9/16/2023	6/30/2025	466	653
7/1/2025	10/31/2025	89	122
11/1/2025	1/15/2026	54	75
1/1/2027	6/30/2027	129	180
7/1/2027	7/20/2029	537	750
		1460	2037

Health Risk Assessment Report
for the De Soto Storage Tanks and Pump Station Project
City of Los Angeles, California

Prepared for:

Los Angeles Department of Water and Power
Environmental Services
111 North Hope Street, Room 1044
Los Angeles, California 90012

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ACRONYMS AND ABBREVIATIONS

Acronym/Abbreviation	Definition
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
ASF	age-sensitivity factor
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
DBR	daily breathing rate
DPM	diesel particulate matter
FAH	fraction of time at home
HARP2	Hotspots Analysis and Reporting Program, Version 2
HRA	health risk assessment
NED	National Elevation Dataset
OEHHA	Office of Environmental Health Hazard Assessment
PM_{10}	particulate matter with a diameter less the 10 microns
REL	reference exposure level
SCAQMD	South Coast Air Quality Management District
sf	square feet
TAC	toxic air contaminant
$\mu g/m^3$	microgram per cubic meter

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SUMMARY

The purpose of this health risk assessment (HRA) is to determine the potential cancer risk and non-cancer health impacts to existing sensitive residential receptors in proximity to the proposed De Soto Storage Tanks and Pump Station Project (proposed project) due to toxic air contaminant (TAC) emissions from construction of the project.

Air dispersion modeling was conducted using the American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) Version 18081 and the Hotspots Analysis and Reporting Program Version 2 (HARP2). The South Coast Air Quality Management District's (SCAQMD's) *Modeling Guidance for AERMOD* (SCAQMD 2018a) and the Office of Environmental Health Hazard Assessment's (OEHHA's) *Air Toxics Hot Spots Program Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessments* (2015 Risk Assessment Guidelines Manual; OEHHA 2015) were used to prepare this HRA. For the residential health risk, the HRA assumes exposure would start in the 3rd trimester of pregnancy and occur 8 hours per day, 5 days per week, for 7 years. For the school receptor health risk, the HRA assumes exposure would start at age 5 and occur 8 hours per day, 5 days per week, for 7 years.

Diesel particulate matter (DPM) emissions have an established cancer risk factor and reference exposure level (REL) for long term chronic health hazard impacts. No short term, acute REL has been established and therefore acute health risk impacts are not addressed in this assessment. This HRA finds that unmitigated project construction would result in potential chronic health risk at the maximally exposed residential and school receptors of 0.02 and 0.05, respectively, which are below the SCAQMD threshold of 1.0. Chronic health risk impacts would be less than significant. The unmitigated potential cancer risk at the maximally exposed residential and school receptors would be 63 in 1 million and 52 in 1 million, respectively, which would exceed the SCAQMD threshold of 10 in 1 million. With implementation of mitigation, the potential cancer risk estimates at the maximally exposed residential and school receptors would be reduced to 7.5 in 1 million and 6.2 in 1 million, respectively. Cancer risk at both the residential and school receptors would be less than significant after mitigation.

1 INTRODUCTION

1.1 Purpose

In support of the air quality assessment, Dudek has prepared an HRA modeling analysis to estimate health risk impacts to existing residents from exposure to TAC emissions from construction of the project. The analysis in this HRA uses air dispersion modeling and HARP2 to evaluate potential health risks associated with the project. Results of the modeling analysis are compared with the most recent California Environmental Quality Act (CEQA) significance thresholds established by SCAQMD. Per CEQA Guidelines, Appendix G (14 CCR 15000 et seq.), the HRA directly addresses question (d): Would the project expose sensitive receptors to substantial pollutant concentrations?

1.2 Project Description

The proposed project is a water storage project that is being proposed by the LADWP. The project would functionally replace the existing 3MG De Soto Reservoir, located at 11200 De Soto Avenue, with two buried, pre-stressed circular concrete storage tanks immediately north of the existing reservoir site. The combined operating storage capacity upon completion of the new storage tanks would be approximately 20 MG. In addition, new pipelines, the inlets, and outlets pipelines of the tanks would be constructed on site as well as extend off site to connect with the Rinaldi Trunk Line to the east and the De Soto Trunk Line to the south. After completion of the tanks and pipelines, the existing De Soto Reservoir would be demolished and the new pump station would be constructed.

1.3 Sensitive Receptors

Some land uses are considered more sensitive to changes in air quality than others, depending on the population groups and the activities involved. People most likely to be affected by air pollution include children, the elderly, athletes, and people with cardiovascular and chronic respiratory diseases. Facilities and structures where these air pollution-sensitive people live or spend considerable amounts of time are known as sensitive receptors. Land uses where air-pollution-sensitive individuals are most likely to spend time include schools and schoolyards, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential communities (sensitive sites or sensitive land uses) (California Air Resource Board [CARB] 2005). The SCAQMD identifies sensitive receptors as residences, schools, playgrounds, childcare centers, long term healthcare facilities, rehabilitation centers, convalescent centers, and retirement homes (SCAQMD 1993). The closest existing sensitive receptors to the project site are single-family residences

located approximately 20 feet to the east of the pipeline alignment and the Sierra Canyon School's upper and lower campuses, which are located approximately 55 feet to the south and 150 feet west of the project site.

1.4 Toxic Air Contaminants

A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute (short term) and/or chronic (long term) non-cancer health effects. A toxic substance released into the air is considered a TAC. Examples include certain aromatic and chlorinated hydrocarbons, diesel particulate matter (DPM), certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources such as automobiles; and area sources such as landfills. Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ system and may be experienced either by acute or chronic exposure to a given TAC.

California's air toxics control program began in 1983 with the passage of the Toxic Air Contaminant Identification and Control Act, Assembly Bill (AB) 1807, better known as the Tanner Bill. The Tanner Bill established a regulatory process for the scientific and public review of individual toxic compounds. When a compound becomes listed as a TAC under the Tanner process, CARB normally establishes minimum statewide emission-control measures to be adopted by air quality management districts and air pollution control districts. By 1992, 18 of the 189 federal hazardous air pollutants had been listed by the CARB as state TACs. In April 1993, CARB added 171 substances to the state program to make the state TAC list equivalent to the federal list of hazardous air pollutants. In 1998, CARB designated diesel engine exhaust particulate matter (DPM) as a TAC (CARB 1998). The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. DPM has an established cancer risk factor and reference exposure level (REL) for long term chronic health hazard impact. No short term acute REL has been established and regulated and is therefore not addressed in this assessment.

The second major component of California's air toxics program, supplementing the Tanner process, was provided by the passage of AB 2588, the Air Toxics "Hot Spots" Information and Assessment Act of 1987. AB 2588 currently regulates over 600 compounds, including all of the Tanner-designated TACs.

In 2000, CARB approved a comprehensive Diesel Risk Reduction Plan to reduce diesel emissions from both new and existing diesel-fueled vehicles and engines. The regulation is anticipated to

result in an 80% decrease in statewide diesel health risk in 2020 compared with the diesel risk in 2000. Additional regulations apply to new trucks and diesel fuel, including the On-Road Heavy Duty Diesel Vehicle (In-Use) Regulation, On-Road Heavy Duty (New) Vehicle Program, In-Use Off-Road Diesel Vehicle Regulation, and New Off-Road Compression-Ignition (Diesel) Engines and Equipment program. These regulations and programs have timetables by which manufacturers must comply and existing operators must upgrade their diesel powered equipment. Several Airborne Toxic Control Measures reduce diesel emissions, including In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.) and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025).

1.5 Cancer Risk

Cancer risk is defined as the increase in lifetime probability (chance) of an individual developing cancer due to exposure to a carcinogenic compound, typically expressed as the increased probability in 1 million. The cancer risk from inhalation of a TAC is estimated by calculating the inhalation (and if applicable, ingestion and dermal) dose in units of milligrams per kilogram body weight per day based on an ambient concentration in units of micrograms per cubic meter ($\mu g/m^3$), breathing rate, and exposure period and multiplying the dose by the inhalation cancer potency factor, expressed as (milligrams/kilogram body weight per day)$^{-1}$. Cancer risks are typically calculated for all carcinogenic TACs and summed to calculate the overall increase in cancer risk to an individual. The calculation procedure assumes that cancer risk is proportional to concentrations at any level of exposure and that risks due to different carcinogens are additive. This approach is generally considered a conservative assumption at low doses and is consistent with the current OEHHA regulatory approach. Exposure to carcinogenic TACs does not imply that the exposed individual would contract cancer; rather, the cancer risk is a probability of developing cancer if other factors (e.g., heredity, exposure to environmental or workplace risks that compromise the immune system, overall health) would result in an increased susceptibility to developing cancer.

1.6 Acute and Chronic Non-Cancer Health Impacts

The non-cancer health impact of an inhaled TAC is measured by the hazard quotient, which is the ratio of the ambient concentration of a TAC in units of $\mu g/m^3$ divided by the reference exposure level (REL), also in units of $\mu g/m^3$. The REL is the concentration at or below which no adverse health effects are anticipated. The REL is typically based on health effects on a particular target organ system, such as the respiratory system, liver, or central nervous system. Hazard quotients of individual TACs are then summed for each target organ system to obtain a hazard index.

2 GUIDANCE AND THRESHOLDS

2.1 Office of Environmental Health Hazard Assessment's Guidance

OEHHA's most recent guidance is the 2015 Risk Assessment Guidelines Manual (OEHHA 2015), which was adopted in 2015 to replace the 2003 HRA Guidance Manual. The Children's Environmental Health Protection Act of 1999 (Senate Bill 25), which requires explicit consideration of infants and children in assessing risks from air toxics, requires revisions of the methods for both non-cancer and cancer risk assessment and of the exposure assumptions in the 2003 HRA Guidance Manual. In response to Senate Bill 25, OEHHA released three technical support documents addressing RELs (OEHHA 2008), cancer potency (OEHHA 2009), and exposure assessment and stochastic analysis (OEHHA 2012) and adopted the 2015 Risk Assessment Guidelines Manual (OEHHA 2015). The technical support document for RELs and continuing work to re-evaluate TACs to ensure adequate protection for infants and children has led to revisions of RELs for approximately 10 chemicals and chemical families. The basic methodology for evaluating acute and chronic health effects using the RELs otherwise remained the same as in the previous guidance manual. Moreover, RELs are designed to protect the most sensitive individuals in the population, including infants and children, by selecting appropriate toxicological data and including margins of safety. Accordingly, the evaluation methods are assumed to protect children and other sensitive subpopulations (groups of more highly susceptible individuals) from adverse health effects in the event of exposure (OEHHA 2008).

The cancer risk methodology described in the exposure assessment and stochastic analysis technical support document and the 2015 Risk Assessment Guidelines Manual accounts for the higher sensitivity of infants and children by applying age-specific daily breathing rates (DBRs) and age-sensitivity factors (ASFs). According to the technical support document, "accounting for effects of early-in life exposure requires accounting for both the increased potency of early in life exposure to carcinogens and the greater exposure on a per [kilogram] body weight that occurs early in life due to behavioral and physiological differences between infants and children, and adults" (OEHHA 2012). In the absence of chemical-specific data, OEHHA recommends a default ASF of 10 for the third trimester to age 2 years and an ASF of 3 for ages 2 through 15 years to account for potential increased sensitivity to carcinogens during childhood (OEHHA 2015). The ASF for adults is 1. In addition to the ASFs, children have higher DBRs per unit of body weight than adults. The OEHHA guidance manual considers the age-specific breathing rates in the cancer risk calculations.

In addition, OEHHA and CARB evaluated information from activity patterns databases to estimate the fraction of time at home (FAH) during the day. From the third trimester to age <2 years, 85% of time is spent at home. From age 2 through <16 years, 72% of time is spent at home. From age

16 years and greater, 73% of time is spent at home. However, for facilities with any school within the 1 in a million or greater isopleth, the OEHHA recommends using an FAH of 100% for children under 16 years old (OEHHA 2015). This recommendation was followed for the project construction HRA based on the location of proximate schools. Cancer risk parameters, such as ASFs, DBRs, exposure period, FAH, and cancer potency factors were based on the values and data recommended by OEHHA as implemented in HARP2. This approach is generally considered a conservative assumption at low doses and is consistent with the current OEHHA regulatory approach. Exposure to carcinogenic TACs does not imply that the exposed individual would contract cancer; rather, the cancer risk is a probability of developing cancer if other factors (e.g., heredity, exposure to environmental or workplace exposures that comprise the immune system, overall health) would result in an increased susceptibility to developing cancer.

2.2 South Coast Air Quality Management District Guidance

The SCAQMD's *Modeling Guidance for AERMOD* (SCAQMD 2018a) provides guidance to perform dispersion modeling for use in HRAs within the South Coast Air Basin. SCAQMD's current thresholds of significance for TAC emissions are presented in Table 1.

Table 1
SCAQMD CEQA TAC Emissions Thresholds

Carcinogens	Noncarcinogens
	Acute or Chronic
Maximally exposed individual risk equals or exceeds 10 in 1 million	Hazard Index equals or exceeds 1.0 for the maximally exposed individual

Source: SCAQMD 2015.
Notes: CEQA = California Environmental Quality Act; SCAQMD = South Coast Air Quality Management District; TAC = toxic air contaminant

3 MODELING METHODOLOGY

3.1 Emission Calculation

Emissions from the construction phase of the project were estimated using the California Emissions Estimator Model (CalEEMod) Version 2016.3.2. Construction scenario assumptions, including phasing, equipment mix, and vehicle trips, were based on information provided by the applicant and CalEEMod default values. All assumptions pertaining to construction emissions, including phasing, equipment, and vehicle trips, are based on Section 3.1 (Air Quality) of the Environmental Impact Report (EIR). Complete detailed construction assumptions are included in Appendix A and are summarized below.

The proposed project would replace the existing De Soto Reservoir with two buried, pre-stressed circular concrete storage tanks immediately north of the existing reservoir site including the installation of inlet and outlet pipes to the existing Rinaldi and De Soto Trunk Lines. For the purposes of modeling, it was assumed that construction of the proposed project would commence early-2024 and would occur over a period of roughly 6.5 years, ending in ending mid-2029. The analysis contained herein is based on the following assumptions (duration of phases is approximate), as shown in Table 2.

Table 2
Construction Phasing Assumptions

Proposed Project Construction Phase	Start Date	End Date	Duration (days)
Excavation	01/01/2023	09/15/2023	185
Pipeline installation	06/01/2023	06/30/2025	543
Storage tank construction	10/01/2023	10/31/2025	545
Flow control station construction	10/01/2024	10/31/2025	284
Finish work/site improvements	10/01/2025	01/15/2026	77
Demolition of De Soto Reservoir	01/01/2027	06/30/2027	129
Pump station construction	07/01/2027	07/20/2029	537

Source: See Appendix A for complete results.

For the analysis, it was generally assumed that heavy construction equipment would be operating at the site for approximately 8 hours per day, 5 days per week (22 days per month), during construction. For the HRA, we are concerned with DPM emitted from exhaust from on-site construction equipment and diesel vehicles. Notably, to include only on-site emissions from diesel haul and vendor trucks, they were conservatively assumed to operate for 0.19-miles on site (1,000 feet).

Unmitigated Emissions

Table 3 presents the estimated unmitigated annual construction exhaust PM_{10} emissions generated during construction of the proposed project. OEHHA guidance indicates that PM_{10} emissions should be used as a surrogate for DPM when evaluating health risks associated with DPM (OEHHA 2015).

Table 3
Unmitigated Project Annual On-Site Construction Emissions – Exhaust Only

Year	PM_{10}
	Tons per year
2023	0.17
2024	0.22
2025	0.15
2026	<0.01
2027	0.10
2028	0.09
2029	0.05
Total	**0.78**

Source: See Appendix A for complete results.
Notes: PM_{10} = coarse particulate matter

As shown in Section 4, HRA Results, the results of the HRA using the default construction emission factors in CalEEMod result in a potentially significant impact. As such, the following mitigation is included to reduce DPM emissions from construction equipment.

Mitigation Measures

AQ-1: To reduce the potential for health risks as a result of construction of the project, the applicant shall:

A. Prior to the start of construction activities, the project applicant, or its designee, shall ensure that all 75 horsepower or greater diesel-powered equipment are powered with CARB certified Tier 4 Interim engines, except where the project applicant establishes to the satisfaction of the City that Tier 4 Interim equipment is not available.

B. All other diesel-powered construction equipment will be classified as Tier 3 or higher, at a minimum, except where the project applicant establishes to the satisfaction of the City that Tier 3 equipment is not available.

In the case where the applicant is unable to secure a piece of equipment that meets the Tier 4 Interim requirement, the applicant may upgrade another piece of equipment to compensate (from Tier 4 Interim to Tier 4 Final). Engine Tier requirements in accordance with this measure shall be incorporated on all construction plans.

Mitigated Emissions

The proposed project emissions incorporating the tiered equipment as outlined in mitigation measure (MM) AQ-1 are shown in Table 4.

Table 4
Mitigated Project Annual On-Site Construction Emissions – Exhaust Only

Year	PM_{10}
	Tons per year
2023	0.02
2024	0.02
2025	0.02
2026	<0.01
2027	0.01
2028	0.01
2029	0.01
Total	**0.09**

Source: See Appendix A for complete results.
Notes: PM_{10} = coarse particulate matter

3.2 Dispersion Model

Air dispersion models calculate the atmospheric transport and fate of pollutants from the emission source. The models calculate the concentration of selected pollutants at specific downwind ground-level points, such as residential or school receptors. The transformation (fate) of an airborne pollutant, its movement with the prevailing winds (transport), its crosswind and vertical movement due to atmospheric turbulence (dispersion), and its removal due to dry and wet deposition are influenced by the pollutant's physical and chemical properties and by meteorological and environmental conditions. Factors such as distance from the source to the receptor, meteorological conditions, intervening land use and terrain, pollutant release characteristics, and background pollutant concentrations affect the predicted air concentration of an air pollutant. Air dispersion models have the capability to take all of these factors into consideration when calculating downwind ground-level pollutant concentrations.

A dispersion modeling analysis of DPM emitted from diesel vehicles and off-road equipment was conducted on the proposed project site for the HRA. The dispersion modeling was performed using AERMOD Version 18081, which is the model United States Environmental Protection Agency (EPA) approved and SCAQMD recommends for atmospheric dispersion of emissions. AERMOD is a steady-state Gaussian plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of surface and

elevated sources, building downwash, and simple and complex terrain. Principal parameters of AERMOD for the project modeling included the following:

- **Dispersion Model:** The air dispersion model used was AERMOD Version 18081, with the Lakes Environmental Software implementation/user interface, AERMOD View Version 9.6.1. A unit emission rate of 1.0 gram per second (g/s) was normalized over the number of volume sources for the AERMOD run to obtain the "X/Q" values. X/Q is a dispersion factor that is the average effluent concentration normalized by source strength, and is used as a way to simplify the representation of emissions from many sources. The maximum concentrations were determined for the 1-hour and Period averaging periods.
- **Meteorological Data:** The latest 5-year meteorological data for the Van Nuys Airport (KVNY) station (Station ID 23130) from SCAQMD were downloaded (SCAQMD 2018b), and then input to AERMOD. For cancer and chronic non-cancer risk assessments, the average cancer and chronic non-cancer risk of all years modeled was used. A wind rose is provided for this station on Figure 1.
- **Urban and Rural Options:** Typically, urban areas have more surface roughness and structures and low-albedo surfaces that absorb more sunlight, and thus, more heat, relative to rural areas. According to SCAQMD guidelines, the urban dispersion option was selected and the Los Angeles County population for year 2010 (9,818,605 persons) input into AERMOD (SCAQMD 2018a).
- **Terrain Characteristics:** Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate. Per SCAQMD guidance, the National Elevation Dataset (NED) dataset with resolution of 1/3 arc-second was used (SCAQMD 2018a).
- **Sensitive Receptors:** This HRA evaluates the risk to existing residential and school receptors located in proximity to the project. A uniform fine 1-kilometer by 1-kilometer Cartesian grid with 25-meter spacing was centered over the project site and converted into discrete receptors to represent proximate receptors.
- **Source Release Operating Scenarios:** Air dispersion modeling of DPM emissions was conducted assuming the equipment would operate in accordance with the modeling scenario estimated in CalEEMod (Appendix A). The DPM emissions were modeled as a series of 104 volume sources across the project site where construction activities would occur, with a release height of 5 meters and initial vertical dimension of 1.4 meters.

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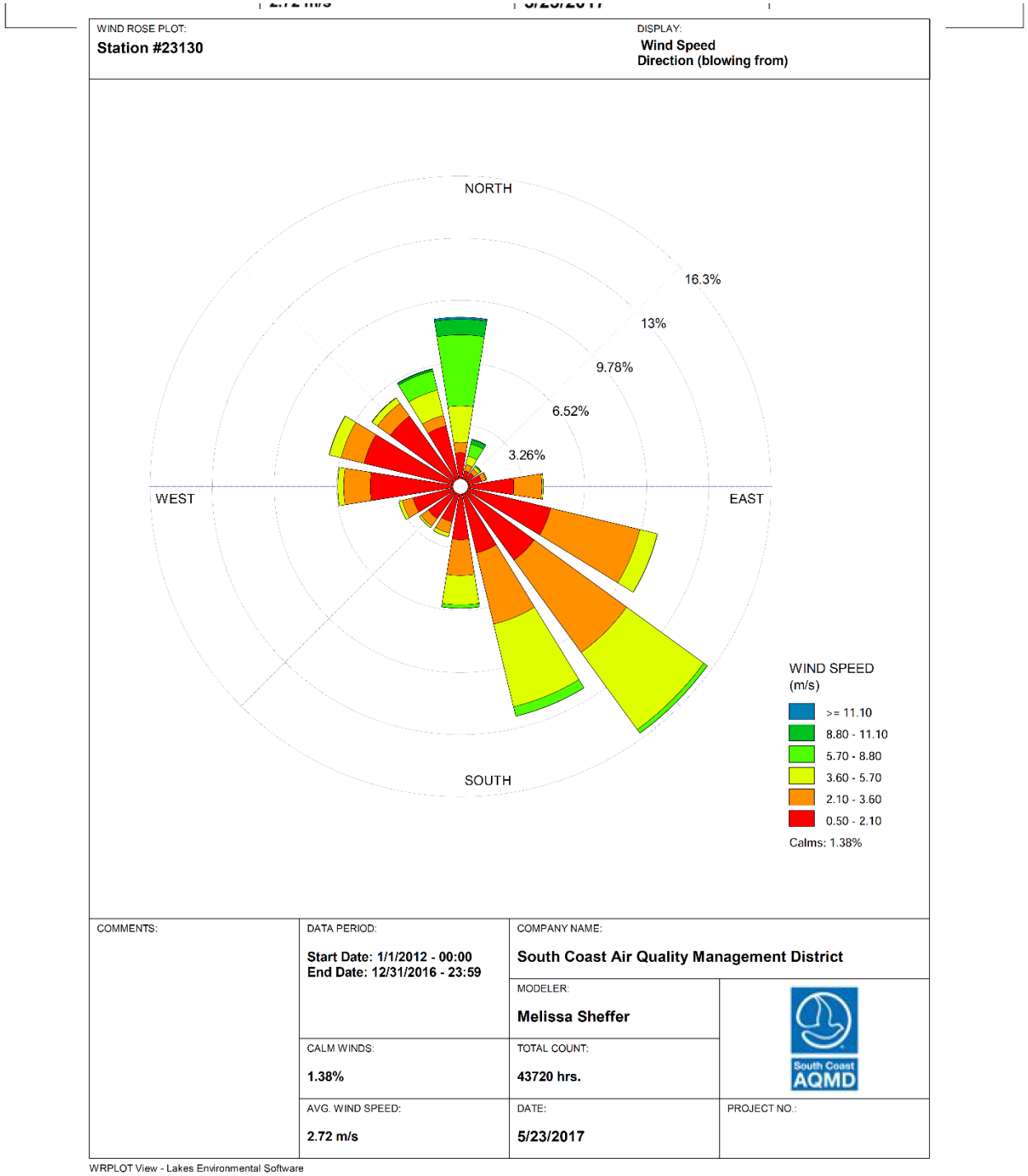
Figure 1
Wind Rose of Meteorological Data – KVNY Station



Source: SCAQMD 2018b.

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3.3 Health Risk Assessment Methodology

In March 2015, the OEHHA approved the 2015 Risk Assessment Guidelines Manual (OEHHA 2015). SCAQMD requires that all HRAs prepared for CEQA documents follow SCAQMD policies in conjunction with the 2015 Risk Assessment Guidelines Manual. Cancer and non-cancer health risk calculations were performed for the project using ground-level unity emission concentration (X/Q) input from AERMOD. This modeling established the emissions dispersion field to the existing sensitive receptors from atmospheric influence of the project construction DPM emissions. Plot files generated in AERMOD were then imported into HARP2, with ground level concentrations determined by multiplication of emission rates and X/Q values for the total volume sources of emissions. HARP2 then assessed resulting cancer and non-cancer risk at the existing receptors from exposure to TAC emissions using the OEHHA Derived calculation method.

For the purposes of this assessment, given the less-than-lifetime exposure period, and the higher breathing rates and sensitivity of children to TACs, the cancer risk calculation assumes that the exposure would affect children early in their lives. For the residential health risk, the HRA assumes exposure would start in the 3rd trimester of pregnancy and occur 8 hours per day, 5 days per week, for 7 years. For the school receptor health risk, the HRA assumes exposure would start at age 5 and occur 8 hours per day, 5 days per week, for 7 years.

4 HEALTH RISK RESULTS

Table 5 shows the maximum cancer and chronic health risks at the maximally exposed residential and school receptors from project construction. AERMOD and HARP2 outputs are in Appendix B.

Table 5
Summary of Maximum Cancer and Chronic Health Risks - Unmitigated

Impact Analysis	Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximally Exposed Individual Resident					
Construction HRA	Cancer Risk	Per Million	40	10	**Potentially Significant**
	Chronic Hazard Index	Index Value	0.02	1.0	Less than Significant
Maximally Exposed School Receptor					
Construction HRA	Cancer Risk	Per Million	74	10	**Potentially Significant**
	Chronic Hazard Index	Index Value	0.06	1.0	Less than Significant

Source: See Appendix B for complete results.
Notes: CEQA = California Environmental Quality Act; HRA = Health Risk Assessment

As shown in Table 5, the HRA results from the unmitigated scenario show cancer risks exceeding the 10 in 1 million threshold and thus a potentially significant impact at the maximally exposed individual residential and school receptors. These potentially significant health risk impacts triggered the requirement of MM-AQ-1 in order to reduce project construction-generated DPM emissions to the extent feasible. The HRA results after incorporation of MM-AQ-1 are presented in Table 6.

Table 6
Summary of Maximum Cancer and Chronic Health Risks - Mitigated

Impact Analysis	Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximally Exposed Individual Resident					
Construction HRA	Cancer Risk	Per Million	1.5	10	Less than Significant
	Chronic Hazard Index	Index Value	0.002	1.0	Less than Significant
Maximally Exposed School Receptor					
Construction HRA	Cancer Risk	Per Million	8.6	10	Less than Significant
	Chronic Hazard Index	Index Value	0.007	1.0	Less than Significant

Source: See Appendix B for complete results.
Notes: CEQA = California Environmental Quality Act; HRA = Health Risk Assessment

5 CONCLUSIONS

The results determined in this analysis reflect reasonable estimates of source emissions and exhaust characteristics, available meteorological data near the project site, and the use of currently approved air quality models. Given the limits of available tools for such an analysis, the actual impacts may vary from the estimates in this assessment. However, the combined use of the AERMOD dispersion model and the health impact calculations required by OEHHA and SCAQMD tend to overpredict impacts, such that they produce conservative (i.e., health-protective) results. For this reason, the estimated cancer risks and non-cancer hazard indices reported in this analysis are likely upper-bound estimates for potential exposure to project-related emissions. In addition, the estimated cancer risks and non-cancer hazard indices represent the maximum exposed individual resident and school child and do not represent the risk over a broad area. The actual risks of cancer or non-cancer effects from the project are likely to be lower than presented herein.

Based on this analysis, project construction would result in potential chronic health risk at the maximally exposed residential and school receptors below the SCAQMD threshold without the need for mitigation. However, potential cancer health risk impacts at the proximate existing residential receptors school would exceed the SCAQMD threshold. With implementation of MM-AQ-1, potential cancer risk at the maximally exposed residential and school receptor would be reduced to a less-than-significant level.

6 REFERENCES

13 CCR 2025. Final Regulation Order to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen, and Other Pollutants from In-Use Heavy-Duty Diesel-Fueled Vehicles.

14 CCR 15000–15387 and Appendices A–L. Guidelines for Implementation of the California Environmental Quality Act, as amended.

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APPENDIX A

Emission Calculations

CalEEMod Version: CalEEMod.2016.3.2

Date: 10/9/2019 10:15 AM

De Soto Storage Tanks Project
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	5.00	User Defined Unit	5.00	217,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - De Soto Storage Tanks Project. SCAQMD.
Land Use - Project consists of 3,270-linear-foot of pipeline and a 20 MG storage tank
Construction Phase - Construction would occur January 2023 through July 2029.
Off-road Equipment - Updated equipment per applicant.
Off-road Equipment - Equipment use base on information from applicant.
Off-road Equipment - Equipment use base on information from applicant.
Off-road Equipment - Equipment use base on information from applicant.
Off-road Equipment - Equipment use base on information from applicant.
Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - No construction equipment assumed.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

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Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Off-road Equipment - Equipment use base on information from applicant.

Trips and VMT - Updated trips per applicant. No worker trips, changed vendor and haul truck trip length 0.19-mile.

On-road Fugitive Dust -

Demolition - 559 tons of debris.

Grading - 340,000 CY exported offsite.

Construction Off-road Equipment Mitigation - Comply with Rule 403: water three times per day vehicle speeds of 15 mph. Use of Tier 4 interim.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
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tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
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tblConstructionPhase	NumDays	230.00	284.00
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tblConstructionPhase	NumDays	230.00	23.00
tblConstructionPhase	NumDays	230.00	537.00
tblConstructionPhase	NumDays	230.00	545.00
tblConstructionPhase	NumDays	230.00	44.00
tblConstructionPhase	NumDays	20.00	129.00
tblConstructionPhase	NumDays	8.00	185.00
tblConstructionPhase	NumDays	8.00	19.00
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tblConstructionPhase	NumDays	8.00	27.00
tblConstructionPhase	NumDays	8.00	55.00
tblConstructionPhase	NumDays	8.00	185.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
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tblTripsAndVMT	HaulingTripLength	20.00	0.19
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tblTripsAndVMT	WorkerTripNumber	91.00	0.00

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tblTripsAndVMT	WorkerTripNumber	91.00	0.00
tblTripsAndVMT	WorkerTripNumber	23.00	0.00
tblTripsAndVMT	WorkerTripNumber	91.00	0.00
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tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblTripsAndVMT	WorkerTripNumber	28.00	0.00
tblTripsAndVMT	WorkerTripNumber	3.00	0.00
tblTripsAndVMT	WorkerTripNumber	91.00	0.00
tblTripsAndVMT	WorkerTripNumber	91.00	0.00
tblTripsAndVMT	WorkerVehicleClass		LD_Mix

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.4361	5.5938	4.8427	0.0107	0.0672	0.1727	0.2399	0.0334	0.1646	0.1980	0.0000	959.1074	959.1074	0.1816	0.0000	963.6464
2024	0.5658	5.5212	6.8070	0.0123	2.5600e-003	0.2229	0.2255	7.5000e-004	0.2140	0.2148	0.0000	1,066.8273	1,066.8273	0.1852	0.0000	1,071.4562
2025	0.3999	3.9142	4.5278	8.8700e-003	0.2231	0.1513	0.3743	0.1126	0.1444	0.2570	0.0000	772.2099	772.2099	0.1376	0.0000	775.6505
2026	8.6600e-003	0.0937	0.0668	1.6000e-004	0.0536	3.6200e-003	0.0572	0.0204	3.3400e-003	0.0238	0.0000	14.2564	14.2564	4.4900e-003	0.0000	14.3687
2027	0.2495	2.4334	2.2870	4.7000e-003	6.1200e-003	0.0985	0.1046	9.5000e-004	0.0923	0.0932	0.0000	410.6914	410.6914	0.1003	0.0000	413.1989
2028	0.2040	2.1751	1.5701	3.7900e-003	2.6000e-004	0.0857	0.0859	8.0000e-005	0.0789	0.0789	0.0000	332.6728	332.6728	0.1056	0.0000	335.3137
2029	0.1138	1.2129	0.8755	2.1100e-003	1.5000e-004	0.0478	0.0479	4.0000e-005	0.0440	0.0440	0.0000	185.5025	185.5025	0.0589	0.0000	186.9750
Maximum	**0.5658**	**5.5938**	**6.8070**	**0.0123**	**0.2231**	**0.2229**	**0.3743**	**0.1126**	**0.2140**	**0.2570**	**0.0000**	**1,066.8273**	**1,066.8273**	**0.1852**	**0.0000**	**1,071.4562**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1940	4.9779	5.6711	0.0107	0.0292	0.0188	0.0480	0.0139	0.0188	0.0327	0.0000	959.1065	959.1065	0.1816	0.0000	963.6456
2024	0.2433	4.9223	7.7728	0.0123	2.5600e-003	0.0248	0.0274	7.5000e-004	0.0248	0.0256	0.0000	1,066.8261	1,066.8261	0.1852	0.0000	1,071.4550
2025	0.1655	3.3347	5.4038	8.8700e-003	0.0894	0.0167	0.1060	0.0446	0.0166	0.0612	0.0000	772.2091	772.2091	0.1376	0.0000	775.6496
2026	2.9300e-003	0.0560	0.0952	1.6000e-004	0.0209	5.3000e-004	0.0214	7.9700e-003	5.3000e-004	8.4900e-003	0.0000	14.2564	14.2564	4.4900e-003	0.0000	14.3687
2027	0.0866	1.6181	2.8648	4.7000e-003	2.4700e-003	0.0104	0.0129	4.0000e-004	0.0104	0.0108	0.0000	410.6909	410.6909	0.1003	0.0000	413.1984
2028	0.0684	1.2855	2.2410	3.7900e-003	2.6000e-004	0.0124	0.0127	8.0000e-005	0.0124	0.0125	0.0000	332.6724	332.6724	0.1056	0.0000	335.3133
2029	0.0381	0.7168	1.2497	2.1100e-003	1.5000e-004	6.9200e-003	7.0600e-003	4.0000e-005	6.9200e-003	6.9600e-003	0.0000	185.5023	185.5023	0.0589	0.0000	186.9748
Maximum	**0.2433**	**4.9779**	**7.7728**	**0.0123**	**0.0894**	**0.0248**	**0.1060**	**0.0446**	**0.0248**	**0.0612**	**0.0000**	**1,066.8261**	**1,066.8261**	**0.1852**	**0.0000**	**1,071.4550**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**59.61**	**19.25**	**-20.60**	**0.00**	**58.92**	**88.43**	**79.26**	**59.74**	**87.79**	**82.60**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Excavation 1	Grading	1/1/2023	9/15/2023	5	185	Entire duration
2	Excavation 2	Grading	1/1/2023	1/26/2023	5	19	Equipment use 10% of phase
3	Excavation 3	Grading	1/1/2023	2/7/2023	5	27	Equipment use 15% of phase
4	Excavation 4	Grading	1/1/2023	3/17/2023	5	55	Equipment use 30% of phase
5	Excavation 5	Grading	1/1/2023	9/15/2023	5	185	For haul trips
6	Pipeline Installation 1	Trenching	6/1/2023	6/30/2025	5	543	Entire duration
7	Pipeline Installation 2	Trenching	6/1/2023	8/15/2023	5	54	Equipment use 10% of phase
8	Storage Tank Construction 1	Building Construction	10/1/2023	10/31/2025	5	545	Entire duration
9	Storage Tank Construction 2	Building Construction	10/1/2023	11/30/2023	5	44	First two months
10	Storage Tank Construction 3	Building Construction	10/1/2023	10/16/2023	5	11	Equipment use 2% of phase
11	Storage Tank Construction 4	Building Construction	10/1/2023	11/7/2023	5	27	Equipment use 5% of phase
12	Storage Tank Construction 5	Building Construction	10/1/2023	4/24/2025	5	409	Equipment use 75% of phase
13	Flow Control Station 1	Building Construction	10/1/2024	10/31/2025	5	284	Entire duration
14	Flow Control Station 2	Building Construction	10/1/2024	10/10/2024	5	8	8 days of phase
15	Flow Control Station 3	Building Construction	10/1/2024	10/18/2024	5	14	Two weeks or 5% of phase
16	Flow Control Station 4	Building Construction	10/1/2024	12/31/2024	5	66	Equipment use for 3 months
17	Flow Control Station 5	Building Construction	10/1/2024	11/29/2024	5	44	Equipment use for 2 months
18	Flow Control Station 6	Building Construction	10/1/2024	11/7/2024	5	28	Equipment use 10% of phase
19	Flow Control Station 7	Building Construction	10/1/2024	12/18/2024	5	57	Equipment use 20% of phase
20	Storage Tank Construction 6	Building Construction	9/1/2025	10/31/2025	5	45	Last two months
21	Finish Grading/Site Improvements	Grading	10/1/2025	1/15/2026	5	77	
22	Storage Tank Construction 7	Building Construction	10/1/2025	10/31/2025	5	23	Last month
23	Demoltion	Demolition	1/1/2027	6/30/2027	5	129	Demolition of existing tanks
24	Pump Station Construction	Building Construction	7/1/2027	7/20/2029	5	537	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Excavation 1	Excavators	1	8.00	158	0.38
Excavation 1	Generator Sets	1	8.00	84	0.74
Excavation 1	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Excavation 2	Cranes	1	6.00	231	0.29
Excavation 2	Rubber Tired Dozers	1	8.00	247	0.40
Excavation 2	Welders	1	8.00	46	0.45
Excavation 3	Bore/Drill Rigs	1	8.00	221	0.50
Excavation 4	Bore/Drill Rigs	1	8.00	221	0.50
Excavation 4	Cement and Mortar Mixers	1	8.00	9	0.56
Excavation 4	Pumps	2	8.00	84	0.74
Pipeline Installation 1	Air Compressors	1	8.00	78	0.48
Pipeline Installation 1	Cranes	1	6.00	231	0.29
Pipeline Installation 1	Excavators	1	8.00	158	0.38
Pipeline Installation 1	Generator Sets	1	8.00	84	0.74
Pipeline Installation 1	Other Construction Equipment	2	6.00	172	0.42
Pipeline Installation 1	Pumps	1	8.00	84	0.74
Pipeline Installation 1	Rough Terrain Forklifts	1	8.00	100	0.40
Pipeline Installation 1	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Pipeline Installation 1	Welders	1	8.00	46	0.45
Pipeline Installation 2	Bore/Drill Rigs	1	8.00	221	0.50
Storage Tank Construction 1	Cranes	1	6.00	231	0.29
Storage Tank Construction 1	Generator Sets	1	8.00	84	0.74
Storage Tank Construction 1	Pumps	3	8.00	84	0.74
Storage Tank Construction 2	Graders	1	8.00	187	0.41

Storage Tank Construction 2	Plate Compactors	1	4.00	8	0.43
Storage Tank Construction 2	Rollers	1	4.00	80	0.38
Storage Tank Construction 2	Rubber Tired Dozers	1	8.00	247	0.40
Storage Tank Construction 2	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Storage Tank Construction 3	Pressure Washers	1	4.00	13	0.30
Storage Tank Construction 4	Air Compressors	1	8.00	78	0.48
Storage Tank Construction 4	Other Construction Equipment	1	8.00	172	0.42
Storage Tank Construction 4	Skid Steer Loaders	1	8.00	65	0.37
Storage Tank Construction 4	Welders	1	8.00	46	0.45
Storage Tank Construction 5	Rough Terrain Forklifts	1	8.00	100	0.40
Flow Control Station 1	Cranes	1	8.00	231	0.29
Flow Control Station 2	Pumps	2	8.00	84	0.74
Flow Control Station 3	Pressure Washers	1	4.00	13	0.30
Flow Control Station 3	Welders	1	8.00	46	0.45
Flow Control Station 4	Rough Terrain Forklifts	1	8.00	100	0.40
Flow Control Station 5	Excavators	1	8.00	158	0.38
Flow Control Station 5	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Flow Control Station 6	Rollers	1	4.00	80	0.38
Flow Control Station 7	Generator Sets	1	8.00	84	0.74
Flow Control Station 7	Plate Compactors	1	4.00	8	0.43
Flow Control Station 7	Skid Steer Loaders	1	8.00	65	0.37
Flow Control Station 7	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Storage Tank Construction 6	Other Construction Equipment	1	8.00	172	0.42
Finish Grading/Site Improvements	Cranes	1	6.00	231	0.29
Finish Grading/Site Improvements	Graders	1	8.00	187	0.41
Finish Grading/Site Improvements	Pavers	1	4.00	130	0.42
Finish Grading/Site Improvements	Plate Compactors	1	4.00	8	0.43
Finish Grading/Site Improvements	Rollers	1	4.00	80	0.38
Finish Grading/Site Improvements	Rubber Tired Dozers	1	8.00	247	0.40
Finish Grading/Site Improvements	Skid Steer Loaders	1	8.00	65	0.37
Finish Grading/Site Improvements	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Storage Tank Construction 7	Cement and Mortar Mixers	1	6.00	9	0.56
Storage Tank Construction 7	Pumps	2	8.00	84	0.74
Demoltion	Air Compressors	1	8.00	78	0.48
Demoltion	Concrete/Industrial Saws	1	6.00	81	0.73
Demoltion	Cranes	1	6.00	231	0.29
Demoltion	Crushing/Proc. Equipment	1	6.00	85	0.78
Demoltion	Generator Sets	1	8.00	84	0.74
Demoltion	Rough Terrain Forklifts	1	8.00	100	0.40
Demoltion	Rubber Tired Dozers	1	8.00	247	0.40
Demoltion	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Pump Station Construction	Cranes	1	6.00	231	0.29
Pump Station Construction	Graders	1	8.00	187	0.41
Pump Station Construction	Pavers	1	4.00	130	0.42
Pump Station Construction	Plate Compactors	1	4.00	8	0.43
Pump Station Construction	Rollers	1	4.00	80	0.38
Pump Station Construction	Rubber Tired Dozers	1	8.00	247	0.40
Pump Station Construction	Skid Steer Loaders	1	8.00	65	0.37
Pump Station Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Excavation 1	4	0.00	10.00	12,565.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Excavation 2	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Excavation 3	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Excavation 4	4	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Excavation 5	0	0.00	0.00	30,155.00	14.70	6.90	0.19	LD_Mix	HDT_Mix	HHDT
Pipeline Installation 1	11	0.00	30.00	3,600.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Pipeline Installation 2	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 1	5	0.00	20.00	20.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 2	5	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 3	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 4	4	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 5	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 1	1	0.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 2	2	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 3	2	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 4	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 5	2	0.00	0.00	1,600.00	14.70	6.90	0.19	LD_Mix	HDT_Mix	HHDT
Flow Control Station 6	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flow Control Station 7	4	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 6	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finish Grading/Site Improvements	8	0.00	16.00	0.00	14.70	0.19	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 7	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Storage Tank Construction 7	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demoltion	9	0.00	0.00	80.00	14.70	6.90	0.19	LD_Mix	HDT_Mix	HHDT
Pump Station Construction	8	0.00	10.00	40.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Excavation 1 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0738	0.6785	1.0536	1.6600e-003		0.0329	0.0329		0.0312	0.0312	0.0000	144.8612	144.8612	0.0322	0.0000	145.6672
Total	**0.0738**	**0.6785**	**1.0536**	**1.6600e-003**	**0.0000**	**0.0329**	**0.0329**	**0.0000**	**0.0312**	**0.0312**	**0.0000**	**144.8612**	**144.8612**	**0.0322**	**0.0000**	**145.6672**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.2300e-003	0.4823	0.0667	6.6000e-004	1.1600e-003	1.5000e-004	1.3100e-003	3.3000e-004	1.4000e-004	4.7000e-004	0.0000	64.4444	64.4444	8.1100e-003	0.0000	64.6472
Vendor	9.5000e-004	0.0469	0.0108	5.0000e-005	1.8000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	5.2290	5.2290	6.5000e-004	0.0000	5.2453
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.1800e-003**	**0.5292**	**0.0775**	**7.1000e-004**	**1.3400e-003**	**1.6000e-004**	**1.5100e-003**	**3.9000e-004**	**1.5000e-004**	**5.4000e-004**	**0.0000**	**69.6734**	**69.6734**	**8.7600e-003**	**0.0000**	**69.8925**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0299	0.6782	1.1709	1.6600e-003		2.5300e-003	2.5300e-003		2.5300e-003	2.5300e-003	0.0000	144.8610	144.8610	0.0322	0.0000	145.6671
Total	**0.0299**	**0.6782**	**1.1709**	**1.6600e-003**	**0.0000**	**2.5300e-003**	**2.5300e-003**	**0.0000**	**2.5300e-003**	**2.5300e-003**	**0.0000**	**144.8610**	**144.8610**	**0.0322**	**0.0000**	**145.6671**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.2300e-003	0.4823	0.0667	6.6000e-004	1.1600e-003	1.5000e-004	1.3100e-003	3.3000e-004	1.4000e-004	4.7000e-004	0.0000	64.4444	64.4444	8.1100e-003	0.0000	64.6472
Vendor	9.5000e-004	0.0469	0.0108	5.0000e-005	1.8000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	5.2290	5.2290	6.5000e-004	0.0000	5.2453
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.1800e-003**	**0.5292**	**0.0775**	**7.1000e-004**	**1.3400e-003**	**1.6000e-004**	**1.5100e-003**	**3.9000e-004**	**1.5000e-004**	**5.4000e-004**	**0.0000**	**69.6734**	**69.6734**	**8.7600e-003**	**0.0000**	**69.8925**

3.3 Excavation 2 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0623	0.0000	0.0623	0.0320	0.0000	0.0320	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.1084	0.0585	1.5000e-004		4.7100e-003	4.7100e-003		4.3700e-003	4.3700e-003	0.0000	12.5274	12.5274	3.6700e-003	0.0000	12.6191
Total	**0.0114**	**0.1084**	**0.0585**	**1.5000e-004**	**0.0623**	**4.7100e-003**	**0.0670**	**0.0320**	**4.3700e-003**	**0.0364**	**0.0000**	**12.5274**	**12.5274**	**3.6700e-003**	**0.0000**	**12.6191**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0243	0.0000	0.0243	0.0125	0.0000	0.0125	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4200e-003	0.0457	0.0809	1.5000e-004		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	12.5274	12.5274	3.6700e-003	0.0000	12.6191
Total	**4.4200e-003**	**0.0457**	**0.0809**	**1.5000e-004**	**0.0243**	**7.2000e-004**	**0.0250**	**0.0125**	**7.2000e-004**	**0.0132**	**0.0000**	**12.5274**	**12.5274**	**3.6700e-003**	**0.0000**	**12.6191**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Excavation 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-003	0.0275	0.0274	1.3000e-004		8.9000e-004	8.9000e-004		8.2000e-004	8.2000e-004	0.0000	11.2109	11.2109	3.6300e-003	0.0000	11.3016
Total	**2.9000e-003**	**0.0275**	**0.0274**	**1.3000e-004**	**0.0000**	**8.9000e-004**	**8.9000e-004**	**0.0000**	**8.2000e-004**	**8.2000e-004**	**0.0000**	**11.2109**	**11.2109**	**3.6300e-003**	**0.0000**	**11.3016**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-003	0.0339	0.0684	1.3000e-004		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	11.2109	11.2109	3.6300e-003	0.0000	11.3016
Total	**2.1000e-003**	**0.0339**	**0.0684**	**1.3000e-004**	**0.0000**	**2.1000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**2.1000e-004**	**0.0000**	**11.2109**	**11.2109**	**3.6300e-003**	**0.0000**	**11.3016**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Excavation 4 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0256	0.2176	0.2693	6.4000e-004		9.6300e-003	9.6300e-003		9.4800e-003	9.4800e-003	0.0000	55.1838	55.1838	8.9400e-003	0.0000	55.4072
Total	**0.0256**	**0.2176**	**0.2693**	**6.4000e-004**	**0.0000**	**9.6300e-003**	**9.6300e-003**	**0.0000**	**9.4800e-003**	**9.4800e-003**	**0.0000**	**55.1838**	**55.1838**	**8.9400e-003**	**0.0000**	**55.4072**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0109	0.1982	0.3624	6.4000e-004		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	55.1837	55.1837	8.9400e-003	0.0000	55.4072
Total	**0.0109**	**0.1982**	**0.3624**	**6.4000e-004**	**0.0000**	**9.1000e-004**	**9.1000e-004**	**0.0000**	**9.1000e-004**	**9.1000e-004**	**0.0000**	**55.1837**	**55.1837**	**8.9400e-003**	**0.0000**	**55.4072**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Excavation 5 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0174	1.1575	0.1601	1.5800e-003	2.7800e-003	3.6000e-004	3.1400e-003	7.9000e-004	3.4000e-004	1.1300e-003	0.0000	154.6615	154.6615	0.0195	0.0000	155.1482
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0174**	**1.1575**	**0.1601**	**1.5800e-003**	**2.7800e-003**	**3.6000e-004**	**3.1400e-003**	**7.9000e-004**	**3.4000e-004**	**1.1300e-003**	**0.0000**	**154.6615**	**154.6615**	**0.0195**	**0.0000**	**155.1482**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0174	1.1575	0.1601	1.5800e-003	2.7800e-003	3.6000e-004	3.1400e-003	7.9000e-004	3.4000e-004	1.1300e-003	0.0000	154.6615	154.6615	0.0195	0.0000	155.1482
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0174**	**1.1575**	**0.1601**	**1.5800e-003**	**2.7800e-003**	**3.6000e-004**	**3.1400e-003**	**7.9000e-004**	**3.4000e-004**	**1.1300e-003**	**0.0000**	**154.6615**	**154.6615**	**0.0195**	**0.0000**	**155.1482**

3.7 Pipeline Installation 1 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1921	1.7225	2.1945	3.6600e-003		0.0816	0.0816		0.0775	0.0775	0.0000	315.9370	315.9370	0.0684	0.0000	317.6461
Total	**0.1921**	**1.7225**	**2.1945**	**3.6600e-003**		**0.0816**	**0.0816**		**0.0775**	**0.0775**	**0.0000**	**315.9370**	**315.9370**	**0.0684**	**0.0000**	**317.6461**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.8000e-004	0.0387	5.3500e-003	5.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	5.1686	5.1686	6.5000e-004	0.0000	5.1848
Vendor	2.3400e-003	0.1156	0.0265	1.3000e-004	4.5000e-004	3.0000e-005	4.9000e-004	1.4000e-004	3.0000e-005	1.7000e-004	0.0000	12.8887	12.8887	1.6100e-003	0.0000	12.9290
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.9200e-003**	**0.1543**	**0.0319**	**1.8000e-004**	**7.0000e-004**	**4.0000e-005**	**7.5000e-004**	**2.1000e-004**	**4.0000e-005**	**2.5000e-004**	**0.0000**	**18.0572**	**18.0572**	**2.2600e-003**	**0.0000**	**18.1138**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0786	1.4648	2.4944	3.6600e-003		9.4700e-003	9.4700e-003		9.4700e-003	9.4700e-003	0.0000	315.9366	315.9366	0.0684	0.0000	317.6457
Total	**0.0786**	**1.4648**	**2.4944**	**3.6600e-003**		**9.4700e-003**	**9.4700e-003**		**9.4700e-003**	**9.4700e-003**	**0.0000**	**315.9366**	**315.9366**	**0.0684**	**0.0000**	**317.6457**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.8000e-004	0.0387	5.3500e-003	5.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	5.1686	5.1686	6.5000e-004	0.0000	5.1848
Vendor	2.3400e-003	0.1156	0.0265	1.3000e-004	4.5000e-004	3.0000e-005	4.9000e-004	1.4000e-004	3.0000e-005	1.7000e-004	0.0000	12.8887	12.8887	1.6100e-003	0.0000	12.9290
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.9200e-003**	**0.1543**	**0.0319**	**1.8000e-004**	**7.0000e-004**	**4.0000e-005**	**7.5000e-004**	**2.1000e-004**	**4.0000e-005**	**2.5000e-004**	**0.0000**	**18.0572**	**18.0572**	**2.2600e-003**	**0.0000**	**18.1138**

3.7 Pipeline Installation 1 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3124	2.7802	3.7776	6.3000e-003		0.1255	0.1255		0.1192	0.1192	0.0000	544.6276	544.6276	0.1171	0.0000	547.5560
Total	**0.3124**	**2.7802**	**3.7776**	**6.3000e-003**		**0.1255**	**0.1255**		**0.1192**	**0.1192**	**0.0000**	**544.6276**	**544.6276**	**0.1171**	**0.0000**	**547.5560**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.8000e-004	0.0661	9.1300e-003	9.0000e-005	2.7000e-004	2.0000e-005	2.9000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	8.8097	8.8097	1.0800e-003	0.0000	8.8368
Vendor	3.8500e-003	0.1985	0.0434	2.3000e-004	7.8000e-004	5.0000e-005	8.3000e-004	2.4000e-004	5.0000e-005	2.8000e-004	0.0000	21.9935	21.9935	2.6900e-003	0.0000	22.0606
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.8300e-003**	**0.2646**	**0.0525**	**3.2000e-004**	**1.0500e-003**	**7.0000e-005**	**1.1200e-003**	**3.1000e-004**	**7.0000e-005**	**3.7000e-004**	**0.0000**	**30.8032**	**30.8032**	**3.7700e-003**	**0.0000**	**30.8974**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1331	2.5196	4.2977	6.3000e-003		0.0153	0.0153		0.0153	0.0153	0.0000	544.6270	544.6270	0.1171	0.0000	547.5553
Total	**0.1331**	**2.5196**	**4.2977**	**6.3000e-003**		**0.0153**	**0.0153**		**0.0153**	**0.0153**	**0.0000**	**544.6270**	**544.6270**	**0.1171**	**0.0000**	**547.5553**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.8000e-004	0.0661	9.1300e-003	9.0000e-005	2.7000e-004	2.0000e-005	2.9000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	8.8097	8.8097	1.0800e-003	0.0000	8.8368
Vendor	3.8500e-003	0.1985	0.0434	2.3000e-004	7.8000e-004	5.0000e-005	8.3000e-004	2.4000e-004	5.0000e-005	2.8000e-004	0.0000	21.9935	21.9935	2.6900e-003	0.0000	22.0606
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.8300e-003**	**0.2646**	**0.0525**	**3.2000e-004**	**1.0500e-003**	**7.0000e-005**	**1.1200e-003**	**3.1000e-004**	**7.0000e-005**	**3.7000e-004**	**0.0000**	**30.8032**	**30.8032**	**3.7700e-003**	**0.0000**	**30.8974**

3.7 Pipeline Installation 1 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1427	1.2504	1.8537	3.1000e-003		0.0532	0.0532		0.0505	0.0505	0.0000	268.2276	268.2276	0.0573	0.0000	269.6604
Total	**0.1427**	**1.2504**	**1.8537**	**3.1000e-003**		**0.0532**	**0.0532**		**0.0505**	**0.0505**	**0.0000**	**268.2276**	**268.2276**	**0.0573**	**0.0000**	**269.6604**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.7000e-004	0.0322	4.4700e-003	4.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	4.2879	4.2879	5.2000e-004	0.0000	4.3007
Vendor	1.8200e-003	0.0973	0.0205	1.1000e-004	3.9000e-004	2.0000e-005	4.1000e-004	1.2000e-004	2.0000e-005	1.4000e-004	0.0000	10.7151	10.7151	1.2800e-003	0.0000	10.7470
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.2900e-003**	**0.1295**	**0.0249**	**1.5000e-004**	**6.4000e-004**	**3.0000e-005**	**6.7000e-004**	**1.8000e-004**	**3.0000e-005**	**2.1000e-004**	**0.0000**	**15.0029**	**15.0029**	**1.8000e-003**	**0.0000**	**15.0477**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0645	1.2381	2.1153	3.1000e-003		7.1200e-003	7.1200e-003		7.1200e-003	7.1200e-003	0.0000	268.2272	268.2272	0.0573	0.0000	269.6601
Total	**0.0645**	**1.2381**	**2.1153**	**3.1000e-003**		**7.1200e-003**	**7.1200e-003**		**7.1200e-003**	**7.1200e-003**	**0.0000**	**268.2272**	**268.2272**	**0.0573**	**0.0000**	**269.6601**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.7000e-004	0.0322	4.4700e-003	4.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	4.2879	4.2879	5.2000e-004	0.0000	4.3007
Vendor	1.8200e-003	0.0973	0.0205	1.1000e-004	3.9000e-004	2.0000e-005	4.1000e-004	1.2000e-004	2.0000e-005	1.4000e-004	0.0000	10.7151	10.7151	1.2800e-003	0.0000	10.7470
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.2900e-003**	**0.1295**	**0.0249**	**1.5000e-004**	**6.4000e-004**	**3.0000e-005**	**6.7000e-004**	**1.8000e-004**	**3.0000e-005**	**2.1000e-004**	**0.0000**	**15.0029**	**15.0029**	**1.8000e-003**	**0.0000**	**15.0477**

3.8 Pipeline Installation 2 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8100e-003	0.0551	0.0549	2.6000e-004		1.7800e-003	1.7800e-003		1.6400e-003	1.6400e-003	0.0000	22.4219	22.4219	7.2500e-003	0.0000	22.6032
Total	**5.8100e-003**	**0.0551**	**0.0549**	**2.6000e-004**		**1.7800e-003**	**1.7800e-003**		**1.6400e-003**	**1.6400e-003**	**0.0000**	**22.4219**	**22.4219**	**7.2500e-003**	**0.0000**	**22.6032**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2100e-003	0.0679	0.1368	2.6000e-004		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	22.4219	22.4219	7.2500e-003	0.0000	22.6031
Total	**4.2100e-003**	**0.0679**	**0.1368**	**2.6000e-004**		**4.2000e-004**	**4.2000e-004**		**4.2000e-004**	**4.2000e-004**	**0.0000**	**22.4219**	**22.4219**	**7.2500e-003**	**0.0000**	**22.6031**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.9 Storage Tank Construction 1 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0505	0.4497	0.5272	1.0000e-003		0.0212	0.0212		0.0209	0.0209	0.0000	85.8339	85.8339	7.3300e-003	0.0000	86.0171
Total	**0.0505**	**0.4497**	**0.5272**	**1.0000e-003**		**0.0212**	**0.0212**		**0.0209**	**0.0209**	**0.0000**	**85.8339**	**85.8339**	**7.3300e-003**	**0.0000**	**86.0171**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	9.0000e-005	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0122	0.0122	0.0000	0.0000	0.0123
Vendor	6.7000e-004	0.0330	7.5600e-003	4.0000e-005	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	3.6744	3.6744	4.6000e-004	0.0000	3.6859
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.7000e-004**	**0.0331**	**7.5700e-003**	**4.0000e-005**	**1.3000e-004**	**1.0000e-005**	**1.4000e-004**	**4.0000e-005**	**1.0000e-005**	**5.0000e-005**	**0.0000**	**3.6866**	**3.6866**	**4.6000e-004**	**0.0000**	**3.6982**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0180	0.3422	0.6022	1.0000e-003		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	85.8338	85.8338	7.3300e-003	0.0000	86.0170
Total	**0.0180**	**0.3422**	**0.6022**	**1.0000e-003**		**1.3700e-003**	**1.3700e-003**		**1.3700e-003**	**1.3700e-003**	**0.0000**	**85.8338**	**85.8338**	**7.3300e-003**	**0.0000**	**86.0170**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	9.0000e-005	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0122	0.0122	0.0000	0.0000	0.0123
Vendor	6.7000e-004	0.0330	7.5600e-003	4.0000e-005	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	3.6744	3.6744	4.6000e-004	0.0000	3.6859
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.7000e-004**	**0.0331**	**7.5700e-003**	**4.0000e-005**	**1.3000e-004**	**1.0000e-005**	**1.4000e-004**	**4.0000e-005**	**1.0000e-005**	**5.0000e-005**	**0.0000**	**3.6866**	**3.6866**	**4.6000e-004**	**0.0000**	**3.6982**

3.9 Storage Tank Construction 1 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1901	1.6910	2.1162	4.0100e-003		0.0749	0.0749		0.0738	0.0738	0.0000	345.9757	345.9757	0.0289	0.0000	346.6976
Total	**0.1901**	**1.6910**	**2.1162**	**4.0100e-003**		**0.0749**	**0.0749**		**0.0738**	**0.0738**	**0.0000**	**345.9757**	**345.9757**	**0.0289**	**0.0000**	**346.6976**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.7000e-004	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0488	0.0488	1.0000e-005	0.0000	0.0489
Vendor	2.5600e-003	0.1323	0.0289	1.5000e-004	5.2000e-004	3.0000e-005	5.5000e-004	1.6000e-004	3.0000e-005	1.9000e-004	0.0000	14.6623	14.6623	1.7900e-003	0.0000	14.7071
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.5700e-003**	**0.1327**	**0.0290**	**1.5000e-004**	**5.2000e-004**	**3.0000e-005**	**5.5000e-004**	**1.6000e-004**	**3.0000e-005**	**1.9000e-004**	**0.0000**	**14.7111**	**14.7111**	**1.8000e-003**	**0.0000**	**14.7560**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0725	1.3791	2.4274	4.0100e-003		5.5200e-003	5.5200e-003		5.5200e-003	5.5200e-003	0.0000	345.9753	345.9753	0.0289	0.0000	346.6972
Total	**0.0725**	**1.3791**	**2.4274**	**4.0100e-003**		**5.5200e-003**	**5.5200e-003**		**5.5200e-003**	**5.5200e-003**	**0.0000**	**345.9753**	**345.9753**	**0.0289**	**0.0000**	**346.6972**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.7000e-004	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0488	0.0488	1.0000e-005	0.0000	0.0489
Vendor	2.5600e-003	0.1323	0.0289	1.5000e-004	5.2000e-004	3.0000e-005	5.5000e-004	1.6000e-004	3.0000e-005	1.9000e-004	0.0000	14.6623	14.6623	1.7900e-003	0.0000	14.7071
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.5700e-003**	**0.1327**	**0.0290**	**1.5000e-004**	**5.2000e-004**	**3.0000e-005**	**5.5000e-004**	**1.6000e-004**	**3.0000e-005**	**1.9000e-004**	**0.0000**	**14.7111**	**14.7111**	**1.8000e-003**	**0.0000**	**14.7560**

3.9 Storage Tank Construction 1 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1482	1.3134	1.7558	3.3400e-003		0.0544	0.0544		0.0535	0.0535	0.0000	287.8743	287.8743	0.0232	0.0000	288.4533
Total	**0.1482**	**1.3134**	**1.7558**	**3.3400e-003**		**0.0544**	**0.0544**		**0.0535**	**0.0535**	**0.0000**	**287.8743**	**287.8743**	**0.0232**	**0.0000**	**288.4533**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	3.0000e-004	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0401	0.0401	0.0000	0.0000	0.0402
Vendor	2.0500e-003	0.1096	0.0231	1.2000e-004	4.3000e-004	3.0000e-005	4.6000e-004	1.3000e-004	2.0000e-005	1.6000e-004	0.0000	12.0718	12.0718	1.4400e-003	0.0000	12.1077
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0500e-003**	**0.1099**	**0.0231**	**1.2000e-004**	**4.3000e-004**	**3.0000e-005**	**4.6000e-004**	**1.3000e-004**	**2.0000e-005**	**1.6000e-004**	**0.0000**	**12.1119**	**12.1119**	**1.4400e-003**	**0.0000**	**12.1479**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0603	1.1475	2.0197	3.3400e-003		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003	0.0000	287.8740	287.8740	0.0232	0.0000	288.4530
Total	**0.0603**	**1.1475**	**2.0197**	**3.3400e-003**		**4.6000e-003**	**4.6000e-003**		**4.6000e-003**	**4.6000e-003**	**0.0000**	**287.8740**	**287.8740**	**0.0232**	**0.0000**	**288.4530**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	3.0000e-004	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0401	0.0401	0.0000	0.0000	0.0402
Vendor	2.0500e-003	0.1096	0.0231	1.2000e-004	4.3000e-004	3.0000e-005	4.6000e-004	1.3000e-004	2.0000e-005	1.6000e-004	0.0000	12.0718	12.0718	1.4400e-003	0.0000	12.1077
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0500e-003**	**0.1099**	**0.0231**	**1.2000e-004**	**4.3000e-004**	**3.0000e-005**	**4.6000e-004**	**1.3000e-004**	**2.0000e-005**	**1.6000e-004**	**0.0000**	**12.1119**	**12.1119**	**1.4400e-003**	**0.0000**	**12.1479**

3.10 Storage Tank Construction 2 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0290	0.3134	0.1774	4.4000e-004		0.0131	0.0131		0.0121	0.0121	0.0000	38.1943	38.1943	0.0123	0.0000	38.5012
Total	**0.0290**	**0.3134**	**0.1774**	**4.4000e-004**		**0.0131**	**0.0131**		**0.0121**	**0.0121**	**0.0000**	**38.1943**	**38.1943**	**0.0123**	**0.0000**	**38.5012**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.0700e-003	0.1330	0.2527	4.4000e-004		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004	0.0000	38.1942	38.1942	0.0123	0.0000	38.5012
Total	**8.0700e-003**	**0.1330**	**0.2527**	**4.4000e-004**		**8.1000e-004**	**8.1000e-004**		**8.1000e-004**	**8.1000e-004**	**0.0000**	**38.1942**	**38.1942**	**0.0123**	**0.0000**	**38.5012**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.11 Storage Tank Construction 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.2000e-004	8.2000e-004	6.6000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0975	0.0975	1.0000e-005	0.0000	0.0978
Total	**1.2000e-004**	**8.2000e-004**	**6.6000e-004**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.0975**	**0.0975**	**1.0000e-005**	**0.0000**	**0.0978**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0975	0.0975	1.0000e-005	0.0000	0.0978
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0975**	**0.0975**	**1.0000e-005**	**0.0000**	**0.0978**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.12 Storage Tank Construction 4 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0125	0.1007	0.1280	2.0000e-004		4.8300e-003	4.8300e-003		4.6100e-003	4.6100e-003	0.0000	16.9191	16.9191	3.7200e-003	0.0000	17.0120
Total	**0.0125**	**0.1007**	**0.1280**	**2.0000e-004**		**4.8300e-003**	**4.8300e-003**		**4.6100e-003**	**4.6100e-003**	**0.0000**	**16.9191**	**16.9191**	**3.7200e-003**	**0.0000**	**17.0120**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.1400e-003	0.0909	0.1405	2.0000e-004		1.5900e-003	1.5900e-003		1.5900e-003	1.5900e-003	0.0000	16.9191	16.9191	3.7200e-003	0.0000	17.0120
Total	**6.1400e-003**	**0.0909**	**0.1405**	**2.0000e-004**		**1.5900e-003**	**1.5900e-003**		**1.5900e-003**	**1.5900e-003**	**0.0000**	**16.9191**	**16.9191**	**3.7200e-003**	**0.0000**	**17.0120**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.13 Storage Tank Construction 5 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4400e-003	0.0455	0.0743	1.1000e-004		1.4600e-003	1.4600e-003		1.3400e-003	1.3400e-003	0.0000	9.8417	9.8417	3.1800e-003	0.0000	9.9213
Total	**3.4400e-003**	**0.0455**	**0.0743**	**1.1000e-004**		**1.4600e-003**	**1.4600e-003**		**1.3400e-003**	**1.3400e-003**	**0.0000**	**9.8417**	**9.8417**	**3.1800e-003**	**0.0000**	**9.9213**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.5200e-003	0.0491	0.0848	1.1000e-004		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	9.8417	9.8417	3.1800e-003	0.0000	9.9213
Total	**2.5200e-003**	**0.0491**	**0.0848**	**1.1000e-004**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**	**0.0000**	**9.8417**	**9.8417**	**3.1800e-003**	**0.0000**	**9.9213**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.13 Storage Tank Construction 5 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0134	0.1769	0.2999	4.5000e-004		5.3900e-003	5.3900e-003		4.9600e-003	4.9600e-003	0.0000	39.6616	39.6616	0.0128	0.0000	39.9823
Total	**0.0134**	**0.1769**	**0.2999**	**4.5000e-004**		**5.3900e-003**	**5.3900e-003**		**4.9600e-003**	**4.9600e-003**	**0.0000**	**39.6616**	**39.6616**	**0.0128**	**0.0000**	**39.9823**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0102	0.1978	0.3420	4.5000e-004		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	39.6616	39.6616	0.0128	0.0000	39.9823
Total	**0.0102**	**0.1978**	**0.3420**	**4.5000e-004**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**39.6616**	**39.6616**	**0.0128**	**0.0000**	**39.9823**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.13 Storage Tank Construction 5 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9700e-003	0.0527	0.0937	1.4000e-004		1.4800e-003	1.4800e-003		1.3600e-003	1.3600e-003	0.0000	12.4125	12.4125	4.0100e-003	0.0000	12.5128
Total	**3.9700e-003**	**0.0527**	**0.0937**	**1.4000e-004**		**1.4800e-003**	**1.4800e-003**		**1.3600e-003**	**1.3600e-003**	**0.0000**	**12.4125**	**12.4125**	**4.0100e-003**	**0.0000**	**12.5128**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.1800e-003	0.0619	0.1070	1.4000e-004		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	12.4125	12.4125	4.0100e-003	0.0000	12.5128
Total	**3.1800e-003**	**0.0619**	**0.1070**	**1.4000e-004**		**2.3000e-004**	**2.3000e-004**		**2.3000e-004**	**2.3000e-004**	**0.0000**	**12.4125**	**12.4125**	**4.0100e-003**	**0.0000**	**12.5128**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.14 Flow Control Station 1 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1156	0.0586	1.9000e-004		4.8100e-003	4.8100e-003		4.4300e-003	4.4300e-003	0.0000	16.7291	16.7291	5.4100e-003	0.0000	16.8643
Total	**0.0110**	**0.1156**	**0.0586**	**1.9000e-004**		**4.8100e-003**	**4.8100e-003**		**4.4300e-003**	**4.4300e-003**	**0.0000**	**16.7291**	**16.7291**	**5.4100e-003**	**0.0000**	**16.8643**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	9.0900e-003	2.6000e-003	3.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	3.0871	3.0871	1.7000e-004	0.0000	3.0913
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.6000e-004**	**9.0900e-003**	**2.6000e-003**	**3.0000e-005**	**8.3000e-004**	**1.0000e-005**	**8.4000e-004**	**2.4000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**3.0871**	**3.0871**	**1.7000e-004**	**0.0000**	**3.0913**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.1200e-003	0.0503	0.1014	1.9000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	16.7291	16.7291	5.4100e-003	0.0000	16.8643
Total	**3.1200e-003**	**0.0503**	**0.1014**	**1.9000e-004**		**3.1000e-004**	**3.1000e-004**		**3.1000e-004**	**3.1000e-004**	**0.0000**	**16.7291**	**16.7291**	**5.4100e-003**	**0.0000**	**16.8643**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	9.0900e-003	2.6000e-003	3.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	3.0871	3.0871	1.7000e-004	0.0000	3.0913
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.6000e-004**	**9.0900e-003**	**2.6000e-003**	**3.0000e-005**	**8.3000e-004**	**1.0000e-005**	**8.4000e-004**	**2.4000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**3.0871**	**3.0871**	**1.7000e-004**	**0.0000**	**3.0913**

3.14 Flow Control Station 1 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0341	0.3453	0.1893	6.3000e-004		0.0147	0.0147		0.0135	0.0135	0.0000	55.2585	55.2585	0.0179	0.0000	55.7053
Total	**0.0341**	**0.3453**	**0.1893**	**6.3000e-004**		**0.0147**	**0.0147**		**0.0135**	**0.0135**	**0.0000**	**55.2585**	**55.2585**	**0.0179**	**0.0000**	**55.7053**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.3000e-004	0.0298	8.3500e-003	1.0000e-004	2.7500e-003	3.0000e-005	2.7800e-003	7.9000e-004	3.0000e-005	8.2000e-004	0.0000	10.1396	10.1396	5.5000e-004	0.0000	10.1533
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.3000e-004**	**0.0298**	**8.3500e-003**	**1.0000e-004**	**2.7500e-003**	**3.0000e-005**	**2.7800e-003**	**7.9000e-004**	**3.0000e-005**	**8.2000e-004**	**0.0000**	**10.1396**	**10.1396**	**5.5000e-004**	**0.0000**	**10.1533**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1661	0.3348	6.3000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	55.2584	55.2584	0.0179	0.0000	55.7052
Total	**0.0103**	**0.1661**	**0.3348**	**6.3000e-004**		**1.0300e-003**	**1.0300e-003**		**1.0300e-003**	**1.0300e-003**	**0.0000**	**55.2584**	**55.2584**	**0.0179**	**0.0000**	**55.7052**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.3000e-004	0.0298	8.3500e-003	1.0000e-004	2.7500e-003	3.0000e-005	2.7800e-003	7.9000e-004	3.0000e-005	8.2000e-004	0.0000	10.1396	10.1396	5.5000e-004	0.0000	10.1533
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.3000e-004**	**0.0298**	**8.3500e-003**	**1.0000e-004**	**2.7500e-003**	**3.0000e-005**	**2.7800e-003**	**7.9000e-004**	**3.0000e-005**	**8.2000e-004**	**0.0000**	**10.1396**	**10.1396**	**5.5000e-004**	**0.0000**	**10.1533**

3.15 Flow Control Station 2 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.4500e-003	0.0206	0.0298	5.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	4.5217	4.5217	2.0000e-004	0.0000	4.5266
Total	**2.4500e-003**	**0.0206**	**0.0298**	**5.0000e-005**		**9.4000e-004**	**9.4000e-004**		**9.4000e-004**	**9.4000e-004**	**0.0000**	**4.5217**	**4.5217**	**2.0000e-004**	**0.0000**	**4.5266**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.6000e-004	0.0188	0.0325	5.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	4.5217	4.5217	2.0000e-004	0.0000	4.5266
Total	**9.6000e-004**	**0.0188**	**0.0325**	**5.0000e-005**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**4.5217**	**4.5217**	**2.0000e-004**	**0.0000**	**4.5266**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.16 Flow Control Station 3 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.8000e-003	0.0107	0.0125	2.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	1.4417	1.4417	1.5000e-004	0.0000	1.4453
Total	**1.8000e-003**	**0.0107**	**0.0125**	**2.0000e-005**		**3.8000e-004**	**3.8000e-004**		**3.8000e-004**	**3.8000e-004**	**0.0000**	**1.4417**	**1.4417**	**1.5000e-004**	**0.0000**	**1.4453**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6500e-003	9.6700e-003	0.0117	2.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	1.4417	1.4417	1.5000e-004	0.0000	1.4453
Total	**1.6500e-003**	**9.6700e-003**	**0.0117**	**2.0000e-005**		**3.3000e-004**	**3.3000e-004**		**3.3000e-004**	**3.3000e-004**	**0.0000**	**1.4417**	**1.4417**	**1.5000e-004**	**0.0000**	**1.4453**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.17 Flow Control Station 4 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3800e-003	0.0446	0.0755	1.1000e-004		1.3600e-003	1.3600e-003		1.2500e-003	1.2500e-003	0.0000	9.9911	9.9911	3.2300e-003	0.0000	10.0719
Total	**3.3800e-003**	**0.0446**	**0.0755**	**1.1000e-004**		**1.3600e-003**	**1.3600e-003**		**1.2500e-003**	**1.2500e-003**	**0.0000**	**9.9911**	**9.9911**	**3.2300e-003**	**0.0000**	**10.0719**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.5600e-003	0.0498	0.0861	1.1000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	9.9911	9.9911	3.2300e-003	0.0000	10.0719
Total	**2.5600e-003**	**0.0498**	**0.0861**	**1.1000e-004**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**	**0.0000**	**9.9911**	**9.9911**	**3.2300e-003**	**0.0000**	**10.0719**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.18 Flow Control Station 5 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.1300e-003	0.0627	0.1210	1.8000e-004		2.9800e-003	2.9800e-003		2.7400e-003	2.7400e-003	0.0000	16.0070	16.0070	5.1800e-003	0.0000	16.1364
Total	**7.1300e-003**	**0.0627**	**0.1210**	**1.8000e-004**		**2.9800e-003**	**2.9800e-003**		**2.7400e-003**	**2.7400e-003**	**0.0000**	**16.0070**	**16.0070**	**5.1800e-003**	**0.0000**	**16.1364**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-004	0.0608	8.4100e-003	8.0000e-005	1.5000e-004	2.0000e-005	1.6000e-004	4.0000e-005	2.0000e-005	6.0000e-005	0.0000	8.1147	8.1147	1.0000e-003	0.0000	8.1397
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.0000e-004**	**0.0608**	**8.4100e-003**	**8.0000e-005**	**1.5000e-004**	**2.0000e-005**	**1.6000e-004**	**4.0000e-005**	**2.0000e-005**	**6.0000e-005**	**0.0000**	**8.1147**	**8.1147**	**1.0000e-003**	**0.0000**	**8.1397**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.9300e-003	0.0799	0.1377	1.8000e-004		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	16.0070	16.0070	5.1800e-003	0.0000	16.1364
Total	**2.9300e-003**	**0.0799**	**0.1377**	**1.8000e-004**		**3.0000e-004**	**3.0000e-004**		**3.0000e-004**	**3.0000e-004**	**0.0000**	**16.0070**	**16.0070**	**5.1800e-003**	**0.0000**	**16.1364**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-004	0.0608	8.4100e-003	8.0000e-005	1.5000e-004	2.0000e-005	1.6000e-004	4.0000e-005	2.0000e-005	6.0000e-005	0.0000	8.1147	8.1147	1.0000e-003	0.0000	8.1397
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.0000e-004**	**0.0608**	**8.4100e-003**	**8.0000e-005**	**1.5000e-004**	**2.0000e-005**	**1.6000e-004**	**4.0000e-005**	**2.0000e-005**	**6.0000e-005**	**0.0000**	**8.1147**	**8.1147**	**1.0000e-003**	**0.0000**	**8.1397**

3.19 Flow Control Station 6 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0200e-003	0.0107	0.0130	2.0000e-005		5.6000e-004	5.6000e-004		5.2000e-004	5.2000e-004	0.0000	1.6139	1.6139	5.2000e-004	0.0000	1.6270
Total	**1.0200e-003**	**0.0107**	**0.0130**	**2.0000e-005**		**5.6000e-004**	**5.6000e-004**		**5.2000e-004**	**5.2000e-004**	**0.0000**	**1.6139**	**1.6139**	**5.2000e-004**	**0.0000**	**1.6270**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.1000e-004	8.0300e-003	0.0139	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.6139	1.6139	5.2000e-004	0.0000	1.6270
Total	**4.1000e-004**	**8.0300e-003**	**0.0139**	**2.0000e-005**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**1.6139**	**1.6139**	**5.2000e-004**	**0.0000**	**1.6270**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.20 Flow Control Station 7 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0146	0.1409	0.2106	3.4000e-004		5.9500e-003	5.9500e-003		5.7300e-003	5.7300e-003	0.0000	29.5419	29.5419	4.9000e-003	0.0000	29.6643
Total	**0.0146**	**0.1409**	**0.2106**	**3.4000e-004**		**5.9500e-003**	**5.9500e-003**		**5.7300e-003**	**5.7300e-003**	**0.0000**	**29.5419**	**29.5419**	**4.9000e-003**	**0.0000**	**29.6643**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.4400e-003	0.1422	0.2301	3.4000e-004		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	29.5418	29.5418	4.9000e-003	0.0000	29.6643
Total	**7.4400e-003**	**0.1422**	**0.2301**	**3.4000e-004**		**1.8900e-003**	**1.8900e-003**		**1.8900e-003**	**1.8900e-003**	**0.0000**	**29.5418**	**29.5418**	**4.9000e-003**	**0.0000**	**29.6643**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.21 Storage Tank Construction 6 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.7300e-003	0.0621	0.0899	1.4000e-004		3.2100e-003	3.2100e-003		2.9600e-003	2.9600e-003	0.0000	12.2189	12.2189	3.9500e-003	0.0000	12.3177
Total	**6.7300e-003**	**0.0621**	**0.0899**	**1.4000e-004**		**3.2100e-003**	**3.2100e-003**		**2.9600e-003**	**2.9600e-003**	**0.0000**	**12.2189**	**12.2189**	**3.9500e-003**	**0.0000**	**12.3177**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7200e-003	0.0616	0.1061	1.4000e-004		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	12.2189	12.2189	3.9500e-003	0.0000	12.3177
Total	**1.7200e-003**	**0.0616**	**0.1061**	**1.4000e-004**		**2.3000e-004**	**2.3000e-004**		**2.3000e-004**	**2.3000e-004**	**0.0000**	**12.2189**	**12.2189**	**3.9500e-003**	**0.0000**	**12.3177**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.22 Finish Grading/Site Improvements - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2191	0.0000	0.2191	0.1114	0.0000	0.1114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0515	0.5356	0.3953	9.4000e-004		0.0217	0.0217		0.0200	0.0200	0.0000	82.6449	82.6449	0.0266	0.0000	83.3103
Total	**0.0515**	**0.5356**	**0.3953**	**9.4000e-004**	**0.2191**	**0.0217**	**0.2409**	**0.1114**	**0.0200**	**0.1315**	**0.0000**	**82.6449**	**82.6449**	**0.0266**	**0.0000**	**83.3103**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-004	0.0266	5.5800e-003	3.0000e-005	1.1000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	2.9238	2.9238	3.5000e-004	0.0000	2.9325
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.0000e-004**	**0.0266**	**5.5800e-003**	**3.0000e-005**	**1.1000e-004**	**1.0000e-005**	**1.1000e-004**	**3.0000e-005**	**1.0000e-005**	**4.0000e-005**	**0.0000**	**2.9238**	**2.9238**	**3.5000e-004**	**0.0000**	**2.9325**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0855	0.0000	0.0855	0.0435	0.0000	0.0435	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.3098	0.5656	9.4000e-004		3.1400e-003	3.1400e-003		3.1400e-003	3.1400e-003	0.0000	82.6448	82.6448	0.0266	0.0000	83.3102
Total	**0.0171**	**0.3098**	**0.5656**	**9.4000e-004**	**0.0855**	**3.1400e-003**	**0.0886**	**0.0435**	**3.1400e-003**	**0.0466**	**0.0000**	**82.6448**	**82.6448**	**0.0266**	**0.0000**	**83.3102**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-004	0.0266	5.5800e-003	3.0000e-005	1.1000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	2.9238	2.9238	3.5000e-004	0.0000	2.9325
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.0000e-004**	**0.0266**	**5.5800e-003**	**3.0000e-005**	**1.1000e-004**	**1.0000e-005**	**1.1000e-004**	**3.0000e-005**	**1.0000e-005**	**4.0000e-005**	**0.0000**	**2.9238**	**2.9238**	**3.5000e-004**	**0.0000**	**2.9325**

3.22 Finish Grading/Site Improvements - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0535	0.0000	0.0535	0.0204	0.0000	0.0204	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5800e-003	0.0893	0.0659	1.6000e-004		3.6200e-003	3.6200e-003		3.3400e-003	3.3400e-003	0.0000	13.7742	13.7742	4.4400e-003	0.0000	13.8850
Total	**8.5800e-003**	**0.0893**	**0.0659**	**1.6000e-004**	**0.0535**	**3.6200e-003**	**0.0572**	**0.0204**	**3.3400e-003**	**0.0238**	**0.0000**	**13.7742**	**13.7742**	**4.4400e-003**	**0.0000**	**13.8850**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	4.4000e-003	9.0000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.4823	0.4823	6.0000e-005	0.0000	0.4837
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.0000e-005**	**4.4000e-003**	**9.0000e-004**	**0.0000**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.4823**	**0.4823**	**6.0000e-005**	**0.0000**	**0.4837**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0209	0.0000	0.0209	7.9600e-003	0.0000	7.9600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0516	0.0943	1.6000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	13.7741	13.7741	4.4400e-003	0.0000	13.8850
Total	**2.8500e-003**	**0.0516**	**0.0943**	**1.6000e-004**	**0.0209**	**5.2000e-004**	**0.0214**	**7.9600e-003**	**5.2000e-004**	**8.4800e-003**	**0.0000**	**13.7741**	**13.7741**	**4.4400e-003**	**0.0000**	**13.8850**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.0000e-005	4.4000e-003	9.0000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.4823	0.4823	6.0000e-005	0.0000	0.4837
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.0000e-005**	**4.4000e-003**	**9.0000e-004**	**0.0000**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.4823**	**0.4823**	**6.0000e-005**	**0.0000**	**0.4837**

3.23 Storage Tank Construction 7 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0900e-003	0.0590	0.0881	1.6000e-004		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	13.3950	13.3950	5.7000e-004	0.0000	13.4092
Total	**7.0900e-003**	**0.0590**	**0.0881**	**1.6000e-004**		**2.4400e-003**	**2.4400e-003**		**2.4400e-003**	**2.4400e-003**	**0.0000**	**13.3950**	**13.3950**	**5.7000e-004**	**0.0000**	**13.4092**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7700e-003	0.0540	0.0933	1.6000e-004		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	13.3950	13.3950	5.7000e-004	0.0000	13.4092
Total	**2.7700e-003**	**0.0540**	**0.0933**	**1.6000e-004**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**13.3950**	**13.3950**	**5.7000e-004**	**0.0000**	**13.4092**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.24 Demoltion - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.9800e-003	0.0000	5.9800e-003	9.1000e-004	0.0000	9.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1459	1.3260	1.4893	2.7800e-003		0.0550	0.0550		0.0522	0.0522	0.0000	241.3740	241.3740	0.0466	0.0000	242.5392
Total	**0.1459**	**1.3260**	**1.4893**	**2.7800e-003**	**5.9800e-003**	**0.0550**	**0.0610**	**9.1000e-004**	**0.0522**	**0.0531**	**0.0000**	**241.3740**	**241.3740**	**0.0466**	**0.0000**	**242.5392**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	2.9700e-003	4.2000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.3929	0.3929	5.0000e-005	0.0000	0.3941
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.0000e-005**	**2.9700e-003**	**4.2000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.3929**	**0.3929**	**5.0000e-005**	**0.0000**	**0.3941**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3300e-003	0.0000	2.3300e-003	3.5000e-004	0.0000	3.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0518	0.9623	1.7265	2.7800e-003		4.1400e-003	4.1400e-003		4.1400e-003	4.1400e-003	0.0000	241.3737	241.3737	0.0466	0.0000	242.5389
Total	**0.0518**	**0.9623**	**1.7265**	**2.7800e-003**	**2.3300e-003**	**4.1400e-003**	**6.4700e-003**	**3.5000e-004**	**4.1400e-003**	**4.4900e-003**	**0.0000**	**241.3737**	**241.3737**	**0.0466**	**0.0000**	**242.5389**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	2.9700e-003	4.2000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.3929	0.3929	5.0000e-005	0.0000	0.3941
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.0000e-005**	**2.9700e-003**	**4.2000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.3929**	**0.3929**	**5.0000e-005**	**0.0000**	**0.3941**

3.25 Pump Station Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1030	1.0712	0.7907	1.8900e-003		0.0435	0.0435		0.0400	0.0400	0.0000	165.2897	165.2897	0.0532	0.0000	166.6205
Total	**0.1030**	**1.0712**	**0.7907**	**1.8900e-003**		**0.0435**	**0.0435**		**0.0400**	**0.0400**	**0.0000**	**165.2897**	**165.2897**	**0.0532**	**0.0000**	**166.6205**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.6000e-004	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0483	0.0483	1.0000e-005	0.0000	0.0484
Vendor	5.8000e-004	0.0329	6.5700e-003	4.0000e-005	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	3.5865	3.5865	4.1000e-004	0.0000	3.5967
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.9000e-004**	**0.0333**	**6.6200e-003**	**4.0000e-005**	**1.3000e-004**	**1.0000e-005**	**1.4000e-004**	**4.0000e-005**	**1.0000e-005**	**5.0000e-005**	**0.0000**	**3.6348**	**3.6348**	**4.2000e-004**	**0.0000**	**3.6451**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0342	0.6195	1.1313	1.8900e-003		6.2900e-003	6.2900e-003		6.2900e-003	6.2900e-003	0.0000	165.2896	165.2896	0.0532	0.0000	166.6203
Total	**0.0342**	**0.6195**	**1.1313**	**1.8900e-003**		**6.2900e-003**	**6.2900e-003**		**6.2900e-003**	**6.2900e-003**	**0.0000**	**165.2896**	**165.2896**	**0.0532**	**0.0000**	**166.6203**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.6000e-004	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0483	0.0483	1.0000e-005	0.0000	0.0484
Vendor	5.8000e-004	0.0329	6.5700e-003	4.0000e-005	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	3.5865	3.5865	4.1000e-004	0.0000	3.5967
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.9000e-004**	**0.0333**	**6.6200e-003**	**4.0000e-005**	**1.3000e-004**	**1.0000e-005**	**1.4000e-004**	**4.0000e-005**	**1.0000e-005**	**5.0000e-005**	**0.0000**	**3.6348**	**3.6348**	**4.2000e-004**	**0.0000**	**3.6451**

3.25 Pump Station Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2029	2.1099	1.5573	3.7100e-003		0.0856	0.0856		0.0788	0.0788	0.0000	325.5707	325.5707	0.1049	0.0000	328.1920
Total	**0.2029**	**2.1099**	**1.5573**	**3.7100e-003**		**0.0856**	**0.0856**		**0.0788**	**0.0788**	**0.0000**	**325.5707**	**325.5707**	**0.1049**	**0.0000**	**328.1920**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	7.1000e-004	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0943	0.0943	1.0000e-005	0.0000	0.0946
Vendor	1.1200e-003	0.0645	0.0127	7.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	7.0078	7.0078	7.8000e-004	0.0000	7.0272
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.1300e-003**	**0.0652**	**0.0128**	**7.0000e-005**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**8.0000e-005**	**1.0000e-005**	**9.0000e-005**	**0.0000**	**7.1021**	**7.1021**	**7.9000e-004**	**0.0000**	**7.1217**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0673	1.2203	2.2283	3.7100e-003		0.0124	0.0124		0.0124	0.0124	0.0000	325.5703	325.5703	0.1049	0.0000	328.1916
Total	**0.0673**	**1.2203**	**2.2283**	**3.7100e-003**		**0.0124**	**0.0124**		**0.0124**	**0.0124**	**0.0000**	**325.5703**	**325.5703**	**0.1049**	**0.0000**	**328.1916**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	7.1000e-004	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0943	0.0943	1.0000e-005	0.0000	0.0946
Vendor	1.1200e-003	0.0645	0.0127	7.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	7.0078	7.0078	7.8000e-004	0.0000	7.0272
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.1300e-003**	**0.0652**	**0.0128**	**7.0000e-005**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**8.0000e-005**	**1.0000e-005**	**9.0000e-005**	**0.0000**	**7.1021**	**7.1021**	**7.9000e-004**	**0.0000**	**7.1217**

3.25 Pump Station Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1131	1.1767	0.8685	2.0700e-003		0.0478	0.0478		0.0440	0.0440	0.0000	181.5683	181.5683	0.0585	0.0000	183.0301
Total	**0.1131**	**1.1767**	**0.8685**	**2.0700e-003**		**0.0478**	**0.0478**		**0.0440**	**0.0440**	**0.0000**	**181.5683**	**181.5683**	**0.0585**	**0.0000**	**183.0301**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.0000e-004	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0522	0.0522	1.0000e-005	0.0000	0.0524
Vendor	6.1000e-004	0.0359	6.9300e-003	4.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	3.8820	3.8820	4.2000e-004	0.0000	3.8925
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.2000e-004**	**0.0363**	**6.9900e-003**	**4.0000e-005**	**1.4000e-004**	**1.0000e-005**	**1.5000e-004**	**4.0000e-005**	**1.0000e-005**	**5.0000e-005**	**0.0000**	**3.9342**	**3.9342**	**4.3000e-004**	**0.0000**	**3.9449**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0375	0.6805	1.2427	2.0700e-003		6.9100e-003	6.9100e-003		6.9100e-003	6.9100e-003	0.0000	181.5681	181.5681	0.0585	0.0000	183.0299
Total	**0.0375**	**0.6805**	**1.2427**	**2.0700e-003**		**6.9100e-003**	**6.9100e-003**		**6.9100e-003**	**6.9100e-003**	**0.0000**	**181.5681**	**181.5681**	**0.0585**	**0.0000**	**183.0299**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.0000e-004	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0522	0.0522	1.0000e-005	0.0000	0.0524
Vendor	6.1000e-004	0.0359	6.9300e-003	4.0000e-005	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	3.8820	3.8820	4.2000e-004	0.0000	3.8925
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.2000e-004**	**0.0363**	**6.9900e-003**	**4.0000e-005**	**1.4000e-004**	**1.0000e-005**	**1.5000e-004**	**4.0000e-005**	**1.0000e-005**	**5.0000e-005**	**0.0000**	**3.9342**	**3.9342**	**4.3000e-004**	**0.0000**	**3.9449**

APPENDIX B

AERMOD Input and HARP2 Output Files

HARP2 - HRACalc (dated 19044) 10/9/2019 1:17:19 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 7

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 5
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\Archive\DESOTO_STORAGE_TANKS\hra\DeSotoStorageTanks_RES_CancerRisk.csv
Cancer risk total by receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\Archive\DESOTO_STORAGE_TANKS\hra\DeSotoStorageTanks_RES_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\Archive\DESOTO_STORAGE_TANKS\hra\DeSotoStorageTanks_RES_NCChronicRisk.csv
Chronic risk total by receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\Archive\DESOTO_STORAGE_TANKS\hra\DeSotoStorageTanks_RES_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\Archive\DESOTO_STORAGE_TANKS\hra\DeSotoStorageTanks_RES_NCAcuteRisk.csv
Acute risk total by receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\Archive\DESOTO_STORAGE_TANKS\hra\DeSotoStorageTanks_RES_NCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 17023) 10/9/2018 10:05:47 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 5
Total Exposure Duration: 7

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 4
2<16 Years Bin: 3
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_SCHOOL\hra\DeSotoStorageTanks_SCH_CancerRisk.csv
Cancer risk total by receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_SCHOOL\hra\DeSotoStorageTanks_SCH_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_SCHOOL\hra\DeSotoStorageTanks_SCH_NCChronicRisk.csv
Chronic risk total by receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_SCHOOL\hra\DeSotoStorageTanks_SCH_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_SCHOOL\hra\DeSotoStorageTanks_SCH_NCAcuteRisk.csv
Acute risk total by receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_SCHOOL\hra\DeSotoStorageTanks_SCH_NCAcuteRiskSumByRec.csv
HRA ran successfully

DeSotoStorageTanks_RES_MIT_Output

HARP2 - HRACalc (dated 17023) 10/9/2018 10:01:01 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 7

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 5
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_MIT\hra\DeSotoStorageTanks_RES_MIT_CancerRisk.csv
Cancer risk total by receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_MIT\hra\DeSotoStorageTanks_RES_MIT_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_MIT\hra\DeSotoStorageTanks_RES_MIT_NCChronicRisk.csv
Chronic risk total by receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_MIT\hra\DeSotoStorageTanks_RES_MIT_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_MIT\hra\DeSotoStorageTanks_RES_MIT_NCAcuteRisk.csv
Acute risk total by receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_MIT\hra\DeSotoStorageTanks_RES_MIT_NCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 17023) 10/9/2018 9:56:40 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 5
Total Exposure Duration: 7

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 4
2<16 Years Bin: 3
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_SCHOOL_MIT\hra\DeSotoStorageTanks_SCH_MIT_CancerRisk.csv
Cancer risk total by receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_SCHOOL_MIT\hra\DeSotoStorageTanks_SCH_MIT_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_SCHOOL_MIT\hra\DeSotoStorageTanks_SCH_MIT_NCChronicRisk.csv
Chronic risk total by receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_SCHOOL_MIT\hra\DeSotoStorageTanks_SCH_MIT_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_SCHOOL_MIT\hra\DeSotoStorageTanks_SCH_MIT_NCAcuteRisk.csv
Acute risk total by receptor saved to: P:\300.Environmental\10649 LADWP On-Call Services\03 Task Orders\27_De Soto Storage Tanks EIR\02 Dudek work products\Documents\AQ\Construction HRA\HARP2\DESOTO_STORAGE_TANKS_SCHOOL_MIT\hra\DeSotoStorageTanks_SCH_MIT_NCAcuteRiskSumByRec.csv

DeSotoStorageTanks_SCH_MIT_Output

HRA ran successfully

*HARP - HRACalc v19044 10/9/2019 1:35:29 PM - Cancer Risk - Input File: P:\300.Environmental\10649 LADW

REC	GRP	X	Y	RISK_SUM	SCENARIO	INH_RISK
2005	ALL	354008	3793427	1.60E-04	6.5YrCancerDerived_Inh_FAH16to70	1.60E-04
2006	ALL	354023	3793427	1.56E-04	6.5YrCancerDerived_Inh_FAH16to70	1.56E-04
2007	ALL	354038	3793427	1.50E-04	6.5YrCancerDerived_Inh_FAH16to70	1.50E-04
2008	ALL	354053	3793427	1.41E-04	6.5YrCancerDerived_Inh_FAH16to70	1.41E-04
2009	ALL	354068	3793427	1.30E-04	6.5YrCancerDerived_Inh_FAH16to70	1.30E-04
2010	ALL	354083	3793427	1.18E-04	6.5YrCancerDerived_Inh_FAH16to70	1.18E-04
1996	ALL	354008	3793412	1.16E-04	6.5YrCancerDerived_Inh_FAH16to70	1.16E-04
1997	ALL	354023	3793412	1.13E-04	6.5YrCancerDerived_Inh_FAH16to70	1.13E-04
1998	ALL	354038	3793412	1.09E-04	6.5YrCancerDerived_Inh_FAH16to70	1.09E-04
2011	ALL	354098	3793427	1.06E-04	6.5YrCancerDerived_Inh_FAH16to70	1.06E-04
1999	ALL	354053	3793412	1.03E-04	6.5YrCancerDerived_Inh_FAH16to70	1.03E-04
2000	ALL	354068	3793412	9.55E-05	6.5YrCancerDerived_Inh_FAH16to70	9.55E-05
2012	ALL	354113	3793427	9.26E-05	6.5YrCancerDerived_Inh_FAH16to70	9.26E-05
1988	ALL	354008	3793397	8.92E-05	6.5YrCancerDerived_Inh_FAH16to70	8.92E-05
2001	ALL	354083	3793412	8.72E-05	6.5YrCancerDerived_Inh_FAH16to70	8.72E-05
1989	ALL	354023	3793397	8.70E-05	6.5YrCancerDerived_Inh_FAH16to70	8.70E-05
1990	ALL	354038	3793397	8.39E-05	6.5YrCancerDerived_Inh_FAH16to70	8.39E-05
1991	ALL	354053	3793397	7.98E-05	6.5YrCancerDerived_Inh_FAH16to70	7.98E-05
2002	ALL	354098	3793412	7.85E-05	6.5YrCancerDerived_Inh_FAH16to70	7.85E-05
2013	ALL	354128	3793427	7.69E-05	6.5YrCancerDerived_Inh_FAH16to70	7.69E-05
1992	ALL	354068	3793397	7.44E-05	6.5YrCancerDerived_Inh_FAH16to70	7.44E-05
1981	ALL	354008	3793382	7.21E-05	6.5YrCancerDerived_Inh_FAH16to70	7.21E-05
1982	ALL	354023	3793382	7.10E-05	6.5YrCancerDerived_Inh_FAH16to70	7.10E-05
2003	ALL	354113	3793412	7.03E-05	6.5YrCancerDerived_Inh_FAH16to70	7.03E-05
1993	ALL	354083	3793397	6.85E-05	6.5YrCancerDerived_Inh_FAH16to70	6.85E-05
1983	ALL	354038	3793382	6.83E-05	6.5YrCancerDerived_Inh_FAH16to70	6.83E-05
1984	ALL	354053	3793382	6.48E-05	6.5YrCancerDerived_Inh_FAH16to70	6.48E-05
1994	ALL	354098	3793397	6.22E-05	6.5YrCancerDerived_Inh_FAH16to70	6.22E-05
2004	ALL	354128	3793412	6.12E-05	6.5YrCancerDerived_Inh_FAH16to70	6.12E-05
1985	ALL	354068	3793382	6.10E-05	6.5YrCancerDerived_Inh_FAH16to70	6.10E-05
1974	ALL	354008	3793367	5.97E-05	6.5YrCancerDerived_Inh_FAH16to70	5.97E-05
1975	ALL	354023	3793367	5.90E-05	6.5YrCancerDerived_Inh_FAH16to70	5.90E-05
1976	ALL	354038	3793367	5.68E-05	6.5YrCancerDerived_Inh_FAH16to70	5.68E-05
1995	ALL	354113	3793397	5.65E-05	6.5YrCancerDerived_Inh_FAH16to70	5.65E-05
1986	ALL	354083	3793382	5.64E-05	6.5YrCancerDerived_Inh_FAH16to70	5.64E-05
1977	ALL	354053	3793367	5.40E-05	6.5YrCancerDerived_Inh_FAH16to70	5.40E-05
1987	ALL	354098	3793382	5.14E-05	6.5YrCancerDerived_Inh_FAH16to70	5.14E-05
1978	ALL	354068	3793367	5.11E-05	6.5YrCancerDerived_Inh_FAH16to70	5.11E-05
1968	ALL	354008	3793352	5.01E-05	6.5YrCancerDerived_Inh_FAH16to70	5.01E-05
1969	ALL	354023	3793352	4.92E-05	6.5YrCancerDerived_Inh_FAH16to70	4.92E-05
1970	ALL	354038	3793352	4.76E-05	6.5YrCancerDerived_Inh_FAH16to70	4.76E-05
1979	ALL	354083	3793367	4.76E-05	6.5YrCancerDerived_Inh_FAH16to70	4.76E-05
1971	ALL	354053	3793352	4.56E-05	6.5YrCancerDerived_Inh_FAH16to70	4.56E-05
1011	ALL	353773.1	3793343	4.40E-05	6.5YrCancerDerived_Inh_FAH16to70	4.40E-05
1980	ALL	354098	3793367	4.37E-05	6.5YrCancerDerived_Inh_FAH16to70	4.37E-05

1962	ALL	353993	3793337	4.35E-05	6.5YrCancerDerived_Inh_FAH16to70	4.35E-05
1972	ALL	354068	3793352	4.31E-05	6.5YrCancerDerived_Inh_FAH16to70	4.31E-05
1963	ALL	354008	3793337	4.28E-05	6.5YrCancerDerived_Inh_FAH16to70	4.28E-05
1964	ALL	354023	3793337	4.19E-05	6.5YrCancerDerived_Inh_FAH16to70	4.19E-05
1965	ALL	354038	3793337	4.08E-05	6.5YrCancerDerived_Inh_FAH16to70	4.08E-05
1973	ALL	354083	3793352	4.05E-05	6.5YrCancerDerived_Inh_FAH16to70	4.05E-05
992	ALL	353773.1	3793318	4.00E-05	6.5YrCancerDerived_Inh_FAH16to70	4.00E-05
1966	ALL	354053	3793337	3.93E-05	6.5YrCancerDerived_Inh_FAH16to70	3.93E-05
1955	ALL	353963	3793322	3.83E-05	6.5YrCancerDerived_Inh_FAH16to70	3.83E-05
811	ALL	353773.1	3793143	3.82E-05	6.5YrCancerDerived_Inh_FAH16to70	3.82E-05
1956	ALL	353978	3793322	3.81E-05	6.5YrCancerDerived_Inh_FAH16to70	3.81E-05
954	ALL	353773.1	3793268	3.79E-05	6.5YrCancerDerived_Inh_FAH16to70	3.79E-05
1957	ALL	353993	3793322	3.78E-05	6.5YrCancerDerived_Inh_FAH16to70	3.78E-05
1958	ALL	354008	3793322	3.72E-05	6.5YrCancerDerived_Inh_FAH16to70	3.72E-05
1967	ALL	354068	3793337	3.72E-05	6.5YrCancerDerived_Inh_FAH16to70	3.72E-05
747	ALL	353773.1	3793093	3.69E-05	6.5YrCancerDerived_Inh_FAH16to70	3.69E-05
2273	ALL	353711.5	3793405	3.65E-05	6.5YrCancerDerived_Inh_FAH16to70	3.65E-05
1959	ALL	354023	3793322	3.63E-05	6.5YrCancerDerived_Inh_FAH16to70	3.63E-05
907	ALL	353773.1	3793218	3.63E-05	6.5YrCancerDerived_Inh_FAH16to70	3.63E-05
715	ALL	353773.1	3793068	3.62E-05	6.5YrCancerDerived_Inh_FAH16to70	3.62E-05
2201	ALL	353726.5	3793360	3.60E-05	6.5YrCancerDerived_Inh_FAH16to70	3.60E-05
1012	ALL	353798.1	3793343	3.59E-05	6.5YrCancerDerived_Inh_FAH16to70	3.59E-05
875	ALL	353773.1	3793193	3.59E-05	6.5YrCancerDerived_Inh_FAH16to70	3.59E-05
683	ALL	353773.1	3793043	3.55E-05	6.5YrCancerDerived_Inh_FAH16to70	3.55E-05
973	ALL	353773.1	3793293	3.55E-05	6.5YrCancerDerived_Inh_FAH16to70	3.55E-05
1960	ALL	354038	3793322	3.53E-05	6.5YrCancerDerived_Inh_FAH16to70	3.53E-05
1013	ALL	353823.1	3793343	3.49E-05	6.5YrCancerDerived_Inh_FAH16to70	3.49E-05
843	ALL	353773.1	3793168	3.49E-05	6.5YrCancerDerived_Inh_FAH16to70	3.49E-05
652	ALL	353773.1	3793018	3.48E-05	6.5YrCancerDerived_Inh_FAH16to70	3.48E-05
621	ALL	353773.1	3792993	3.41E-05	6.5YrCancerDerived_Inh_FAH16to70	3.41E-05
1961	ALL	354053	3793322	3.41E-05	6.5YrCancerDerived_Inh_FAH16to70	3.41E-05
993	ALL	353798.1	3793318	3.41E-05	6.5YrCancerDerived_Inh_FAH16to70	3.41E-05
1930	ALL	353740.5	3793235	3.39E-05	6.5YrCancerDerived_Inh_FAH16to70	3.39E-05
2249	ALL	353711.5	3793390	3.37E-05	6.5YrCancerDerived_Inh_FAH16to70	3.37E-05
1949	ALL	353963	3793307	3.37E-05	6.5YrCancerDerived_Inh_FAH16to70	3.37E-05
779	ALL	353773.1	3793118	3.37E-05	6.5YrCancerDerived_Inh_FAH16to70	3.37E-05
1924	ALL	353740.5	3793210	3.36E-05	6.5YrCancerDerived_Inh_FAH16to70	3.36E-05
2176	ALL	353726.5	3793345	3.36E-05	6.5YrCancerDerived_Inh_FAH16to70	3.36E-05
1950	ALL	353978	3793307	3.35E-05	6.5YrCancerDerived_Inh_FAH16to70	3.35E-05
590	ALL	353773.1	3792968	3.34E-05	6.5YrCancerDerived_Inh_FAH16to70	3.34E-05
1951	ALL	353993	3793307	3.33E-05	6.5YrCancerDerived_Inh_FAH16to70	3.33E-05
1894	ALL	353740.5	3793185	3.33E-05	6.5YrCancerDerived_Inh_FAH16to70	3.33E-05
1864	ALL	353740.5	3793160	3.30E-05	6.5YrCancerDerived_Inh_FAH16to70	3.30E-05
1834	ALL	353740.5	3793135	3.28E-05	6.5YrCancerDerived_Inh_FAH16to70	3.28E-05
1952	ALL	354008	3793307	3.28E-05	6.5YrCancerDerived_Inh_FAH16to70	3.28E-05
559	ALL	353773.1	3792943	3.28E-05	6.5YrCancerDerived_Inh_FAH16to70	3.28E-05
1804	ALL	353740.5	3793110	3.27E-05	6.5YrCancerDerived_Inh_FAH16to70	3.27E-05

1774	ALL	353740.5	3793085	3.26E-05	6.5YrCancerDerived_Inh_FAH16to70	3.26E-05
1744	ALL	353740.5	3793060	3.25E-05	6.5YrCancerDerived_Inh_FAH16to70	3.25E-05
974	ALL	353798.1	3793293	3.24E-05	6.5YrCancerDerived_Inh_FAH16to70	3.24E-05
1953	ALL	354023	3793307	3.20E-05	6.5YrCancerDerived_Inh_FAH16to70	3.20E-05
528	ALL	353773.1	3792918	3.19E-05	6.5YrCancerDerived_Inh_FAH16to70	3.19E-05
2151	ALL	353726.5	3793330	3.19E-05	6.5YrCancerDerived_Inh_FAH16to70	3.19E-05
2225	ALL	353711.5	3793375	3.14E-05	6.5YrCancerDerived_Inh_FAH16to70	3.14E-05
1046	ALL	354173.1	3793393	3.14E-05	6.5YrCancerDerived_Inh_FAH16to70	3.14E-05
994	ALL	353823.1	3793318	3.13E-05	6.5YrCancerDerived_Inh_FAH16to70	3.13E-05
497	ALL	353773.1	3792893	3.12E-05	6.5YrCancerDerived_Inh_FAH16to70	3.12E-05
1954	ALL	354038	3793307	3.11E-05	6.5YrCancerDerived_Inh_FAH16to70	3.11E-05
955	ALL	353798.1	3793268	3.09E-05	6.5YrCancerDerived_Inh_FAH16to70	3.09E-05
2126	ALL	353726.5	3793315	3.06E-05	6.5YrCancerDerived_Inh_FAH16to70	3.06E-05
466	ALL	353773.1	3792868	3.06E-05	6.5YrCancerDerived_Inh_FAH16to70	3.06E-05
2296	ALL	353696.5	3793420	3.03E-05	6.5YrCancerDerived_Inh_FAH16to70	3.03E-05
1943	ALL	353948	3793292	3.02E-05	6.5YrCancerDerived_Inh_FAH16to70	3.02E-05
1944	ALL	353963	3793292	3.02E-05	6.5YrCancerDerived_Inh_FAH16to70	3.02E-05
435	ALL	353773.1	3792843	3.01E-05	6.5YrCancerDerived_Inh_FAH16to70	3.01E-05
1945	ALL	353978	3793292	3.00E-05	6.5YrCancerDerived_Inh_FAH16to70	3.00E-05
1942	ALL	353933	3793292	2.98E-05	6.5YrCancerDerived_Inh_FAH16to70	2.98E-05
1946	ALL	353993	3793292	2.97E-05	6.5YrCancerDerived_Inh_FAH16to70	2.97E-05
2101	ALL	353726.5	3793300	2.97E-05	6.5YrCancerDerived_Inh_FAH16to70	2.97E-05
404	ALL	353773.1	3792818	2.96E-05	6.5YrCancerDerived_Inh_FAH16to70	2.96E-05
2200	ALL	353711.5	3793360	2.94E-05	6.5YrCancerDerived_Inh_FAH16to70	2.94E-05
1947	ALL	354008	3793292	2.93E-05	6.5YrCancerDerived_Inh_FAH16to70	2.93E-05
1062	ALL	354198.1	3793418	2.92E-05	6.5YrCancerDerived_Inh_FAH16to70	2.92E-05
373	ALL	353773.1	3792793	2.91E-05	6.5YrCancerDerived_Inh_FAH16to70	2.91E-05
2076	ALL	353726.5	3793285	2.90E-05	6.5YrCancerDerived_Inh_FAH16to70	2.90E-05
2272	ALL	353696.5	3793405	2.87E-05	6.5YrCancerDerived_Inh_FAH16to70	2.87E-05
1948	ALL	354023	3793292	2.87E-05	6.5YrCancerDerived_Inh_FAH16to70	2.87E-05
975	ALL	353823.1	3793293	2.86E-05	6.5YrCancerDerived_Inh_FAH16to70	2.86E-05
2051	ALL	353726.5	3793270	2.85E-05	6.5YrCancerDerived_Inh_FAH16to70	2.85E-05
342	ALL	353773.1	3792768	2.84E-05	6.5YrCancerDerived_Inh_FAH16to70	2.84E-05
908	ALL	353798.1	3793218	2.79E-05	6.5YrCancerDerived_Inh_FAH16to70	2.79E-05
2175	ALL	353711.5	3793345	2.78E-05	6.5YrCancerDerived_Inh_FAH16to70	2.78E-05
311	ALL	353773.1	3792743	2.77E-05	6.5YrCancerDerived_Inh_FAH16to70	2.77E-05
2248	ALL	353696.5	3793390	2.74E-05	6.5YrCancerDerived_Inh_FAH16to70	2.74E-05
1939	ALL	353963	3793277	2.72E-05	6.5YrCancerDerived_Inh_FAH16to70	2.72E-05
1938	ALL	353948	3793277	2.72E-05	6.5YrCancerDerived_Inh_FAH16to70	2.72E-05
1940	ALL	353978	3793277	2.71E-05	6.5YrCancerDerived_Inh_FAH16to70	2.71E-05
1030	ALL	354173.1	3793368	2.71E-05	6.5YrCancerDerived_Inh_FAH16to70	2.71E-05
1937	ALL	353933	3793277	2.70E-05	6.5YrCancerDerived_Inh_FAH16to70	2.70E-05
1941	ALL	353993	3793277	2.68E-05	6.5YrCancerDerived_Inh_FAH16to70	2.68E-05
280	ALL	353773.1	3792718	2.68E-05	6.5YrCancerDerived_Inh_FAH16to70	2.68E-05
1936	ALL	353918	3793277	2.67E-05	6.5YrCancerDerived_Inh_FAH16to70	2.67E-05
2150	ALL	353711.5	3793330	2.67E-05	6.5YrCancerDerived_Inh_FAH16to70	2.67E-05
2340	ALL	353681.5	3793450	2.65E-05	6.5YrCancerDerived_Inh_FAH16to70	2.65E-05

956	ALL	353823.1	3793268	2.65E-05	6.5YrCancerDerived_Inh_FAH16to70	2.65E-05
844	ALL	353798.1	3793168	2.63E-05	6.5YrCancerDerived_Inh_FAH16to70	2.63E-05
2224	ALL	353696.5	3793375	2.62E-05	6.5YrCancerDerived_Inh_FAH16to70	2.62E-05
2318	ALL	353681.5	3793435	2.60E-05	6.5YrCancerDerived_Inh_FAH16to70	2.60E-05
876	ALL	353798.1	3793193	2.60E-05	6.5YrCancerDerived_Inh_FAH16to70	2.60E-05
1047	ALL	354198.1	3793393	2.58E-05	6.5YrCancerDerived_Inh_FAH16to70	2.58E-05
812	ALL	353798.1	3793143	2.58E-05	6.5YrCancerDerived_Inh_FAH16to70	2.58E-05
2125	ALL	353711.5	3793315	2.58E-05	6.5YrCancerDerived_Inh_FAH16to70	2.58E-05
249	ALL	353773.1	3792693	2.55E-05	6.5YrCancerDerived_Inh_FAH16to70	2.55E-05
2295	ALL	353681.5	3793420	2.52E-05	6.5YrCancerDerived_Inh_FAH16to70	2.52E-05
2100	ALL	353711.5	3793300	2.50E-05	6.5YrCancerDerived_Inh_FAH16to70	2.50E-05
780	ALL	353798.1	3793118	2.50E-05	6.5YrCancerDerived_Inh_FAH16to70	2.50E-05
2199	ALL	353696.5	3793360	2.50E-05	6.5YrCancerDerived_Inh_FAH16to70	2.50E-05
1935	ALL	353963	3793262	2.48E-05	6.5YrCancerDerived_Inh_FAH16to70	2.48E-05
1934	ALL	353948	3793262	2.48E-05	6.5YrCancerDerived_Inh_FAH16to70	2.48E-05
1933	ALL	353933	3793262	2.47E-05	6.5YrCancerDerived_Inh_FAH16to70	2.47E-05
1932	ALL	353918	3793262	2.45E-05	6.5YrCancerDerived_Inh_FAH16to70	2.45E-05
1929	ALL	353715.5	3793235	2.45E-05	6.5YrCancerDerived_Inh_FAH16to70	2.45E-05
2075	ALL	353711.5	3793285	2.45E-05	6.5YrCancerDerived_Inh_FAH16to70	2.45E-05
748	ALL	353798.1	3793093	2.44E-05	6.5YrCancerDerived_Inh_FAH16to70	2.44E-05
2271	ALL	353681.5	3793405	2.43E-05	6.5YrCancerDerived_Inh_FAH16to70	2.43E-05
1923	ALL	353715.5	3793210	2.42E-05	6.5YrCancerDerived_Inh_FAH16to70	2.42E-05
2050	ALL	353711.5	3793270	2.41E-05	6.5YrCancerDerived_Inh_FAH16to70	2.41E-05
2174	ALL	353696.5	3793345	2.39E-05	6.5YrCancerDerived_Inh_FAH16to70	2.39E-05
716	ALL	353798.1	3793068	2.39E-05	6.5YrCancerDerived_Inh_FAH16to70	2.39E-05
1893	ALL	353715.5	3793185	2.39E-05	6.5YrCancerDerived_Inh_FAH16to70	2.39E-05
1063	ALL	354223.1	3793418	2.38E-05	6.5YrCancerDerived_Inh_FAH16to70	2.38E-05
1014	ALL	354173.1	3793343	2.36E-05	6.5YrCancerDerived_Inh_FAH16to70	2.36E-05
2247	ALL	353681.5	3793390	2.35E-05	6.5YrCancerDerived_Inh_FAH16to70	2.35E-05
1863	ALL	353715.5	3793160	2.35E-05	6.5YrCancerDerived_Inh_FAH16to70	2.35E-05
684	ALL	353798.1	3793043	2.35E-05	6.5YrCancerDerived_Inh_FAH16to70	2.35E-05
909	ALL	353823.1	3793218	2.33E-05	6.5YrCancerDerived_Inh_FAH16to70	2.33E-05
218	ALL	353773.1	3792668	2.33E-05	6.5YrCancerDerived_Inh_FAH16to70	2.33E-05
2149	ALL	353696.5	3793330	2.32E-05	6.5YrCancerDerived_Inh_FAH16to70	2.32E-05
1833	ALL	353715.5	3793135	2.32E-05	6.5YrCancerDerived_Inh_FAH16to70	2.32E-05
1031	ALL	354198.1	3793368	2.30E-05	6.5YrCancerDerived_Inh_FAH16to70	2.30E-05
1803	ALL	353715.5	3793110	2.29E-05	6.5YrCancerDerived_Inh_FAH16to70	2.29E-05
653	ALL	353798.1	3793018	2.29E-05	6.5YrCancerDerived_Inh_FAH16to70	2.29E-05
2339	ALL	353666.5	3793450	2.28E-05	6.5YrCancerDerived_Inh_FAH16to70	2.28E-05
2223	ALL	353681.5	3793375	2.27E-05	6.5YrCancerDerived_Inh_FAH16to70	2.27E-05
1773	ALL	353715.5	3793085	2.27E-05	6.5YrCancerDerived_Inh_FAH16to70	2.27E-05
2124	ALL	353696.5	3793315	2.26E-05	6.5YrCancerDerived_Inh_FAH16to70	2.26E-05
622	ALL	353798.1	3792993	2.24E-05	6.5YrCancerDerived_Inh_FAH16to70	2.24E-05
1743	ALL	353715.5	3793060	2.23E-05	6.5YrCancerDerived_Inh_FAH16to70	2.23E-05
2317	ALL	353666.5	3793435	2.22E-05	6.5YrCancerDerived_Inh_FAH16to70	2.22E-05
1714	ALL	353715.5	3793035	2.21E-05	6.5YrCancerDerived_Inh_FAH16to70	2.21E-05
2099	ALL	353696.5	3793300	2.20E-05	6.5YrCancerDerived_Inh_FAH16to70	2.20E-05

2198	ALL	353681.5	3793360	2.19E-05	6.5YrCancerDerived_Inh_FAH16to70	2.19E-05
1685	ALL	353715.5	3793010	2.19E-05	6.5YrCancerDerived_Inh_FAH16to70	2.19E-05
591	ALL	353798.1	3792968	2.19E-05	6.5YrCancerDerived_Inh_FAH16to70	2.19E-05
2294	ALL	353666.5	3793420	2.18E-05	6.5YrCancerDerived_Inh_FAH16to70	2.18E-05
1048	ALL	354223.1	3793393	2.17E-05	6.5YrCancerDerived_Inh_FAH16to70	2.17E-05
877	ALL	353823.1	3793193	2.17E-05	6.5YrCancerDerived_Inh_FAH16to70	2.17E-05
1656	ALL	353715.5	3792985	2.17E-05	6.5YrCancerDerived_Inh_FAH16to70	2.17E-05
2074	ALL	353696.5	3793285	2.16E-05	6.5YrCancerDerived_Inh_FAH16to70	2.16E-05
1627	ALL	353715.5	3792960	2.15E-05	6.5YrCancerDerived_Inh_FAH16to70	2.15E-05
1598	ALL	353715.5	3792935	2.13E-05	6.5YrCancerDerived_Inh_FAH16to70	2.13E-05
560	ALL	353798.1	3792943	2.13E-05	6.5YrCancerDerived_Inh_FAH16to70	2.13E-05
2270	ALL	353666.5	3793405	2.13E-05	6.5YrCancerDerived_Inh_FAH16to70	2.13E-05
910	ALL	353848.1	3793218	2.12E-05	6.5YrCancerDerived_Inh_FAH16to70	2.12E-05
845	ALL	353823.1	3793168	2.12E-05	6.5YrCancerDerived_Inh_FAH16to70	2.12E-05
2049	ALL	353696.5	3793270	2.12E-05	6.5YrCancerDerived_Inh_FAH16to70	2.12E-05
1569	ALL	353715.5	3792910	2.12E-05	6.5YrCancerDerived_Inh_FAH16to70	2.12E-05
2173	ALL	353681.5	3793345	2.11E-05	6.5YrCancerDerived_Inh_FAH16to70	2.11E-05
1540	ALL	353715.5	3792885	2.10E-05	6.5YrCancerDerived_Inh_FAH16to70	2.10E-05
2246	ALL	353666.5	3793390	2.08E-05	6.5YrCancerDerived_Inh_FAH16to70	2.08E-05
1511	ALL	353715.5	3792860	2.07E-05	6.5YrCancerDerived_Inh_FAH16to70	2.07E-05
995	ALL	354173.1	3793318	2.07E-05	6.5YrCancerDerived_Inh_FAH16to70	2.07E-05
529	ALL	353798.1	3792918	2.07E-05	6.5YrCancerDerived_Inh_FAH16to70	2.07E-05
813	ALL	353823.1	3793143	2.06E-05	6.5YrCancerDerived_Inh_FAH16to70	2.06E-05
2148	ALL	353681.5	3793330	2.06E-05	6.5YrCancerDerived_Inh_FAH16to70	2.06E-05
1015	ALL	354198.1	3793343	2.05E-05	6.5YrCancerDerived_Inh_FAH16to70	2.05E-05
1482	ALL	353715.5	3792835	2.05E-05	6.5YrCancerDerived_Inh_FAH16to70	2.05E-05
911	ALL	353873.1	3793218	2.03E-05	6.5YrCancerDerived_Inh_FAH16to70	2.03E-05
2360	ALL	353651.5	3793465	2.03E-05	6.5YrCancerDerived_Inh_FAH16to70	2.03E-05
2222	ALL	353666.5	3793375	2.02E-05	6.5YrCancerDerived_Inh_FAH16to70	2.02E-05
1453	ALL	353715.5	3792810	2.02E-05	6.5YrCancerDerived_Inh_FAH16to70	2.02E-05
498	ALL	353798.1	3792893	2.02E-05	6.5YrCancerDerived_Inh_FAH16to70	2.02E-05
2123	ALL	353681.5	3793315	2.01E-05	6.5YrCancerDerived_Inh_FAH16to70	2.01E-05
1064	ALL	354248.1	3793418	2.01E-05	6.5YrCancerDerived_Inh_FAH16to70	2.01E-05
2338	ALL	353651.5	3793450	2.01E-05	6.5YrCancerDerived_Inh_FAH16to70	2.01E-05
912	ALL	353898.1	3793218	2.00E-05	6.5YrCancerDerived_Inh_FAH16to70	2.00E-05
1931	ALL	353923.3	3793217	1.99E-05	6.5YrCancerDerived_Inh_FAH16to70	1.99E-05
1424	ALL	353715.5	3792785	1.99E-05	6.5YrCancerDerived_Inh_FAH16to70	1.99E-05
781	ALL	353823.1	3793118	1.99E-05	6.5YrCancerDerived_Inh_FAH16to70	1.99E-05
467	ALL	353798.1	3792868	1.98E-05	6.5YrCancerDerived_Inh_FAH16to70	1.98E-05
913	ALL	353948.1	3793218	1.98E-05	6.5YrCancerDerived_Inh_FAH16to70	1.98E-05
2316	ALL	353651.5	3793435	1.98E-05	6.5YrCancerDerived_Inh_FAH16to70	1.98E-05
2098	ALL	353681.5	3793300	1.97E-05	6.5YrCancerDerived_Inh_FAH16to70	1.97E-05
878	ALL	353848.1	3793193	1.97E-05	6.5YrCancerDerived_Inh_FAH16to70	1.97E-05
1032	ALL	354223.1	3793368	1.96E-05	6.5YrCancerDerived_Inh_FAH16to70	1.96E-05
2197	ALL	353666.5	3793360	1.96E-05	6.5YrCancerDerived_Inh_FAH16to70	1.96E-05
914	ALL	353973.1	3793218	1.96E-05	6.5YrCancerDerived_Inh_FAH16to70	1.96E-05
1395	ALL	353715.5	3792760	1.96E-05	6.5YrCancerDerived_Inh_FAH16to70	1.96E-05

2293	ALL	353651.5	3793420	1.95E-05	6.5YrCancerDerived_Inh_FAH16to70	1.95E-05
436	ALL	353798.1	3792843	1.95E-05	6.5YrCancerDerived_Inh_FAH16to70	1.95E-05
1928	ALL	353690.5	3793235	1.94E-05	6.5YrCancerDerived_Inh_FAH16to70	1.94E-05
2436	ALL	353636.5	3793525	1.94E-05	6.5YrCancerDerived_Inh_FAH16to70	1.94E-05
2073	ALL	353681.5	3793285	1.94E-05	6.5YrCancerDerived_Inh_FAH16to70	1.94E-05
915	ALL	353998.1	3793218	1.93E-05	6.5YrCancerDerived_Inh_FAH16to70	1.93E-05
2417	ALL	353636.5	3793510	1.92E-05	6.5YrCancerDerived_Inh_FAH16to70	1.92E-05
749	ALL	353823.1	3793093	1.92E-05	6.5YrCancerDerived_Inh_FAH16to70	1.92E-05
2269	ALL	353651.5	3793405	1.91E-05	6.5YrCancerDerived_Inh_FAH16to70	1.91E-05
405	ALL	353798.1	3792818	1.91E-05	6.5YrCancerDerived_Inh_FAH16to70	1.91E-05
1922	ALL	353690.5	3793210	1.91E-05	6.5YrCancerDerived_Inh_FAH16to70	1.91E-05
1366	ALL	353715.5	3792735	1.90E-05	6.5YrCancerDerived_Inh_FAH16to70	1.90E-05
2172	ALL	353666.5	3793345	1.90E-05	6.5YrCancerDerived_Inh_FAH16to70	1.90E-05
2048	ALL	353681.5	3793270	1.90E-05	6.5YrCancerDerived_Inh_FAH16to70	1.90E-05
187	ALL	353773.1	3792643	1.89E-05	6.5YrCancerDerived_Inh_FAH16to70	1.89E-05
2398	ALL	353636.5	3793495	1.89E-05	6.5YrCancerDerived_Inh_FAH16to70	1.89E-05
916	ALL	354023.1	3793218	1.88E-05	6.5YrCancerDerived_Inh_FAH16to70	1.88E-05
879	ALL	353873.1	3793193	1.88E-05	6.5YrCancerDerived_Inh_FAH16to70	1.88E-05
2245	ALL	353651.5	3793390	1.87E-05	6.5YrCancerDerived_Inh_FAH16to70	1.87E-05
1892	ALL	353690.5	3793185	1.87E-05	6.5YrCancerDerived_Inh_FAH16to70	1.87E-05
1049	ALL	354248.1	3793393	1.87E-05	6.5YrCancerDerived_Inh_FAH16to70	1.87E-05
846	ALL	353848.1	3793168	1.86E-05	6.5YrCancerDerived_Inh_FAH16to70	1.86E-05
374	ALL	353798.1	3792793	1.86E-05	6.5YrCancerDerived_Inh_FAH16to70	1.86E-05
717	ALL	353823.1	3793068	1.86E-05	6.5YrCancerDerived_Inh_FAH16to70	1.86E-05
2147	ALL	353666.5	3793330	1.86E-05	6.5YrCancerDerived_Inh_FAH16to70	1.86E-05
2379	ALL	353636.5	3793480	1.85E-05	6.5YrCancerDerived_Inh_FAH16to70	1.85E-05
1862	ALL	353690.5	3793160	1.84E-05	6.5YrCancerDerived_Inh_FAH16to70	1.84E-05
996	ALL	354198.1	3793318	1.83E-05	6.5YrCancerDerived_Inh_FAH16to70	1.83E-05
2221	ALL	353651.5	3793375	1.83E-05	6.5YrCancerDerived_Inh_FAH16to70	1.83E-05
976	ALL	354173.1	3793293	1.82E-05	6.5YrCancerDerived_Inh_FAH16to70	1.82E-05
880	ALL	353898.1	3793193	1.82E-05	6.5YrCancerDerived_Inh_FAH16to70	1.82E-05
1337	ALL	353715.5	3792710	1.82E-05	6.5YrCancerDerived_Inh_FAH16to70	1.82E-05
2122	ALL	353666.5	3793315	1.82E-05	6.5YrCancerDerived_Inh_FAH16to70	1.82E-05
2359	ALL	353636.5	3793465	1.82E-05	6.5YrCancerDerived_Inh_FAH16to70	1.82E-05
917	ALL	354048.1	3793218	1.81E-05	6.5YrCancerDerived_Inh_FAH16to70	1.81E-05
1832	ALL	353690.5	3793135	1.81E-05	6.5YrCancerDerived_Inh_FAH16to70	1.81E-05
2337	ALL	353636.5	3793450	1.81E-05	6.5YrCancerDerived_Inh_FAH16to70	1.81E-05
685	ALL	353823.1	3793043	1.81E-05	6.5YrCancerDerived_Inh_FAH16to70	1.81E-05
343	ALL	353798.1	3792768	1.80E-05	6.5YrCancerDerived_Inh_FAH16to70	1.80E-05
814	ALL	353848.1	3793143	1.80E-05	6.5YrCancerDerived_Inh_FAH16to70	1.80E-05
2454	ALL	353621.5	3793540	1.79E-05	6.5YrCancerDerived_Inh_FAH16to70	1.79E-05
881	ALL	353923.1	3793193	1.79E-05	6.5YrCancerDerived_Inh_FAH16to70	1.79E-05
2315	ALL	353636.5	3793435	1.79E-05	6.5YrCancerDerived_Inh_FAH16to70	1.79E-05
2097	ALL	353666.5	3793300	1.79E-05	6.5YrCancerDerived_Inh_FAH16to70	1.79E-05
1016	ALL	354223.1	3793343	1.78E-05	6.5YrCancerDerived_Inh_FAH16to70	1.78E-05
882	ALL	353948.1	3793193	1.78E-05	6.5YrCancerDerived_Inh_FAH16to70	1.78E-05
2435	ALL	353621.5	3793525	1.78E-05	6.5YrCancerDerived_Inh_FAH16to70	1.78E-05

1802	ALL	353690.5	3793110	1.78E-05	6.5YrCancerDerived_Inh_FAH16to70	1.78E-05
2196	ALL	353651.5	3793360	1.78E-05	6.5YrCancerDerived_Inh_FAH16to70	1.78E-05
2292	ALL	353636.5	3793420	1.77E-05	6.5YrCancerDerived_Inh_FAH16to70	1.77E-05
2416	ALL	353621.5	3793510	1.76E-05	6.5YrCancerDerived_Inh_FAH16to70	1.76E-05
654	ALL	353823.1	3793018	1.76E-05	6.5YrCancerDerived_Inh_FAH16to70	1.76E-05
2072	ALL	353666.5	3793285	1.75E-05	6.5YrCancerDerived_Inh_FAH16to70	1.75E-05
883	ALL	353973.1	3793193	1.75E-05	6.5YrCancerDerived_Inh_FAH16to70	1.75E-05
1772	ALL	353690.5	3793085	1.75E-05	6.5YrCancerDerived_Inh_FAH16to70	1.75E-05
847	ALL	353873.1	3793168	1.75E-05	6.5YrCancerDerived_Inh_FAH16to70	1.75E-05
312	ALL	353798.1	3792743	1.74E-05	6.5YrCancerDerived_Inh_FAH16to70	1.74E-05
2268	ALL	353636.5	3793405	1.74E-05	6.5YrCancerDerived_Inh_FAH16to70	1.74E-05
2397	ALL	353621.5	3793495	1.73E-05	6.5YrCancerDerived_Inh_FAH16to70	1.73E-05
1033	ALL	354248.1	3793368	1.73E-05	6.5YrCancerDerived_Inh_FAH16to70	1.73E-05
2171	ALL	353651.5	3793345	1.72E-05	6.5YrCancerDerived_Inh_FAH16to70	1.72E-05
1742	ALL	353690.5	3793060	1.72E-05	6.5YrCancerDerived_Inh_FAH16to70	1.72E-05
884	ALL	353998.1	3793193	1.72E-05	6.5YrCancerDerived_Inh_FAH16to70	1.72E-05
1065	ALL	354273.1	3793418	1.72E-05	6.5YrCancerDerived_Inh_FAH16to70	1.72E-05
782	ALL	353848.1	3793118	1.72E-05	6.5YrCancerDerived_Inh_FAH16to70	1.72E-05
918	ALL	354073.1	3793218	1.72E-05	6.5YrCancerDerived_Inh_FAH16to70	1.72E-05
2047	ALL	353666.5	3793270	1.71E-05	6.5YrCancerDerived_Inh_FAH16to70	1.71E-05
623	ALL	353823.1	3792993	1.71E-05	6.5YrCancerDerived_Inh_FAH16to70	1.71E-05
2244	ALL	353636.5	3793390	1.71E-05	6.5YrCancerDerived_Inh_FAH16to70	1.71E-05
2378	ALL	353621.5	3793480	1.70E-05	6.5YrCancerDerived_Inh_FAH16to70	1.70E-05
1713	ALL	353690.5	3793035	1.69E-05	6.5YrCancerDerived_Inh_FAH16to70	1.69E-05
2146	ALL	353651.5	3793330	1.69E-05	6.5YrCancerDerived_Inh_FAH16to70	1.69E-05
848	ALL	353898.1	3793168	1.68E-05	6.5YrCancerDerived_Inh_FAH16to70	1.68E-05
1308	ALL	353715.5	3792685	1.68E-05	6.5YrCancerDerived_Inh_FAH16to70	1.68E-05
885	ALL	354023.1	3793193	1.68E-05	6.5YrCancerDerived_Inh_FAH16to70	1.68E-05
1684	ALL	353690.5	3793010	1.68E-05	6.5YrCancerDerived_Inh_FAH16to70	1.68E-05
2220	ALL	353636.5	3793375	1.67E-05	6.5YrCancerDerived_Inh_FAH16to70	1.67E-05
281	ALL	353798.1	3792718	1.67E-05	6.5YrCancerDerived_Inh_FAH16to70	1.67E-05
2358	ALL	353621.5	3793465	1.67E-05	6.5YrCancerDerived_Inh_FAH16to70	1.67E-05
592	ALL	353823.1	3792968	1.66E-05	6.5YrCancerDerived_Inh_FAH16to70	1.66E-05
815	ALL	353873.1	3793143	1.66E-05	6.5YrCancerDerived_Inh_FAH16to70	1.66E-05
2121	ALL	353651.5	3793315	1.66E-05	6.5YrCancerDerived_Inh_FAH16to70	1.66E-05
2336	ALL	353621.5	3793450	1.66E-05	6.5YrCancerDerived_Inh_FAH16to70	1.66E-05
1655	ALL	353690.5	3792985	1.65E-05	6.5YrCancerDerived_Inh_FAH16to70	1.65E-05
750	ALL	353848.1	3793093	1.65E-05	6.5YrCancerDerived_Inh_FAH16to70	1.65E-05
2471	ALL	353606.5	3793555	1.64E-05	6.5YrCancerDerived_Inh_FAH16to70	1.64E-05
977	ALL	354198.1	3793293	1.64E-05	6.5YrCancerDerived_Inh_FAH16to70	1.64E-05
2314	ALL	353621.5	3793435	1.64E-05	6.5YrCancerDerived_Inh_FAH16to70	1.64E-05
849	ALL	353923.1	3793168	1.64E-05	6.5YrCancerDerived_Inh_FAH16to70	1.64E-05
919	ALL	354098.1	3793218	1.64E-05	6.5YrCancerDerived_Inh_FAH16to70	1.64E-05
2453	ALL	353606.5	3793540	1.63E-05	6.5YrCancerDerived_Inh_FAH16to70	1.63E-05
997	ALL	354223.1	3793318	1.63E-05	6.5YrCancerDerived_Inh_FAH16to70	1.63E-05
1050	ALL	354273.1	3793393	1.63E-05	6.5YrCancerDerived_Inh_FAH16to70	1.63E-05
2096	ALL	353651.5	3793300	1.63E-05	6.5YrCancerDerived_Inh_FAH16to70	1.63E-05

1626	ALL	353690.5	3792960	1.63E-05	6.5YrCancerDerived_Inh_FAH16to70	1.63E-05
1927	ALL	353665.5	3793235	1.63E-05	6.5YrCancerDerived_Inh_FAH16to70	1.63E-05
2195	ALL	353636.5	3793360	1.63E-05	6.5YrCancerDerived_Inh_FAH16to70	1.63E-05
957	ALL	354173.1	3793268	1.62E-05	6.5YrCancerDerived_Inh_FAH16to70	1.62E-05
850	ALL	353948.1	3793168	1.62E-05	6.5YrCancerDerived_Inh_FAH16to70	1.62E-05
2291	ALL	353621.5	3793420	1.62E-05	6.5YrCancerDerived_Inh_FAH16to70	1.62E-05
886	ALL	354048.1	3793193	1.62E-05	6.5YrCancerDerived_Inh_FAH16to70	1.62E-05
2434	ALL	353606.5	3793525	1.62E-05	6.5YrCancerDerived_Inh_FAH16to70	1.62E-05
561	ALL	353823.1	3792943	1.61E-05	6.5YrCancerDerived_Inh_FAH16to70	1.61E-05
1597	ALL	353690.5	3792935	1.61E-05	6.5YrCancerDerived_Inh_FAH16to70	1.61E-05
2071	ALL	353651.5	3793285	1.60E-05	6.5YrCancerDerived_Inh_FAH16to70	1.60E-05
2267	ALL	353621.5	3793405	1.59E-05	6.5YrCancerDerived_Inh_FAH16to70	1.59E-05
1017	ALL	354248.1	3793343	1.59E-05	6.5YrCancerDerived_Inh_FAH16to70	1.59E-05
1568	ALL	353690.5	3792910	1.59E-05	6.5YrCancerDerived_Inh_FAH16to70	1.59E-05
1921	ALL	353665.5	3793210	1.59E-05	6.5YrCancerDerived_Inh_FAH16to70	1.59E-05
2415	ALL	353606.5	3793510	1.59E-05	6.5YrCancerDerived_Inh_FAH16to70	1.59E-05
851	ALL	353973.1	3793168	1.59E-05	6.5YrCancerDerived_Inh_FAH16to70	1.59E-05
718	ALL	353848.1	3793068	1.59E-05	6.5YrCancerDerived_Inh_FAH16to70	1.59E-05
2170	ALL	353636.5	3793345	1.58E-05	6.5YrCancerDerived_Inh_FAH16to70	1.58E-05
250	ALL	353798.1	3792693	1.58E-05	6.5YrCancerDerived_Inh_FAH16to70	1.58E-05
783	ALL	353873.1	3793118	1.57E-05	6.5YrCancerDerived_Inh_FAH16to70	1.57E-05
1539	ALL	353690.5	3792885	1.57E-05	6.5YrCancerDerived_Inh_FAH16to70	1.57E-05
530	ALL	353823.1	3792918	1.57E-05	6.5YrCancerDerived_Inh_FAH16to70	1.57E-05
2396	ALL	353606.5	3793495	1.57E-05	6.5YrCancerDerived_Inh_FAH16to70	1.57E-05
816	ALL	353898.1	3793143	1.57E-05	6.5YrCancerDerived_Inh_FAH16to70	1.57E-05
2243	ALL	353621.5	3793390	1.57E-05	6.5YrCancerDerived_Inh_FAH16to70	1.57E-05
2046	ALL	353651.5	3793270	1.57E-05	6.5YrCancerDerived_Inh_FAH16to70	1.57E-05
1891	ALL	353665.5	3793185	1.56E-05	6.5YrCancerDerived_Inh_FAH16to70	1.56E-05
2377	ALL	353606.5	3793480	1.56E-05	6.5YrCancerDerived_Inh_FAH16to70	1.56E-05
852	ALL	353998.1	3793168	1.56E-05	6.5YrCancerDerived_Inh_FAH16to70	1.56E-05
2145	ALL	353636.5	3793330	1.55E-05	6.5YrCancerDerived_Inh_FAH16to70	1.55E-05
920	ALL	354123.1	3793218	1.54E-05	6.5YrCancerDerived_Inh_FAH16to70	1.54E-05
2357	ALL	353606.5	3793465	1.54E-05	6.5YrCancerDerived_Inh_FAH16to70	1.54E-05
1510	ALL	353690.5	3792860	1.54E-05	6.5YrCancerDerived_Inh_FAH16to70	1.54E-05
887	ALL	354073.1	3793193	1.54E-05	6.5YrCancerDerived_Inh_FAH16to70	1.54E-05
2219	ALL	353621.5	3793375	1.54E-05	6.5YrCancerDerived_Inh_FAH16to70	1.54E-05
1861	ALL	353665.5	3793160	1.53E-05	6.5YrCancerDerived_Inh_FAH16to70	1.53E-05
1034	ALL	354273.1	3793368	1.53E-05	6.5YrCancerDerived_Inh_FAH16to70	1.53E-05
499	ALL	353823.1	3792893	1.53E-05	6.5YrCancerDerived_Inh_FAH16to70	1.53E-05
686	ALL	353848.1	3793043	1.53E-05	6.5YrCancerDerived_Inh_FAH16to70	1.53E-05
2335	ALL	353606.5	3793450	1.53E-05	6.5YrCancerDerived_Inh_FAH16to70	1.53E-05
2120	ALL	353636.5	3793315	1.52E-05	6.5YrCancerDerived_Inh_FAH16to70	1.52E-05
2487	ALL	353591.5	3793570	1.52E-05	6.5YrCancerDerived_Inh_FAH16to70	1.52E-05
853	ALL	354023.1	3793168	1.52E-05	6.5YrCancerDerived_Inh_FAH16to70	1.52E-05
817	ALL	353923.1	3793143	1.51E-05	6.5YrCancerDerived_Inh_FAH16to70	1.51E-05
1481	ALL	353690.5	3792835	1.51E-05	6.5YrCancerDerived_Inh_FAH16to70	1.51E-05
2313	ALL	353606.5	3793435	1.51E-05	6.5YrCancerDerived_Inh_FAH16to70	1.51E-05

2470	ALL	353591.5	3793555	1.50E-05	6.5YrCancerDerived_Inh_FAH16to70	1.50E-05
1066	ALL	354298.1	3793418	1.50E-05	6.5YrCancerDerived_Inh_FAH16to70	1.50E-05
1831	ALL	353665.5	3793135	1.50E-05	6.5YrCancerDerived_Inh_FAH16to70	1.50E-05
2095	ALL	353636.5	3793300	1.50E-05	6.5YrCancerDerived_Inh_FAH16to70	1.50E-05
2194	ALL	353621.5	3793360	1.50E-05	6.5YrCancerDerived_Inh_FAH16to70	1.50E-05
468	ALL	353823.1	3792868	1.49E-05	6.5YrCancerDerived_Inh_FAH16to70	1.49E-05
2290	ALL	353606.5	3793420	1.49E-05	6.5YrCancerDerived_Inh_FAH16to70	1.49E-05
2452	ALL	353591.5	3793540	1.49E-05	6.5YrCancerDerived_Inh_FAH16to70	1.49E-05
751	ALL	353873.1	3793093	1.48E-05	6.5YrCancerDerived_Inh_FAH16to70	1.48E-05
1452	ALL	353690.5	3792810	1.48E-05	6.5YrCancerDerived_Inh_FAH16to70	1.48E-05
818	ALL	353948.1	3793143	1.48E-05	6.5YrCancerDerived_Inh_FAH16to70	1.48E-05
978	ALL	354223.1	3793293	1.48E-05	6.5YrCancerDerived_Inh_FAH16to70	1.48E-05
1801	ALL	353665.5	3793110	1.48E-05	6.5YrCancerDerived_Inh_FAH16to70	1.48E-05
958	ALL	354198.1	3793268	1.47E-05	6.5YrCancerDerived_Inh_FAH16to70	1.47E-05
2070	ALL	353636.5	3793285	1.47E-05	6.5YrCancerDerived_Inh_FAH16to70	1.47E-05
655	ALL	353848.1	3793018	1.47E-05	6.5YrCancerDerived_Inh_FAH16to70	1.47E-05
784	ALL	353898.1	3793118	1.47E-05	6.5YrCancerDerived_Inh_FAH16to70	1.47E-05
998	ALL	354248.1	3793318	1.47E-05	6.5YrCancerDerived_Inh_FAH16to70	1.47E-05
2266	ALL	353606.5	3793405	1.47E-05	6.5YrCancerDerived_Inh_FAH16to70	1.47E-05
2433	ALL	353591.5	3793525	1.47E-05	6.5YrCancerDerived_Inh_FAH16to70	1.47E-05
888	ALL	354098.1	3793193	1.47E-05	6.5YrCancerDerived_Inh_FAH16to70	1.47E-05
938	ALL	354173.1	3793243	1.46E-05	6.5YrCancerDerived_Inh_FAH16to70	1.46E-05
854	ALL	354048.1	3793168	1.46E-05	6.5YrCancerDerived_Inh_FAH16to70	1.46E-05
437	ALL	353823.1	3792843	1.46E-05	6.5YrCancerDerived_Inh_FAH16to70	1.46E-05
2169	ALL	353621.5	3793345	1.45E-05	6.5YrCancerDerived_Inh_FAH16to70	1.45E-05
819	ALL	353973.1	3793143	1.45E-05	6.5YrCancerDerived_Inh_FAH16to70	1.45E-05
1423	ALL	353690.5	3792785	1.45E-05	6.5YrCancerDerived_Inh_FAH16to70	1.45E-05
1771	ALL	353665.5	3793085	1.45E-05	6.5YrCancerDerived_Inh_FAH16to70	1.45E-05
1279	ALL	353715.5	3792660	1.45E-05	6.5YrCancerDerived_Inh_FAH16to70	1.45E-05
2414	ALL	353591.5	3793510	1.45E-05	6.5YrCancerDerived_Inh_FAH16to70	1.45E-05
2242	ALL	353606.5	3793390	1.44E-05	6.5YrCancerDerived_Inh_FAH16to70	1.44E-05
2045	ALL	353636.5	3793270	1.44E-05	6.5YrCancerDerived_Inh_FAH16to70	1.44E-05
219	ALL	353798.1	3792668	1.44E-05	6.5YrCancerDerived_Inh_FAH16to70	1.44E-05
2376	ALL	353591.5	3793480	1.43E-05	6.5YrCancerDerived_Inh_FAH16to70	1.43E-05
1051	ALL	354298.1	3793393	1.43E-05	6.5YrCancerDerived_Inh_FAH16to70	1.43E-05
921	ALL	354148.1	3793218	1.43E-05	6.5YrCancerDerived_Inh_FAH16to70	1.43E-05
2395	ALL	353591.5	3793495	1.43E-05	6.5YrCancerDerived_Inh_FAH16to70	1.43E-05
2356	ALL	353591.5	3793465	1.43E-05	6.5YrCancerDerived_Inh_FAH16to70	1.43E-05
2144	ALL	353621.5	3793330	1.43E-05	6.5YrCancerDerived_Inh_FAH16to70	1.43E-05
1018	ALL	354273.1	3793343	1.43E-05	6.5YrCancerDerived_Inh_FAH16to70	1.43E-05
719	ALL	353873.1	3793068	1.42E-05	6.5YrCancerDerived_Inh_FAH16to70	1.42E-05
624	ALL	353848.1	3792993	1.42E-05	6.5YrCancerDerived_Inh_FAH16to70	1.42E-05
406	ALL	353823.1	3792818	1.42E-05	6.5YrCancerDerived_Inh_FAH16to70	1.42E-05
1741	ALL	353665.5	3793060	1.42E-05	6.5YrCancerDerived_Inh_FAH16to70	1.42E-05
820	ALL	353998.1	3793143	1.42E-05	6.5YrCancerDerived_Inh_FAH16to70	1.42E-05
2334	ALL	353591.5	3793450	1.42E-05	6.5YrCancerDerived_Inh_FAH16to70	1.42E-05
2218	ALL	353606.5	3793375	1.41E-05	6.5YrCancerDerived_Inh_FAH16to70	1.41E-05

785	ALL	353923.1	3793118	1.41E-05	6.5YrCancerDerived_Inh_FAH16to70	1.41E-05
1926	ALL	353640.5	3793235	1.41E-05	6.5YrCancerDerived_Inh_FAH16to70	1.41E-05
2119	ALL	353621.5	3793315	1.41E-05	6.5YrCancerDerived_Inh_FAH16to70	1.41E-05
1394	ALL	353690.5	3792760	1.41E-05	6.5YrCancerDerived_Inh_FAH16to70	1.41E-05
2312	ALL	353591.5	3793435	1.40E-05	6.5YrCancerDerived_Inh_FAH16to70	1.40E-05
889	ALL	354123.1	3793193	1.40E-05	6.5YrCancerDerived_Inh_FAH16to70	1.40E-05
855	ALL	354073.1	3793168	1.40E-05	6.5YrCancerDerived_Inh_FAH16to70	1.40E-05
1712	ALL	353665.5	3793035	1.39E-05	6.5YrCancerDerived_Inh_FAH16to70	1.39E-05
2486	ALL	353576.5	3793570	1.39E-05	6.5YrCancerDerived_Inh_FAH16to70	1.39E-05
2094	ALL	353621.5	3793300	1.38E-05	6.5YrCancerDerived_Inh_FAH16to70	1.38E-05
593	ALL	353848.1	3792968	1.38E-05	6.5YrCancerDerived_Inh_FAH16to70	1.38E-05
2289	ALL	353591.5	3793420	1.38E-05	6.5YrCancerDerived_Inh_FAH16to70	1.38E-05
375	ALL	353823.1	3792793	1.38E-05	6.5YrCancerDerived_Inh_FAH16to70	1.38E-05
821	ALL	354023.1	3793143	1.38E-05	6.5YrCancerDerived_Inh_FAH16to70	1.38E-05
1683	ALL	353665.5	3793010	1.38E-05	6.5YrCancerDerived_Inh_FAH16to70	1.38E-05
752	ALL	353898.1	3793093	1.38E-05	6.5YrCancerDerived_Inh_FAH16to70	1.38E-05
2193	ALL	353606.5	3793360	1.38E-05	6.5YrCancerDerived_Inh_FAH16to70	1.38E-05
1920	ALL	353640.5	3793210	1.38E-05	6.5YrCancerDerived_Inh_FAH16to70	1.38E-05
2469	ALL	353576.5	3793555	1.38E-05	6.5YrCancerDerived_Inh_FAH16to70	1.38E-05
786	ALL	353948.1	3793118	1.37E-05	6.5YrCancerDerived_Inh_FAH16to70	1.37E-05
687	ALL	353873.1	3793043	1.37E-05	6.5YrCancerDerived_Inh_FAH16to70	1.37E-05
2451	ALL	353576.5	3793540	1.37E-05	6.5YrCancerDerived_Inh_FAH16to70	1.37E-05
2069	ALL	353621.5	3793285	1.36E-05	6.5YrCancerDerived_Inh_FAH16to70	1.36E-05
2265	ALL	353591.5	3793405	1.36E-05	6.5YrCancerDerived_Inh_FAH16to70	1.36E-05
1035	ALL	354298.1	3793368	1.36E-05	6.5YrCancerDerived_Inh_FAH16to70	1.36E-05
2432	ALL	353576.5	3793525	1.35E-05	6.5YrCancerDerived_Inh_FAH16to70	1.35E-05
1654	ALL	353665.5	3792985	1.35E-05	6.5YrCancerDerived_Inh_FAH16to70	1.35E-05
1365	ALL	353690.5	3792735	1.35E-05	6.5YrCancerDerived_Inh_FAH16to70	1.35E-05
979	ALL	354248.1	3793293	1.35E-05	6.5YrCancerDerived_Inh_FAH16to70	1.35E-05
939	ALL	354198.1	3793243	1.35E-05	6.5YrCancerDerived_Inh_FAH16to70	1.35E-05
959	ALL	354223.1	3793268	1.35E-05	6.5YrCancerDerived_Inh_FAH16to70	1.35E-05
2168	ALL	353606.5	3793345	1.35E-05	6.5YrCancerDerived_Inh_FAH16to70	1.35E-05
1890	ALL	353640.5	3793185	1.35E-05	6.5YrCancerDerived_Inh_FAH16to70	1.35E-05
2413	ALL	353576.5	3793510	1.34E-05	6.5YrCancerDerived_Inh_FAH16to70	1.34E-05
562	ALL	353848.1	3792943	1.34E-05	6.5YrCancerDerived_Inh_FAH16to70	1.34E-05
787	ALL	353973.1	3793118	1.34E-05	6.5YrCancerDerived_Inh_FAH16to70	1.34E-05
2394	ALL	353576.5	3793495	1.34E-05	6.5YrCancerDerived_Inh_FAH16to70	1.34E-05
2375	ALL	353576.5	3793480	1.34E-05	6.5YrCancerDerived_Inh_FAH16to70	1.34E-05
922	ALL	354173.1	3793218	1.33E-05	6.5YrCancerDerived_Inh_FAH16to70	1.33E-05
822	ALL	354048.1	3793143	1.33E-05	6.5YrCancerDerived_Inh_FAH16to70	1.33E-05
344	ALL	353823.1	3792768	1.33E-05	6.5YrCancerDerived_Inh_FAH16to70	1.33E-05
2044	ALL	353621.5	3793270	1.33E-05	6.5YrCancerDerived_Inh_FAH16to70	1.33E-05
856	ALL	354098.1	3793168	1.33E-05	6.5YrCancerDerived_Inh_FAH16to70	1.33E-05
2355	ALL	353576.5	3793465	1.33E-05	6.5YrCancerDerived_Inh_FAH16to70	1.33E-05
999	ALL	354273.1	3793318	1.33E-05	6.5YrCancerDerived_Inh_FAH16to70	1.33E-05
2241	ALL	353591.5	3793390	1.33E-05	6.5YrCancerDerived_Inh_FAH16to70	1.33E-05
1625	ALL	353665.5	3792960	1.33E-05	6.5YrCancerDerived_Inh_FAH16to70	1.33E-05

1067	ALL	354323.1	3793418	1.32E-05	6.5YrCancerDerived_Inh_FAH16to70	1.32E-05
753	ALL	353923.1	3793093	1.32E-05	6.5YrCancerDerived_Inh_FAH16to70	1.32E-05
2143	ALL	353606.5	3793330	1.32E-05	6.5YrCancerDerived_Inh_FAH16to70	1.32E-05
720	ALL	353898.1	3793068	1.32E-05	6.5YrCancerDerived_Inh_FAH16to70	1.32E-05
1860	ALL	353640.5	3793160	1.32E-05	6.5YrCancerDerived_Inh_FAH16to70	1.32E-05
2333	ALL	353576.5	3793450	1.31E-05	6.5YrCancerDerived_Inh_FAH16to70	1.31E-05
788	ALL	353998.1	3793118	1.31E-05	6.5YrCancerDerived_Inh_FAH16to70	1.31E-05
656	ALL	353873.1	3793018	1.31E-05	6.5YrCancerDerived_Inh_FAH16to70	1.31E-05
1596	ALL	353665.5	3792935	1.30E-05	6.5YrCancerDerived_Inh_FAH16to70	1.30E-05
890	ALL	354148.1	3793193	1.30E-05	6.5YrCancerDerived_Inh_FAH16to70	1.30E-05
2118	ALL	353606.5	3793315	1.30E-05	6.5YrCancerDerived_Inh_FAH16to70	1.30E-05
531	ALL	353848.1	3792918	1.30E-05	6.5YrCancerDerived_Inh_FAH16to70	1.30E-05
2217	ALL	353591.5	3793375	1.30E-05	6.5YrCancerDerived_Inh_FAH16to70	1.30E-05
1830	ALL	353640.5	3793135	1.29E-05	6.5YrCancerDerived_Inh_FAH16to70	1.29E-05
2311	ALL	353576.5	3793435	1.29E-05	6.5YrCancerDerived_Inh_FAH16to70	1.29E-05
1567	ALL	353665.5	3792910	1.28E-05	6.5YrCancerDerived_Inh_FAH16to70	1.28E-05
754	ALL	353948.1	3793093	1.28E-05	6.5YrCancerDerived_Inh_FAH16to70	1.28E-05
1019	ALL	354298.1	3793343	1.28E-05	6.5YrCancerDerived_Inh_FAH16to70	1.28E-05
2093	ALL	353606.5	3793300	1.28E-05	6.5YrCancerDerived_Inh_FAH16to70	1.28E-05
313	ALL	353823.1	3792743	1.28E-05	6.5YrCancerDerived_Inh_FAH16to70	1.28E-05
823	ALL	354073.1	3793143	1.28E-05	6.5YrCancerDerived_Inh_FAH16to70	1.28E-05
2485	ALL	353561.5	3793570	1.28E-05	6.5YrCancerDerived_Inh_FAH16to70	1.28E-05
857	ALL	354123.1	3793168	1.27E-05	6.5YrCancerDerived_Inh_FAH16to70	1.27E-05
1052	ALL	354323.1	3793393	1.27E-05	6.5YrCancerDerived_Inh_FAH16to70	1.27E-05
2468	ALL	353561.5	3793555	1.27E-05	6.5YrCancerDerived_Inh_FAH16to70	1.27E-05
2192	ALL	353591.5	3793360	1.27E-05	6.5YrCancerDerived_Inh_FAH16to70	1.27E-05
1336	ALL	353690.5	3792710	1.27E-05	6.5YrCancerDerived_Inh_FAH16to70	1.27E-05
789	ALL	354023.1	3793118	1.27E-05	6.5YrCancerDerived_Inh_FAH16to70	1.27E-05
2288	ALL	353576.5	3793420	1.27E-05	6.5YrCancerDerived_Inh_FAH16to70	1.27E-05
2450	ALL	353561.5	3793540	1.27E-05	6.5YrCancerDerived_Inh_FAH16to70	1.27E-05
1800	ALL	353640.5	3793110	1.27E-05	6.5YrCancerDerived_Inh_FAH16to70	1.27E-05
1538	ALL	353665.5	3792885	1.26E-05	6.5YrCancerDerived_Inh_FAH16to70	1.26E-05
2431	ALL	353561.5	3793525	1.26E-05	6.5YrCancerDerived_Inh_FAH16to70	1.26E-05
2068	ALL	353606.5	3793285	1.26E-05	6.5YrCancerDerived_Inh_FAH16to70	1.26E-05
688	ALL	353898.1	3793043	1.26E-05	6.5YrCancerDerived_Inh_FAH16to70	1.26E-05
2412	ALL	353561.5	3793510	1.26E-05	6.5YrCancerDerived_Inh_FAH16to70	1.26E-05
500	ALL	353848.1	3792893	1.26E-05	6.5YrCancerDerived_Inh_FAH16to70	1.26E-05
625	ALL	353873.1	3792993	1.25E-05	6.5YrCancerDerived_Inh_FAH16to70	1.25E-05
2393	ALL	353561.5	3793495	1.25E-05	6.5YrCancerDerived_Inh_FAH16to70	1.25E-05
2167	ALL	353591.5	3793345	1.25E-05	6.5YrCancerDerived_Inh_FAH16to70	1.25E-05
156	ALL	353773.1	3792618	1.25E-05	6.5YrCancerDerived_Inh_FAH16to70	1.25E-05
755	ALL	353973.1	3793093	1.25E-05	6.5YrCancerDerived_Inh_FAH16to70	1.25E-05
721	ALL	353923.1	3793068	1.25E-05	6.5YrCancerDerived_Inh_FAH16to70	1.25E-05
2264	ALL	353576.5	3793405	1.25E-05	6.5YrCancerDerived_Inh_FAH16to70	1.25E-05
2374	ALL	353561.5	3793480	1.24E-05	6.5YrCancerDerived_Inh_FAH16to70	1.24E-05
1770	ALL	353640.5	3793085	1.24E-05	6.5YrCancerDerived_Inh_FAH16to70	1.24E-05
1925	ALL	353615.5	3793235	1.24E-05	6.5YrCancerDerived_Inh_FAH16to70	1.24E-05

940	ALL	354223.1	3793243	1.24E-05	6.5YrCancerDerived_Inh_FAH16to70	1.24E-05
1509	ALL	353665.5	3792860	1.24E-05	6.5YrCancerDerived_Inh_FAH16to70	1.24E-05
923	ALL	354198.1	3793218	1.24E-05	6.5YrCancerDerived_Inh_FAH16to70	1.24E-05
2043	ALL	353606.5	3793270	1.24E-05	6.5YrCancerDerived_Inh_FAH16to70	1.24E-05
960	ALL	354248.1	3793268	1.23E-05	6.5YrCancerDerived_Inh_FAH16to70	1.23E-05
2354	ALL	353561.5	3793465	1.23E-05	6.5YrCancerDerived_Inh_FAH16to70	1.23E-05
980	ALL	354273.1	3793293	1.23E-05	6.5YrCancerDerived_Inh_FAH16to70	1.23E-05
891	ALL	354173.1	3793193	1.23E-05	6.5YrCancerDerived_Inh_FAH16to70	1.23E-05
790	ALL	354048.1	3793118	1.23E-05	6.5YrCancerDerived_Inh_FAH16to70	1.23E-05
188	ALL	353798.1	3792643	1.23E-05	6.5YrCancerDerived_Inh_FAH16to70	1.23E-05
824	ALL	354098.1	3793143	1.22E-05	6.5YrCancerDerived_Inh_FAH16to70	1.22E-05
2142	ALL	353591.5	3793330	1.22E-05	6.5YrCancerDerived_Inh_FAH16to70	1.22E-05
2240	ALL	353576.5	3793390	1.22E-05	6.5YrCancerDerived_Inh_FAH16to70	1.22E-05
469	ALL	353848.1	3792868	1.22E-05	6.5YrCancerDerived_Inh_FAH16to70	1.22E-05
282	ALL	353823.1	3792718	1.22E-05	6.5YrCancerDerived_Inh_FAH16to70	1.22E-05
1036	ALL	354323.1	3793368	1.22E-05	6.5YrCancerDerived_Inh_FAH16to70	1.22E-05
1740	ALL	353640.5	3793060	1.22E-05	6.5YrCancerDerived_Inh_FAH16to70	1.22E-05
756	ALL	353998.1	3793093	1.22E-05	6.5YrCancerDerived_Inh_FAH16to70	1.22E-05
594	ALL	353873.1	3792968	1.21E-05	6.5YrCancerDerived_Inh_FAH16to70	1.21E-05
2332	ALL	353561.5	3793450	1.21E-05	6.5YrCancerDerived_Inh_FAH16to70	1.21E-05
1919	ALL	353615.5	3793210	1.21E-05	6.5YrCancerDerived_Inh_FAH16to70	1.21E-05
1480	ALL	353665.5	3792835	1.21E-05	6.5YrCancerDerived_Inh_FAH16to70	1.21E-05
2117	ALL	353591.5	3793315	1.20E-05	6.5YrCancerDerived_Inh_FAH16to70	1.20E-05
2216	ALL	353576.5	3793375	1.20E-05	6.5YrCancerDerived_Inh_FAH16to70	1.20E-05
657	ALL	353898.1	3793018	1.20E-05	6.5YrCancerDerived_Inh_FAH16to70	1.20E-05
438	ALL	353848.1	3792843	1.20E-05	6.5YrCancerDerived_Inh_FAH16to70	1.20E-05
1000	ALL	354298.1	3793318	1.20E-05	6.5YrCancerDerived_Inh_FAH16to70	1.20E-05
858	ALL	354148.1	3793168	1.20E-05	6.5YrCancerDerived_Inh_FAH16to70	1.20E-05
722	ALL	353948.1	3793068	1.20E-05	6.5YrCancerDerived_Inh_FAH16to70	1.20E-05
2484	ALL	353546.5	3793570	1.19E-05	6.5YrCancerDerived_Inh_FAH16to70	1.19E-05
1711	ALL	353640.5	3793035	1.19E-05	6.5YrCancerDerived_Inh_FAH16to70	1.19E-05
2310	ALL	353561.5	3793435	1.19E-05	6.5YrCancerDerived_Inh_FAH16to70	1.19E-05
2467	ALL	353546.5	3793555	1.19E-05	6.5YrCancerDerived_Inh_FAH16to70	1.19E-05
2449	ALL	353546.5	3793540	1.19E-05	6.5YrCancerDerived_Inh_FAH16to70	1.19E-05
1889	ALL	353615.5	3793185	1.19E-05	6.5YrCancerDerived_Inh_FAH16to70	1.19E-05
2430	ALL	353546.5	3793525	1.19E-05	6.5YrCancerDerived_Inh_FAH16to70	1.19E-05
689	ALL	353923.1	3793043	1.18E-05	6.5YrCancerDerived_Inh_FAH16to70	1.18E-05
2191	ALL	353576.5	3793360	1.18E-05	6.5YrCancerDerived_Inh_FAH16to70	1.18E-05
791	ALL	354073.1	3793118	1.18E-05	6.5YrCancerDerived_Inh_FAH16to70	1.18E-05
757	ALL	354023.1	3793093	1.18E-05	6.5YrCancerDerived_Inh_FAH16to70	1.18E-05
2092	ALL	353591.5	3793300	1.18E-05	6.5YrCancerDerived_Inh_FAH16to70	1.18E-05
2411	ALL	353546.5	3793510	1.18E-05	6.5YrCancerDerived_Inh_FAH16to70	1.18E-05
1068	ALL	354348.1	3793418	1.18E-05	6.5YrCancerDerived_Inh_FAH16to70	1.18E-05
1451	ALL	353665.5	3792810	1.18E-05	6.5YrCancerDerived_Inh_FAH16to70	1.18E-05
563	ALL	353873.1	3792943	1.17E-05	6.5YrCancerDerived_Inh_FAH16to70	1.17E-05
2287	ALL	353561.5	3793420	1.17E-05	6.5YrCancerDerived_Inh_FAH16to70	1.17E-05
825	ALL	354123.1	3793143	1.17E-05	6.5YrCancerDerived_Inh_FAH16to70	1.17E-05

1682	ALL	353640.5	3793010	1.17E-05	6.5YrCancerDerived_Inh_FAH16to70	1.17E-05
2392	ALL	353546.5	3793495	1.17E-05	6.5YrCancerDerived_Inh_FAH16to70	1.17E-05
2166	ALL	353576.5	3793345	1.17E-05	6.5YrCancerDerived_Inh_FAH16to70	1.17E-05
407	ALL	353848.1	3792818	1.16E-05	6.5YrCancerDerived_Inh_FAH16to70	1.16E-05
2067	ALL	353591.5	3793285	1.16E-05	6.5YrCancerDerived_Inh_FAH16to70	1.16E-05
1859	ALL	353615.5	3793160	1.16E-05	6.5YrCancerDerived_Inh_FAH16to70	1.16E-05
1307	ALL	353690.5	3792685	1.16E-05	6.5YrCancerDerived_Inh_FAH16to70	1.16E-05
2373	ALL	353546.5	3793480	1.16E-05	6.5YrCancerDerived_Inh_FAH16to70	1.16E-05
723	ALL	353973.1	3793068	1.16E-05	6.5YrCancerDerived_Inh_FAH16to70	1.16E-05
1020	ALL	354323.1	3793343	1.16E-05	6.5YrCancerDerived_Inh_FAH16to70	1.16E-05
251	ALL	353823.1	3792693	1.15E-05	6.5YrCancerDerived_Inh_FAH16to70	1.15E-05
2263	ALL	353561.5	3793405	1.15E-05	6.5YrCancerDerived_Inh_FAH16to70	1.15E-05
1653	ALL	353640.5	3792985	1.15E-05	6.5YrCancerDerived_Inh_FAH16to70	1.15E-05
2141	ALL	353576.5	3793330	1.15E-05	6.5YrCancerDerived_Inh_FAH16to70	1.15E-05
2042	ALL	353591.5	3793270	1.15E-05	6.5YrCancerDerived_Inh_FAH16to70	1.15E-05
892	ALL	354198.1	3793193	1.15E-05	6.5YrCancerDerived_Inh_FAH16to70	1.15E-05
924	ALL	354223.1	3793218	1.15E-05	6.5YrCancerDerived_Inh_FAH16to70	1.15E-05
626	ALL	353898.1	3792993	1.15E-05	6.5YrCancerDerived_Inh_FAH16to70	1.15E-05
941	ALL	354248.1	3793243	1.15E-05	6.5YrCancerDerived_Inh_FAH16to70	1.15E-05
2353	ALL	353546.5	3793465	1.14E-05	6.5YrCancerDerived_Inh_FAH16to70	1.14E-05
961	ALL	354273.1	3793268	1.14E-05	6.5YrCancerDerived_Inh_FAH16to70	1.14E-05
758	ALL	354048.1	3793093	1.14E-05	6.5YrCancerDerived_Inh_FAH16to70	1.14E-05
1053	ALL	354348.1	3793393	1.14E-05	6.5YrCancerDerived_Inh_FAH16to70	1.14E-05
1422	ALL	353665.5	3792785	1.14E-05	6.5YrCancerDerived_Inh_FAH16to70	1.14E-05
2239	ALL	353561.5	3793390	1.14E-05	6.5YrCancerDerived_Inh_FAH16to70	1.14E-05
1829	ALL	353615.5	3793135	1.13E-05	6.5YrCancerDerived_Inh_FAH16to70	1.13E-05
792	ALL	354098.1	3793118	1.13E-05	6.5YrCancerDerived_Inh_FAH16to70	1.13E-05
859	ALL	354173.1	3793168	1.13E-05	6.5YrCancerDerived_Inh_FAH16to70	1.13E-05
532	ALL	353873.1	3792918	1.13E-05	6.5YrCancerDerived_Inh_FAH16to70	1.13E-05
2331	ALL	353546.5	3793450	1.13E-05	6.5YrCancerDerived_Inh_FAH16to70	1.13E-05
690	ALL	353948.1	3793043	1.13E-05	6.5YrCancerDerived_Inh_FAH16to70	1.13E-05
2116	ALL	353576.5	3793315	1.13E-05	6.5YrCancerDerived_Inh_FAH16to70	1.13E-05
1250	ALL	353715.5	3792635	1.13E-05	6.5YrCancerDerived_Inh_FAH16to70	1.13E-05
1624	ALL	353640.5	3792960	1.13E-05	6.5YrCancerDerived_Inh_FAH16to70	1.13E-05
376	ALL	353848.1	3792793	1.12E-05	6.5YrCancerDerived_Inh_FAH16to70	1.12E-05
724	ALL	353998.1	3793068	1.12E-05	6.5YrCancerDerived_Inh_FAH16to70	1.12E-05
658	ALL	353923.1	3793018	1.12E-05	6.5YrCancerDerived_Inh_FAH16to70	1.12E-05
2483	ALL	353531.5	3793570	1.12E-05	6.5YrCancerDerived_Inh_FAH16to70	1.12E-05
2215	ALL	353561.5	3793375	1.12E-05	6.5YrCancerDerived_Inh_FAH16to70	1.12E-05
981	ALL	354298.1	3793293	1.12E-05	6.5YrCancerDerived_Inh_FAH16to70	1.12E-05
2466	ALL	353531.5	3793555	1.12E-05	6.5YrCancerDerived_Inh_FAH16to70	1.12E-05
2309	ALL	353546.5	3793435	1.12E-05	6.5YrCancerDerived_Inh_FAH16to70	1.12E-05
2448	ALL	353531.5	3793540	1.11E-05	6.5YrCancerDerived_Inh_FAH16to70	1.11E-05
1799	ALL	353615.5	3793110	1.11E-05	6.5YrCancerDerived_Inh_FAH16to70	1.11E-05
2429	ALL	353531.5	3793525	1.11E-05	6.5YrCancerDerived_Inh_FAH16to70	1.11E-05
2091	ALL	353576.5	3793300	1.11E-05	6.5YrCancerDerived_Inh_FAH16to70	1.11E-05
2190	ALL	353561.5	3793360	1.11E-05	6.5YrCancerDerived_Inh_FAH16to70	1.11E-05

2410	ALL	353531.5	3793510	1.11E-05	6.5YrCancerDerived_Inh_FAH16to70	1.11E-05
1595	ALL	353640.5	3792935	1.10E-05	6.5YrCancerDerived_Inh_FAH16to70	1.10E-05
2286	ALL	353546.5	3793420	1.10E-05	6.5YrCancerDerived_Inh_FAH16to70	1.10E-05
595	ALL	353898.1	3792968	1.10E-05	6.5YrCancerDerived_Inh_FAH16to70	1.10E-05
826	ALL	354148.1	3793143	1.10E-05	6.5YrCancerDerived_Inh_FAH16to70	1.10E-05
1037	ALL	354348.1	3793368	1.10E-05	6.5YrCancerDerived_Inh_FAH16to70	1.10E-05
759	ALL	354073.1	3793093	1.10E-05	6.5YrCancerDerived_Inh_FAH16to70	1.10E-05
2391	ALL	353531.5	3793495	1.10E-05	6.5YrCancerDerived_Inh_FAH16to70	1.10E-05
1393	ALL	353665.5	3792760	1.10E-05	6.5YrCancerDerived_Inh_FAH16to70	1.10E-05
2165	ALL	353561.5	3793345	1.10E-05	6.5YrCancerDerived_Inh_FAH16to70	1.10E-05
2066	ALL	353576.5	3793285	1.09E-05	6.5YrCancerDerived_Inh_FAH16to70	1.09E-05
2262	ALL	353546.5	3793405	1.09E-05	6.5YrCancerDerived_Inh_FAH16to70	1.09E-05
1001	ALL	354323.1	3793318	1.09E-05	6.5YrCancerDerived_Inh_FAH16to70	1.09E-05
1769	ALL	353615.5	3793085	1.09E-05	6.5YrCancerDerived_Inh_FAH16to70	1.09E-05
2372	ALL	353531.5	3793480	1.09E-05	6.5YrCancerDerived_Inh_FAH16to70	1.09E-05
501	ALL	353873.1	3792893	1.09E-05	6.5YrCancerDerived_Inh_FAH16to70	1.09E-05
725	ALL	354023.1	3793068	1.09E-05	6.5YrCancerDerived_Inh_FAH16to70	1.09E-05
691	ALL	353973.1	3793043	1.08E-05	6.5YrCancerDerived_Inh_FAH16to70	1.08E-05
793	ALL	354123.1	3793118	1.08E-05	6.5YrCancerDerived_Inh_FAH16to70	1.08E-05
1566	ALL	353640.5	3792910	1.08E-05	6.5YrCancerDerived_Inh_FAH16to70	1.08E-05
1918	ALL	353590.5	3793210	1.08E-05	6.5YrCancerDerived_Inh_FAH16to70	1.08E-05
345	ALL	353848.1	3792768	1.08E-05	6.5YrCancerDerived_Inh_FAH16to70	1.08E-05
2140	ALL	353561.5	3793330	1.08E-05	6.5YrCancerDerived_Inh_FAH16to70	1.08E-05
2352	ALL	353531.5	3793465	1.08E-05	6.5YrCancerDerived_Inh_FAH16to70	1.08E-05
2041	ALL	353576.5	3793270	1.08E-05	6.5YrCancerDerived_Inh_FAH16to70	1.08E-05
2238	ALL	353546.5	3793390	1.08E-05	6.5YrCancerDerived_Inh_FAH16to70	1.08E-05
627	ALL	353923.1	3792993	1.07E-05	6.5YrCancerDerived_Inh_FAH16to70	1.07E-05
893	ALL	354223.1	3793193	1.07E-05	6.5YrCancerDerived_Inh_FAH16to70	1.07E-05
1739	ALL	353615.5	3793060	1.07E-05	6.5YrCancerDerived_Inh_FAH16to70	1.07E-05
659	ALL	353948.1	3793018	1.07E-05	6.5YrCancerDerived_Inh_FAH16to70	1.07E-05
2330	ALL	353531.5	3793450	1.07E-05	6.5YrCancerDerived_Inh_FAH16to70	1.07E-05
925	ALL	354248.1	3793218	1.06E-05	6.5YrCancerDerived_Inh_FAH16to70	1.06E-05
942	ALL	354273.1	3793243	1.06E-05	6.5YrCancerDerived_Inh_FAH16to70	1.06E-05
2115	ALL	353561.5	3793315	1.06E-05	6.5YrCancerDerived_Inh_FAH16to70	1.06E-05
1537	ALL	353640.5	3792885	1.06E-05	6.5YrCancerDerived_Inh_FAH16to70	1.06E-05
1888	ALL	353590.5	3793185	1.06E-05	6.5YrCancerDerived_Inh_FAH16to70	1.06E-05
860	ALL	354198.1	3793168	1.06E-05	6.5YrCancerDerived_Inh_FAH16to70	1.06E-05
564	ALL	353898.1	3792943	1.06E-05	6.5YrCancerDerived_Inh_FAH16to70	1.06E-05
2214	ALL	353546.5	3793375	1.06E-05	6.5YrCancerDerived_Inh_FAH16to70	1.06E-05
220	ALL	353823.1	3792668	1.06E-05	6.5YrCancerDerived_Inh_FAH16to70	1.06E-05
1069	ALL	354373.1	3793418	1.06E-05	6.5YrCancerDerived_Inh_FAH16to70	1.06E-05
470	ALL	353873.1	3792868	1.06E-05	6.5YrCancerDerived_Inh_FAH16to70	1.06E-05
760	ALL	354098.1	3793093	1.05E-05	6.5YrCancerDerived_Inh_FAH16to70	1.05E-05
2308	ALL	353531.5	3793435	1.05E-05	6.5YrCancerDerived_Inh_FAH16to70	1.05E-05
726	ALL	354048.1	3793068	1.05E-05	6.5YrCancerDerived_Inh_FAH16to70	1.05E-05
2482	ALL	353516.5	3793570	1.05E-05	6.5YrCancerDerived_Inh_FAH16to70	1.05E-05
1021	ALL	354348.1	3793343	1.05E-05	6.5YrCancerDerived_Inh_FAH16to70	1.05E-05

2090	ALL	353561.5	3793300	1.05E-05	6.5YrCancerDerived_Inh_FAH16to70	1.05E-05
692	ALL	353998.1	3793043	1.05E-05	6.5YrCancerDerived_Inh_FAH16to70	1.05E-05
2465	ALL	353516.5	3793555	1.05E-05	6.5YrCancerDerived_Inh_FAH16to70	1.05E-05
2189	ALL	353546.5	3793360	1.05E-05	6.5YrCancerDerived_Inh_FAH16to70	1.05E-05
1710	ALL	353615.5	3793035	1.05E-05	6.5YrCancerDerived_Inh_FAH16to70	1.05E-05
962	ALL	354298.1	3793268	1.05E-05	6.5YrCancerDerived_Inh_FAH16to70	1.05E-05
2447	ALL	353516.5	3793540	1.04E-05	6.5YrCancerDerived_Inh_FAH16to70	1.04E-05
827	ALL	354173.1	3793143	1.04E-05	6.5YrCancerDerived_Inh_FAH16to70	1.04E-05
2285	ALL	353531.5	3793420	1.04E-05	6.5YrCancerDerived_Inh_FAH16to70	1.04E-05
1364	ALL	353665.5	3792735	1.04E-05	6.5YrCancerDerived_Inh_FAH16to70	1.04E-05
2428	ALL	353516.5	3793525	1.04E-05	6.5YrCancerDerived_Inh_FAH16to70	1.04E-05
1858	ALL	353590.5	3793160	1.04E-05	6.5YrCancerDerived_Inh_FAH16to70	1.04E-05
2409	ALL	353516.5	3793510	1.04E-05	6.5YrCancerDerived_Inh_FAH16to70	1.04E-05
1508	ALL	353640.5	3792860	1.04E-05	6.5YrCancerDerived_Inh_FAH16to70	1.04E-05
2371	ALL	353516.5	3793480	1.04E-05	6.5YrCancerDerived_Inh_FAH16to70	1.04E-05
2390	ALL	353516.5	3793495	1.03E-05	6.5YrCancerDerived_Inh_FAH16to70	1.03E-05
314	ALL	353848.1	3792743	1.03E-05	6.5YrCancerDerived_Inh_FAH16to70	1.03E-05
439	ALL	353873.1	3792843	1.03E-05	6.5YrCancerDerived_Inh_FAH16to70	1.03E-05
2261	ALL	353531.5	3793405	1.03E-05	6.5YrCancerDerived_Inh_FAH16to70	1.03E-05
2065	ALL	353561.5	3793285	1.03E-05	6.5YrCancerDerived_Inh_FAH16to70	1.03E-05
2351	ALL	353516.5	3793465	1.03E-05	6.5YrCancerDerived_Inh_FAH16to70	1.03E-05
2164	ALL	353546.5	3793345	1.03E-05	6.5YrCancerDerived_Inh_FAH16to70	1.03E-05
1054	ALL	354373.1	3793393	1.03E-05	6.5YrCancerDerived_Inh_FAH16to70	1.03E-05
596	ALL	353923.1	3792968	1.03E-05	6.5YrCancerDerived_Inh_FAH16to70	1.03E-05
982	ALL	354323.1	3793293	1.03E-05	6.5YrCancerDerived_Inh_FAH16to70	1.03E-05
660	ALL	353973.1	3793018	1.02E-05	6.5YrCancerDerived_Inh_FAH16to70	1.02E-05
1681	ALL	353615.5	3793010	1.02E-05	6.5YrCancerDerived_Inh_FAH16to70	1.02E-05
794	ALL	354148.1	3793118	1.02E-05	6.5YrCancerDerived_Inh_FAH16to70	1.02E-05
533	ALL	353898.1	3792918	1.02E-05	6.5YrCancerDerived_Inh_FAH16to70	1.02E-05
2237	ALL	353531.5	3793390	1.02E-05	6.5YrCancerDerived_Inh_FAH16to70	1.02E-05
2040	ALL	353561.5	3793270	1.02E-05	6.5YrCancerDerived_Inh_FAH16to70	1.02E-05
2329	ALL	353516.5	3793450	1.02E-05	6.5YrCancerDerived_Inh_FAH16to70	1.02E-05
2139	ALL	353546.5	3793330	1.02E-05	6.5YrCancerDerived_Inh_FAH16to70	1.02E-05
727	ALL	354073.1	3793068	1.01E-05	6.5YrCancerDerived_Inh_FAH16to70	1.01E-05
1828	ALL	353590.5	3793135	1.01E-05	6.5YrCancerDerived_Inh_FAH16to70	1.01E-05
693	ALL	354023.1	3793043	1.01E-05	6.5YrCancerDerived_Inh_FAH16to70	1.01E-05
628	ALL	353948.1	3792993	1.01E-05	6.5YrCancerDerived_Inh_FAH16to70	1.01E-05
1278	ALL	353690.5	3792660	1.01E-05	6.5YrCancerDerived_Inh_FAH16to70	1.01E-05
1479	ALL	353640.5	3792835	1.01E-05	6.5YrCancerDerived_Inh_FAH16to70	1.01E-05
761	ALL	354123.1	3793093	1.01E-05	6.5YrCancerDerived_Inh_FAH16to70	1.01E-05
2446	ALL	353501.5	3793540	1.01E-05	6.5YrCancerDerived_Inh_FAH16to70	1.01E-05
2427	ALL	353501.5	3793525	1.00E-05	6.5YrCancerDerived_Inh_FAH16to70	1.00E-05
1652	ALL	353615.5	3792985	1.00E-05	6.5YrCancerDerived_Inh_FAH16to70	1.00E-05
2213	ALL	353531.5	3793375	1.00E-05	6.5YrCancerDerived_Inh_FAH16to70	1.00E-05
408	ALL	353873.1	3792818	1.00E-05	6.5YrCancerDerived_Inh_FAH16to70	1.00E-05
2464	ALL	353501.5	3793555	1.00E-05	6.5YrCancerDerived_Inh_FAH16to70	1.00E-05
2307	ALL	353516.5	3793435	1.00E-05	6.5YrCancerDerived_Inh_FAH16to70	1.00E-05

2114	ALL	353546.5	3793315	1.00E-05	6.5YrCancerDerived_Inh_FAH16to70	1.00E-05
2481	ALL	353501.5	3793570	1.00E-05	6.5YrCancerDerived_Inh_FAH16to70	1.00E-05
2408	ALL	353501.5	3793510	1.00E-05	6.5YrCancerDerived_Inh_FAH16to70	1.00E-05
1002	ALL	354348.1	3793318	9.99E-06	6.5YrCancerDerived_Inh_FAH16to70	9.99E-06
1038	ALL	354373.1	3793368	9.96E-06	6.5YrCancerDerived_Inh_FAH16to70	9.96E-06
894	ALL	354248.1	3793193	9.96E-06	6.5YrCancerDerived_Inh_FAH16to70	9.96E-06
2389	ALL	353501.5	3793495	9.96E-06	6.5YrCancerDerived_Inh_FAH16to70	9.96E-06
2370	ALL	353501.5	3793480	9.95E-06	6.5YrCancerDerived_Inh_FAH16to70	9.95E-06
1798	ALL	353590.5	3793110	9.93E-06	6.5YrCancerDerived_Inh_FAH16to70	9.93E-06
861	ALL	354223.1	3793168	9.93E-06	6.5YrCancerDerived_Inh_FAH16to70	9.93E-06
926	ALL	354273.1	3793218	9.90E-06	6.5YrCancerDerived_Inh_FAH16to70	9.90E-06
2284	ALL	353516.5	3793420	9.88E-06	6.5YrCancerDerived_Inh_FAH16to70	9.88E-06
2188	ALL	353531.5	3793360	9.88E-06	6.5YrCancerDerived_Inh_FAH16to70	9.88E-06
661	ALL	353998.1	3793018	9.87E-06	6.5YrCancerDerived_Inh_FAH16to70	9.87E-06
2350	ALL	353501.5	3793465	9.87E-06	6.5YrCancerDerived_Inh_FAH16to70	9.87E-06
2089	ALL	353546.5	3793300	9.85E-06	6.5YrCancerDerived_Inh_FAH16to70	9.85E-06
283	ALL	353848.1	3792718	9.85E-06	6.5YrCancerDerived_Inh_FAH16to70	9.85E-06
828	ALL	354198.1	3793143	9.83E-06	6.5YrCancerDerived_Inh_FAH16to70	9.83E-06
1623	ALL	353615.5	3792960	9.83E-06	6.5YrCancerDerived_Inh_FAH16to70	9.83E-06
565	ALL	353923.1	3792943	9.82E-06	6.5YrCancerDerived_Inh_FAH16to70	9.82E-06
694	ALL	354048.1	3793043	9.81E-06	6.5YrCancerDerived_Inh_FAH16to70	9.81E-06
502	ALL	353898.1	3792893	9.79E-06	6.5YrCancerDerived_Inh_FAH16to70	9.79E-06
943	ALL	354298.1	3793243	9.78E-06	6.5YrCancerDerived_Inh_FAH16to70	9.78E-06
2260	ALL	353516.5	3793405	9.75E-06	6.5YrCancerDerived_Inh_FAH16to70	9.75E-06
1335	ALL	353665.5	3792710	9.75E-06	6.5YrCancerDerived_Inh_FAH16to70	9.75E-06
1450	ALL	353640.5	3792810	9.75E-06	6.5YrCancerDerived_Inh_FAH16to70	9.75E-06
728	ALL	354098.1	3793068	9.74E-06	6.5YrCancerDerived_Inh_FAH16to70	9.74E-06
2426	ALL	353486.5	3793525	9.74E-06	6.5YrCancerDerived_Inh_FAH16to70	9.74E-06
2163	ALL	353531.5	3793345	9.74E-06	6.5YrCancerDerived_Inh_FAH16to70	9.74E-06
2445	ALL	353486.5	3793540	9.73E-06	6.5YrCancerDerived_Inh_FAH16to70	9.73E-06
795	ALL	354173.1	3793118	9.72E-06	6.5YrCancerDerived_Inh_FAH16to70	9.72E-06
1768	ALL	353590.5	3793085	9.72E-06	6.5YrCancerDerived_Inh_FAH16to70	9.72E-06
157	ALL	353798.1	3792618	9.72E-06	6.5YrCancerDerived_Inh_FAH16to70	9.72E-06
2064	ALL	353546.5	3793285	9.70E-06	6.5YrCancerDerived_Inh_FAH16to70	9.70E-06
629	ALL	353973.1	3792993	9.70E-06	6.5YrCancerDerived_Inh_FAH16to70	9.70E-06
2407	ALL	353486.5	3793510	9.70E-06	6.5YrCancerDerived_Inh_FAH16to70	9.70E-06
597	ALL	353948.1	3792968	9.68E-06	6.5YrCancerDerived_Inh_FAH16to70	9.68E-06
2463	ALL	353486.5	3793555	9.67E-06	6.5YrCancerDerived_Inh_FAH16to70	9.67E-06
2328	ALL	353501.5	3793450	9.67E-06	6.5YrCancerDerived_Inh_FAH16to70	9.67E-06
963	ALL	354323.1	3793268	9.66E-06	6.5YrCancerDerived_Inh_FAH16to70	9.66E-06
2388	ALL	353486.5	3793495	9.64E-06	6.5YrCancerDerived_Inh_FAH16to70	9.64E-06
2236	ALL	353516.5	3793390	9.62E-06	6.5YrCancerDerived_Inh_FAH16to70	9.62E-06
1594	ALL	353615.5	3792935	9.61E-06	6.5YrCancerDerived_Inh_FAH16to70	9.61E-06
2480	ALL	353486.5	3793570	9.61E-06	6.5YrCancerDerived_Inh_FAH16to70	9.61E-06
377	ALL	353873.1	3792793	9.61E-06	6.5YrCancerDerived_Inh_FAH16to70	9.61E-06
2138	ALL	353531.5	3793330	9.59E-06	6.5YrCancerDerived_Inh_FAH16to70	9.59E-06
2369	ALL	353486.5	3793480	9.59E-06	6.5YrCancerDerived_Inh_FAH16to70	9.59E-06

2039	ALL	353546.5	3793270	9.58E-06	6.5YrCancerDerived_Inh_FAH16to70	9.58E-06
1917	ALL	353565.5	3793210	9.57E-06	6.5YrCancerDerived_Inh_FAH16to70	9.57E-06
662	ALL	354023.1	3793018	9.55E-06	6.5YrCancerDerived_Inh_FAH16to70	9.55E-06
1022	ALL	354373.1	3793343	9.55E-06	6.5YrCancerDerived_Inh_FAH16to70	9.55E-06
1070	ALL	354398.1	3793418	9.53E-06	6.5YrCancerDerived_Inh_FAH16to70	9.53E-06
2496	ALL	353486.5	3793585	9.53E-06	6.5YrCancerDerived_Inh_FAH16to70	9.53E-06
762	ALL	354148.1	3793093	9.52E-06	6.5YrCancerDerived_Inh_FAH16to70	9.52E-06
1738	ALL	353590.5	3793060	9.50E-06	6.5YrCancerDerived_Inh_FAH16to70	9.50E-06
2306	ALL	353501.5	3793435	9.49E-06	6.5YrCancerDerived_Inh_FAH16to70	9.49E-06
2212	ALL	353516.5	3793375	9.49E-06	6.5YrCancerDerived_Inh_FAH16to70	9.49E-06
471	ALL	353898.1	3792868	9.47E-06	6.5YrCancerDerived_Inh_FAH16to70	9.47E-06
2462	ALL	353471.5	3793555	9.47E-06	6.5YrCancerDerived_Inh_FAH16to70	9.47E-06
983	ALL	354348.1	3793293	9.47E-06	6.5YrCancerDerived_Inh_FAH16to70	9.47E-06
2349	ALL	353486.5	3793465	9.47E-06	6.5YrCancerDerived_Inh_FAH16to70	9.47E-06
2026	ALL	353546.5	3793255	9.46E-06	6.5YrCancerDerived_Inh_FAH16to70	9.46E-06
695	ALL	354073.1	3793043	9.46E-06	6.5YrCancerDerived_Inh_FAH16to70	9.46E-06
2113	ALL	353531.5	3793315	9.45E-06	6.5YrCancerDerived_Inh_FAH16to70	9.45E-06
2444	ALL	353471.5	3793540	9.44E-06	6.5YrCancerDerived_Inh_FAH16to70	9.44E-06
2479	ALL	353471.5	3793570	9.44E-06	6.5YrCancerDerived_Inh_FAH16to70	9.44E-06
2425	ALL	353471.5	3793525	9.42E-06	6.5YrCancerDerived_Inh_FAH16to70	9.42E-06
534	ALL	353923.1	3792918	9.41E-06	6.5YrCancerDerived_Inh_FAH16to70	9.41E-06
2406	ALL	353471.5	3793510	9.41E-06	6.5YrCancerDerived_Inh_FAH16to70	9.41E-06
1421	ALL	353640.5	3792785	9.40E-06	6.5YrCancerDerived_Inh_FAH16to70	9.40E-06
1887	ALL	353565.5	3793185	9.40E-06	6.5YrCancerDerived_Inh_FAH16to70	9.40E-06
1565	ALL	353615.5	3792910	9.40E-06	6.5YrCancerDerived_Inh_FAH16to70	9.40E-06
2387	ALL	353471.5	3793495	9.38E-06	6.5YrCancerDerived_Inh_FAH16to70	9.38E-06
2283	ALL	353501.5	3793420	9.36E-06	6.5YrCancerDerived_Inh_FAH16to70	9.36E-06
2187	ALL	353516.5	3793360	9.35E-06	6.5YrCancerDerived_Inh_FAH16to70	9.35E-06
189	ALL	353823.1	3792643	9.35E-06	6.5YrCancerDerived_Inh_FAH16to70	9.35E-06
2368	ALL	353471.5	3793480	9.34E-06	6.5YrCancerDerived_Inh_FAH16to70	9.34E-06
2495	ALL	353471.5	3793585	9.34E-06	6.5YrCancerDerived_Inh_FAH16to70	9.34E-06
630	ALL	353998.1	3792993	9.34E-06	6.5YrCancerDerived_Inh_FAH16to70	9.34E-06
1857	ALL	353565.5	3793160	9.34E-06	6.5YrCancerDerived_Inh_FAH16to70	9.34E-06
729	ALL	354123.1	3793068	9.32E-06	6.5YrCancerDerived_Inh_FAH16to70	9.32E-06
252	ALL	353848.1	3792693	9.31E-06	6.5YrCancerDerived_Inh_FAH16to70	9.31E-06
2088	ALL	353531.5	3793300	9.30E-06	6.5YrCancerDerived_Inh_FAH16to70	9.30E-06
895	ALL	354273.1	3793193	9.30E-06	6.5YrCancerDerived_Inh_FAH16to70	9.30E-06
862	ALL	354248.1	3793168	9.30E-06	6.5YrCancerDerived_Inh_FAH16to70	9.30E-06
1709	ALL	353590.5	3793035	9.30E-06	6.5YrCancerDerived_Inh_FAH16to70	9.30E-06
2478	ALL	353456.5	3793570	9.29E-06	6.5YrCancerDerived_Inh_FAH16to70	9.29E-06
2461	ALL	353456.5	3793555	9.28E-06	6.5YrCancerDerived_Inh_FAH16to70	9.28E-06
1055	ALL	354398.1	3793393	9.28E-06	6.5YrCancerDerived_Inh_FAH16to70	9.28E-06
346	ALL	353873.1	3792768	9.28E-06	6.5YrCancerDerived_Inh_FAH16to70	9.28E-06
2327	ALL	353486.5	3793450	9.24E-06	6.5YrCancerDerived_Inh_FAH16to70	9.24E-06
566	ALL	353948.1	3792943	9.24E-06	6.5YrCancerDerived_Inh_FAH16to70	9.24E-06
829	ALL	354223.1	3793143	9.24E-06	6.5YrCancerDerived_Inh_FAH16to70	9.24E-06
663	ALL	354048.1	3793018	9.23E-06	6.5YrCancerDerived_Inh_FAH16to70	9.23E-06

2259	ALL	353501.5	3793405	9.23E-06	6.5YrCancerDerived_Inh_FAH16to70	9.23E-06
2494	ALL	353456.5	3793585	9.22E-06	6.5YrCancerDerived_Inh_FAH16to70	9.22E-06
598	ALL	353973.1	3792968	9.22E-06	6.5YrCancerDerived_Inh_FAH16to70	9.22E-06
2162	ALL	353516.5	3793345	9.22E-06	6.5YrCancerDerived_Inh_FAH16to70	9.22E-06
440	ALL	353898.1	3792843	9.22E-06	6.5YrCancerDerived_Inh_FAH16to70	9.22E-06
2348	ALL	353471.5	3793465	9.22E-06	6.5YrCancerDerived_Inh_FAH16to70	9.22E-06
2443	ALL	353456.5	3793540	9.22E-06	6.5YrCancerDerived_Inh_FAH16to70	9.22E-06
796	ALL	354198.1	3793118	9.18E-06	6.5YrCancerDerived_Inh_FAH16to70	9.18E-06
2424	ALL	353456.5	3793525	9.17E-06	6.5YrCancerDerived_Inh_FAH16to70	9.17E-06
2477	ALL	353441.5	3793570	9.17E-06	6.5YrCancerDerived_Inh_FAH16to70	9.17E-06
2493	ALL	353441.5	3793585	9.17E-06	6.5YrCancerDerived_Inh_FAH16to70	9.17E-06
1536	ALL	353615.5	3792885	9.17E-06	6.5YrCancerDerived_Inh_FAH16to70	9.17E-06
927	ALL	354298.1	3793218	9.16E-06	6.5YrCancerDerived_Inh_FAH16to70	9.16E-06
2063	ALL	353531.5	3793285	9.16E-06	6.5YrCancerDerived_Inh_FAH16to70	9.16E-06
2405	ALL	353456.5	3793510	9.16E-06	6.5YrCancerDerived_Inh_FAH16to70	9.16E-06
2460	ALL	353441.5	3793555	9.14E-06	6.5YrCancerDerived_Inh_FAH16to70	9.14E-06
1827	ALL	353565.5	3793135	9.13E-06	6.5YrCancerDerived_Inh_FAH16to70	9.13E-06
1003	ALL	354373.1	3793318	9.12E-06	6.5YrCancerDerived_Inh_FAH16to70	9.12E-06
2235	ALL	353501.5	3793390	9.11E-06	6.5YrCancerDerived_Inh_FAH16to70	9.11E-06
2386	ALL	353456.5	3793495	9.11E-06	6.5YrCancerDerived_Inh_FAH16to70	9.11E-06
763	ALL	354173.1	3793093	9.11E-06	6.5YrCancerDerived_Inh_FAH16to70	9.11E-06
944	ALL	354323.1	3793243	9.10E-06	6.5YrCancerDerived_Inh_FAH16to70	9.10E-06
1680	ALL	353590.5	3793010	9.10E-06	6.5YrCancerDerived_Inh_FAH16to70	9.10E-06
2137	ALL	353516.5	3793330	9.10E-06	6.5YrCancerDerived_Inh_FAH16to70	9.10E-06
696	ALL	354098.1	3793043	9.10E-06	6.5YrCancerDerived_Inh_FAH16to70	9.10E-06
2442	ALL	353441.5	3793540	9.06E-06	6.5YrCancerDerived_Inh_FAH16to70	9.06E-06
2367	ALL	353456.5	3793480	9.05E-06	6.5YrCancerDerived_Inh_FAH16to70	9.05E-06
2038	ALL	353531.5	3793270	9.05E-06	6.5YrCancerDerived_Inh_FAH16to70	9.05E-06
1039	ALL	354398.1	3793368	9.03E-06	6.5YrCancerDerived_Inh_FAH16to70	9.03E-06
2305	ALL	353486.5	3793435	9.03E-06	6.5YrCancerDerived_Inh_FAH16to70	9.03E-06
503	ALL	353923.1	3792893	9.02E-06	6.5YrCancerDerived_Inh_FAH16to70	9.02E-06
631	ALL	354023.1	3792993	9.01E-06	6.5YrCancerDerived_Inh_FAH16to70	9.01E-06
1392	ALL	353640.5	3792760	9.00E-06	6.5YrCancerDerived_Inh_FAH16to70	9.00E-06
2423	ALL	353441.5	3793525	8.99E-06	6.5YrCancerDerived_Inh_FAH16to70	8.99E-06
2211	ALL	353501.5	3793375	8.99E-06	6.5YrCancerDerived_Inh_FAH16to70	8.99E-06
2326	ALL	353471.5	3793450	8.98E-06	6.5YrCancerDerived_Inh_FAH16to70	8.98E-06
2112	ALL	353516.5	3793315	8.97E-06	6.5YrCancerDerived_Inh_FAH16to70	8.97E-06
964	ALL	354348.1	3793268	8.97E-06	6.5YrCancerDerived_Inh_FAH16to70	8.97E-06
2404	ALL	353441.5	3793510	8.95E-06	6.5YrCancerDerived_Inh_FAH16to70	8.95E-06
2025	ALL	353531.5	3793255	8.95E-06	6.5YrCancerDerived_Inh_FAH16to70	8.95E-06
1797	ALL	353565.5	3793110	8.95E-06	6.5YrCancerDerived_Inh_FAH16to70	8.95E-06
409	ALL	353898.1	3792818	8.93E-06	6.5YrCancerDerived_Inh_FAH16to70	8.93E-06
1507	ALL	353615.5	3792860	8.92E-06	6.5YrCancerDerived_Inh_FAH16to70	8.92E-06
2347	ALL	353456.5	3793465	8.92E-06	6.5YrCancerDerived_Inh_FAH16to70	8.92E-06
664	ALL	354073.1	3793018	8.91E-06	6.5YrCancerDerived_Inh_FAH16to70	8.91E-06
1651	ALL	353590.5	3792985	8.91E-06	6.5YrCancerDerived_Inh_FAH16to70	8.91E-06
1306	ALL	353665.5	3792685	8.91E-06	6.5YrCancerDerived_Inh_FAH16to70	8.91E-06

730	ALL	354148.1	3793068	8.90E-06	6.5YrCancerDerived_Inh_FAH16to70	8.90E-06
2492	ALL	353426.5	3793585	8.89E-06	6.5YrCancerDerived_Inh_FAH16to70	8.89E-06
2282	ALL	353486.5	3793420	8.89E-06	6.5YrCancerDerived_Inh_FAH16to70	8.89E-06
2476	ALL	353426.5	3793570	8.88E-06	6.5YrCancerDerived_Inh_FAH16to70	8.88E-06
2385	ALL	353441.5	3793495	8.87E-06	6.5YrCancerDerived_Inh_FAH16to70	8.87E-06
2186	ALL	353501.5	3793360	8.87E-06	6.5YrCancerDerived_Inh_FAH16to70	8.87E-06
1916	ALL	353540.5	3793210	8.85E-06	6.5YrCancerDerived_Inh_FAH16to70	8.85E-06
599	ALL	353998.1	3792968	8.84E-06	6.5YrCancerDerived_Inh_FAH16to70	8.84E-06
535	ALL	353948.1	3792918	8.83E-06	6.5YrCancerDerived_Inh_FAH16to70	8.83E-06
2459	ALL	353426.5	3793555	8.83E-06	6.5YrCancerDerived_Inh_FAH16to70	8.83E-06
2087	ALL	353516.5	3793300	8.83E-06	6.5YrCancerDerived_Inh_FAH16to70	8.83E-06
315	ALL	353873.1	3792743	8.83E-06	6.5YrCancerDerived_Inh_FAH16to70	8.83E-06
567	ALL	353973.1	3792943	8.78E-06	6.5YrCancerDerived_Inh_FAH16to70	8.78E-06
2441	ALL	353426.5	3793540	8.78E-06	6.5YrCancerDerived_Inh_FAH16to70	8.78E-06
2366	ALL	353441.5	3793480	8.76E-06	6.5YrCancerDerived_Inh_FAH16to70	8.76E-06
2258	ALL	353486.5	3793405	8.76E-06	6.5YrCancerDerived_Inh_FAH16to70	8.76E-06
1767	ALL	353565.5	3793085	8.75E-06	6.5YrCancerDerived_Inh_FAH16to70	8.75E-06
2304	ALL	353471.5	3793435	8.75E-06	6.5YrCancerDerived_Inh_FAH16to70	8.75E-06
2161	ALL	353501.5	3793345	8.74E-06	6.5YrCancerDerived_Inh_FAH16to70	8.74E-06
697	ALL	354123.1	3793043	8.72E-06	6.5YrCancerDerived_Inh_FAH16to70	8.72E-06
632	ALL	354048.1	3792993	8.72E-06	6.5YrCancerDerived_Inh_FAH16to70	8.72E-06
863	ALL	354273.1	3793168	8.71E-06	6.5YrCancerDerived_Inh_FAH16to70	8.71E-06
1622	ALL	353590.5	3792960	8.71E-06	6.5YrCancerDerived_Inh_FAH16to70	8.71E-06
472	ALL	353923.1	3792868	8.71E-06	6.5YrCancerDerived_Inh_FAH16to70	8.71E-06
2422	ALL	353426.5	3793525	8.70E-06	6.5YrCancerDerived_Inh_FAH16to70	8.70E-06
125	ALL	353773.1	3792593	8.70E-06	6.5YrCancerDerived_Inh_FAH16to70	8.70E-06
984	ALL	354373.1	3793293	8.70E-06	6.5YrCancerDerived_Inh_FAH16to70	8.70E-06
797	ALL	354223.1	3793118	8.69E-06	6.5YrCancerDerived_Inh_FAH16to70	8.69E-06
1023	ALL	354398.1	3793343	8.69E-06	6.5YrCancerDerived_Inh_FAH16to70	8.69E-06
2062	ALL	353516.5	3793285	8.69E-06	6.5YrCancerDerived_Inh_FAH16to70	8.69E-06
830	ALL	354248.1	3793143	8.68E-06	6.5YrCancerDerived_Inh_FAH16to70	8.68E-06
2325	ALL	353456.5	3793450	8.67E-06	6.5YrCancerDerived_Inh_FAH16to70	8.67E-06
1071	ALL	354423.1	3793418	8.65E-06	6.5YrCancerDerived_Inh_FAH16to70	8.65E-06
2234	ALL	353486.5	3793390	8.65E-06	6.5YrCancerDerived_Inh_FAH16to70	8.65E-06
1478	ALL	353615.5	3792835	8.64E-06	6.5YrCancerDerived_Inh_FAH16to70	8.64E-06
2136	ALL	353501.5	3793330	8.63E-06	6.5YrCancerDerived_Inh_FAH16to70	8.63E-06
1221	ALL	353715.5	3792610	8.63E-06	6.5YrCancerDerived_Inh_FAH16to70	8.63E-06
221	ALL	353848.1	3792668	8.62E-06	6.5YrCancerDerived_Inh_FAH16to70	8.62E-06
2403	ALL	353426.5	3793510	8.62E-06	6.5YrCancerDerived_Inh_FAH16to70	8.62E-06
764	ALL	354198.1	3793093	8.62E-06	6.5YrCancerDerived_Inh_FAH16to70	8.62E-06
1886	ALL	353540.5	3793185	8.61E-06	6.5YrCancerDerived_Inh_FAH16to70	8.61E-06
896	ALL	354298.1	3793193	8.61E-06	6.5YrCancerDerived_Inh_FAH16to70	8.61E-06
2037	ALL	353516.5	3793270	8.58E-06	6.5YrCancerDerived_Inh_FAH16to70	8.58E-06
665	ALL	354098.1	3793018	8.58E-06	6.5YrCancerDerived_Inh_FAH16to70	8.58E-06
2475	ALL	353411.5	3793570	8.58E-06	6.5YrCancerDerived_Inh_FAH16to70	8.58E-06
2491	ALL	353411.5	3793585	8.57E-06	6.5YrCancerDerived_Inh_FAH16to70	8.57E-06
2346	ALL	353441.5	3793465	8.57E-06	6.5YrCancerDerived_Inh_FAH16to70	8.57E-06

928	ALL	354323.1	3793218	8.57E-06	6.5YrCancerDerived_Inh_FAH16to70	8.57E-06
1737	ALL	353565.5	3793060	8.55E-06	6.5YrCancerDerived_Inh_FAH16to70	8.55E-06
2210	ALL	353486.5	3793375	8.53E-06	6.5YrCancerDerived_Inh_FAH16to70	8.53E-06
2384	ALL	353426.5	3793495	8.53E-06	6.5YrCancerDerived_Inh_FAH16to70	8.53E-06
1363	ALL	353640.5	3792735	8.52E-06	6.5YrCancerDerived_Inh_FAH16to70	8.52E-06
378	ALL	353898.1	3792793	8.52E-06	6.5YrCancerDerived_Inh_FAH16to70	8.52E-06
2458	ALL	353411.5	3793555	8.52E-06	6.5YrCancerDerived_Inh_FAH16to70	8.52E-06
2111	ALL	353501.5	3793315	8.52E-06	6.5YrCancerDerived_Inh_FAH16to70	8.52E-06
2281	ALL	353471.5	3793420	8.52E-06	6.5YrCancerDerived_Inh_FAH16to70	8.52E-06
1593	ALL	353590.5	3792935	8.51E-06	6.5YrCancerDerived_Inh_FAH16to70	8.51E-06
600	ALL	354023.1	3792968	8.50E-06	6.5YrCancerDerived_Inh_FAH16to70	8.50E-06
2024	ALL	353516.5	3793255	8.48E-06	6.5YrCancerDerived_Inh_FAH16to70	8.48E-06
945	ALL	354348.1	3793243	8.48E-06	6.5YrCancerDerived_Inh_FAH16to70	8.48E-06
1249	ALL	353690.5	3792635	8.48E-06	6.5YrCancerDerived_Inh_FAH16to70	8.48E-06
731	ALL	354173.1	3793068	8.47E-06	6.5YrCancerDerived_Inh_FAH16to70	8.47E-06
504	ALL	353948.1	3792893	8.46E-06	6.5YrCancerDerived_Inh_FAH16to70	8.46E-06
1056	ALL	354423.1	3793393	8.44E-06	6.5YrCancerDerived_Inh_FAH16to70	8.44E-06
441	ALL	353923.1	3792843	8.43E-06	6.5YrCancerDerived_Inh_FAH16to70	8.43E-06
633	ALL	354073.1	3792993	8.42E-06	6.5YrCancerDerived_Inh_FAH16to70	8.42E-06
2303	ALL	353456.5	3793435	8.42E-06	6.5YrCancerDerived_Inh_FAH16to70	8.42E-06
2185	ALL	353486.5	3793360	8.42E-06	6.5YrCancerDerived_Inh_FAH16to70	8.42E-06
2440	ALL	353411.5	3793540	8.42E-06	6.5YrCancerDerived_Inh_FAH16to70	8.42E-06
284	ALL	353873.1	3792718	8.41E-06	6.5YrCancerDerived_Inh_FAH16to70	8.41E-06
568	ALL	353998.1	3792943	8.40E-06	6.5YrCancerDerived_Inh_FAH16to70	8.40E-06
2365	ALL	353426.5	3793480	8.40E-06	6.5YrCancerDerived_Inh_FAH16to70	8.40E-06
2086	ALL	353501.5	3793300	8.39E-06	6.5YrCancerDerived_Inh_FAH16to70	8.39E-06
536	ALL	353973.1	3792918	8.39E-06	6.5YrCancerDerived_Inh_FAH16to70	8.39E-06
1004	ALL	354398.1	3793318	8.35E-06	6.5YrCancerDerived_Inh_FAH16to70	8.35E-06
1708	ALL	353565.5	3793035	8.35E-06	6.5YrCancerDerived_Inh_FAH16to70	8.35E-06
698	ALL	354148.1	3793043	8.35E-06	6.5YrCancerDerived_Inh_FAH16to70	8.35E-06
1449	ALL	353615.5	3792810	8.34E-06	6.5YrCancerDerived_Inh_FAH16to70	8.34E-06
2257	ALL	353471.5	3793405	8.34E-06	6.5YrCancerDerived_Inh_FAH16to70	8.34E-06
1856	ALL	353540.5	3793160	8.33E-06	6.5YrCancerDerived_Inh_FAH16to70	8.33E-06
2421	ALL	353411.5	3793525	8.32E-06	6.5YrCancerDerived_Inh_FAH16to70	8.32E-06
2324	ALL	353441.5	3793450	8.32E-06	6.5YrCancerDerived_Inh_FAH16to70	8.32E-06
2490	ALL	353396.5	3793585	8.31E-06	6.5YrCancerDerived_Inh_FAH16to70	8.31E-06
1564	ALL	353590.5	3792910	8.31E-06	6.5YrCancerDerived_Inh_FAH16to70	8.31E-06
2160	ALL	353486.5	3793345	8.30E-06	6.5YrCancerDerived_Inh_FAH16to70	8.30E-06
965	ALL	354373.1	3793268	8.28E-06	6.5YrCancerDerived_Inh_FAH16to70	8.28E-06
2474	ALL	353396.5	3793570	8.28E-06	6.5YrCancerDerived_Inh_FAH16to70	8.28E-06
2061	ALL	353501.5	3793285	8.26E-06	6.5YrCancerDerived_Inh_FAH16to70	8.26E-06
347	ALL	353898.1	3792768	8.25E-06	6.5YrCancerDerived_Inh_FAH16to70	8.25E-06
1040	ALL	354423.1	3793368	8.24E-06	6.5YrCancerDerived_Inh_FAH16to70	8.24E-06
2345	ALL	353426.5	3793465	8.24E-06	6.5YrCancerDerived_Inh_FAH16to70	8.24E-06
666	ALL	354123.1	3793018	8.23E-06	6.5YrCancerDerived_Inh_FAH16to70	8.23E-06
2233	ALL	353471.5	3793390	8.23E-06	6.5YrCancerDerived_Inh_FAH16to70	8.23E-06
2402	ALL	353411.5	3793510	8.22E-06	6.5YrCancerDerived_Inh_FAH16to70	8.22E-06

765	ALL	354223.1	3793093	8.22E-06	6.5YrCancerDerived_Inh_FAH16to70	8.22E-06
2135	ALL	353486.5	3793330	8.20E-06	6.5YrCancerDerived_Inh_FAH16to70	8.20E-06
2280	ALL	353456.5	3793420	8.20E-06	6.5YrCancerDerived_Inh_FAH16to70	8.20E-06
2457	ALL	353396.5	3793555	8.20E-06	6.5YrCancerDerived_Inh_FAH16to70	8.20E-06
601	ALL	354048.1	3792968	8.18E-06	6.5YrCancerDerived_Inh_FAH16to70	8.18E-06
1679	ALL	353565.5	3793010	8.18E-06	6.5YrCancerDerived_Inh_FAH16to70	8.18E-06
798	ALL	354248.1	3793118	8.17E-06	6.5YrCancerDerived_Inh_FAH16to70	8.17E-06
1826	ALL	353540.5	3793135	8.16E-06	6.5YrCancerDerived_Inh_FAH16to70	8.16E-06
2036	ALL	353501.5	3793270	8.16E-06	6.5YrCancerDerived_Inh_FAH16to70	8.16E-06
831	ALL	354273.1	3793143	8.15E-06	6.5YrCancerDerived_Inh_FAH16to70	8.15E-06
1915	ALL	353515.5	3793210	8.14E-06	6.5YrCancerDerived_Inh_FAH16to70	8.14E-06
410	ALL	353923.1	3792818	8.14E-06	6.5YrCancerDerived_Inh_FAH16to70	8.14E-06
473	ALL	353948.1	3792868	8.14E-06	6.5YrCancerDerived_Inh_FAH16to70	8.14E-06
2383	ALL	353411.5	3793495	8.12E-06	6.5YrCancerDerived_Inh_FAH16to70	8.12E-06
2209	ALL	353471.5	3793375	8.12E-06	6.5YrCancerDerived_Inh_FAH16to70	8.12E-06
634	ALL	354098.1	3792993	8.11E-06	6.5YrCancerDerived_Inh_FAH16to70	8.11E-06
864	ALL	354298.1	3793168	8.10E-06	6.5YrCancerDerived_Inh_FAH16to70	8.10E-06
2110	ALL	353486.5	3793315	8.10E-06	6.5YrCancerDerived_Inh_FAH16to70	8.10E-06
1796	ALL	353540.5	3793110	8.10E-06	6.5YrCancerDerived_Inh_FAH16to70	8.10E-06
1535	ALL	353590.5	3792885	8.09E-06	6.5YrCancerDerived_Inh_FAH16to70	8.09E-06
2302	ALL	353441.5	3793435	8.08E-06	6.5YrCancerDerived_Inh_FAH16to70	8.08E-06
897	ALL	354323.1	3793193	8.08E-06	6.5YrCancerDerived_Inh_FAH16to70	8.08E-06
2439	ALL	353396.5	3793540	8.07E-06	6.5YrCancerDerived_Inh_FAH16to70	8.07E-06
569	ALL	354023.1	3792943	8.07E-06	6.5YrCancerDerived_Inh_FAH16to70	8.07E-06
2023	ALL	353501.5	3793255	8.06E-06	6.5YrCancerDerived_Inh_FAH16to70	8.06E-06
2489	ALL	353381.5	3793585	8.05E-06	6.5YrCancerDerived_Inh_FAH16to70	8.05E-06
2364	ALL	353411.5	3793480	8.04E-06	6.5YrCancerDerived_Inh_FAH16to70	8.04E-06
929	ALL	354348.1	3793218	8.04E-06	6.5YrCancerDerived_Inh_FAH16to70	8.04E-06
732	ALL	354198.1	3793068	8.03E-06	6.5YrCancerDerived_Inh_FAH16to70	8.03E-06
158	ALL	353823.1	3792618	8.03E-06	6.5YrCancerDerived_Inh_FAH16to70	8.03E-06
505	ALL	353973.1	3792893	8.02E-06	6.5YrCancerDerived_Inh_FAH16to70	8.02E-06
1420	ALL	353615.5	3792785	8.02E-06	6.5YrCancerDerived_Inh_FAH16to70	8.02E-06
537	ALL	353998.1	3792918	8.02E-06	6.5YrCancerDerived_Inh_FAH16to70	8.02E-06
985	ALL	354398.1	3793293	8.01E-06	6.5YrCancerDerived_Inh_FAH16to70	8.01E-06
2184	ALL	353471.5	3793360	8.01E-06	6.5YrCancerDerived_Inh_FAH16to70	8.01E-06
1650	ALL	353565.5	3792985	7.99E-06	6.5YrCancerDerived_Inh_FAH16to70	7.99E-06
1024	ALL	354423.1	3793343	7.99E-06	6.5YrCancerDerived_Inh_FAH16to70	7.99E-06
2085	ALL	353486.5	3793300	7.98E-06	6.5YrCancerDerived_Inh_FAH16to70	7.98E-06
2256	ALL	353456.5	3793405	7.98E-06	6.5YrCancerDerived_Inh_FAH16to70	7.98E-06
253	ALL	353873.1	3792693	7.97E-06	6.5YrCancerDerived_Inh_FAH16to70	7.97E-06
1766	ALL	353540.5	3793085	7.97E-06	6.5YrCancerDerived_Inh_FAH16to70	7.97E-06
2323	ALL	353426.5	3793450	7.97E-06	6.5YrCancerDerived_Inh_FAH16to70	7.97E-06
1334	ALL	353640.5	3792710	7.96E-06	6.5YrCancerDerived_Inh_FAH16to70	7.96E-06
2420	ALL	353396.5	3793525	7.96E-06	6.5YrCancerDerived_Inh_FAH16to70	7.96E-06
699	ALL	354173.1	3793043	7.94E-06	6.5YrCancerDerived_Inh_FAH16to70	7.94E-06
1885	ALL	353515.5	3793185	7.94E-06	6.5YrCancerDerived_Inh_FAH16to70	7.94E-06
1277	ALL	353665.5	3792660	7.94E-06	6.5YrCancerDerived_Inh_FAH16to70	7.94E-06

2473	ALL	353381.5	3793570	7.93E-06	6.5YrCancerDerived_Inh_FAH16to70	7.93E-06
2159	ALL	353471.5	3793345	7.90E-06	6.5YrCancerDerived_Inh_FAH16to70	7.90E-06
2279	ALL	353441.5	3793420	7.89E-06	6.5YrCancerDerived_Inh_FAH16to70	7.89E-06
946	ALL	354373.1	3793243	7.89E-06	6.5YrCancerDerived_Inh_FAH16to70	7.89E-06
2344	ALL	353411.5	3793465	7.89E-06	6.5YrCancerDerived_Inh_FAH16to70	7.89E-06
602	ALL	354073.1	3792968	7.88E-06	6.5YrCancerDerived_Inh_FAH16to70	7.88E-06
2060	ALL	353486.5	3793285	7.87E-06	6.5YrCancerDerived_Inh_FAH16to70	7.87E-06
667	ALL	354148.1	3793018	7.86E-06	6.5YrCancerDerived_Inh_FAH16to70	7.86E-06
2401	ALL	353396.5	3793510	7.85E-06	6.5YrCancerDerived_Inh_FAH16to70	7.85E-06
2232	ALL	353456.5	3793390	7.85E-06	6.5YrCancerDerived_Inh_FAH16to70	7.85E-06
1506	ALL	353590.5	3792860	7.85E-06	6.5YrCancerDerived_Inh_FAH16to70	7.85E-06
2456	ALL	353381.5	3793555	7.83E-06	6.5YrCancerDerived_Inh_FAH16to70	7.83E-06
316	ALL	353898.1	3792743	7.83E-06	6.5YrCancerDerived_Inh_FAH16to70	7.83E-06
442	ALL	353948.1	3792843	7.83E-06	6.5YrCancerDerived_Inh_FAH16to70	7.83E-06
190	ALL	353848.1	3792643	7.81E-06	6.5YrCancerDerived_Inh_FAH16to70	7.81E-06
2134	ALL	353471.5	3793330	7.80E-06	6.5YrCancerDerived_Inh_FAH16to70	7.80E-06
1621	ALL	353565.5	3792960	7.80E-06	6.5YrCancerDerived_Inh_FAH16to70	7.80E-06
1736	ALL	353540.5	3793060	7.80E-06	6.5YrCancerDerived_Inh_FAH16to70	7.80E-06
635	ALL	354123.1	3792993	7.79E-06	6.5YrCancerDerived_Inh_FAH16to70	7.79E-06
1072	ALL	354448.1	3793418	7.78E-06	6.5YrCancerDerived_Inh_FAH16to70	7.78E-06
379	ALL	353923.1	3792793	7.77E-06	6.5YrCancerDerived_Inh_FAH16to70	7.77E-06
2035	ALL	353486.5	3793270	7.77E-06	6.5YrCancerDerived_Inh_FAH16to70	7.77E-06
570	ALL	354048.1	3792943	7.77E-06	6.5YrCancerDerived_Inh_FAH16to70	7.77E-06
2382	ALL	353396.5	3793495	7.76E-06	6.5YrCancerDerived_Inh_FAH16to70	7.76E-06
766	ALL	354248.1	3793093	7.76E-06	6.5YrCancerDerived_Inh_FAH16to70	7.76E-06
1855	ALL	353515.5	3793160	7.74E-06	6.5YrCancerDerived_Inh_FAH16to70	7.74E-06
2208	ALL	353456.5	3793375	7.73E-06	6.5YrCancerDerived_Inh_FAH16to70	7.73E-06
2301	ALL	353426.5	3793435	7.73E-06	6.5YrCancerDerived_Inh_FAH16to70	7.73E-06
2438	ALL	353381.5	3793540	7.72E-06	6.5YrCancerDerived_Inh_FAH16to70	7.72E-06
1005	ALL	354423.1	3793318	7.72E-06	6.5YrCancerDerived_Inh_FAH16to70	7.72E-06
126	ALL	353798.1	3792593	7.72E-06	6.5YrCancerDerived_Inh_FAH16to70	7.72E-06
2109	ALL	353471.5	3793315	7.71E-06	6.5YrCancerDerived_Inh_FAH16to70	7.71E-06
2255	ALL	353441.5	3793405	7.70E-06	6.5YrCancerDerived_Inh_FAH16to70	7.70E-06
474	ALL	353973.1	3792868	7.69E-06	6.5YrCancerDerived_Inh_FAH16to70	7.69E-06
538	ALL	354023.1	3792918	7.69E-06	6.5YrCancerDerived_Inh_FAH16to70	7.69E-06
2363	ALL	353396.5	3793480	7.69E-06	6.5YrCancerDerived_Inh_FAH16to70	7.69E-06
799	ALL	354273.1	3793118	7.68E-06	6.5YrCancerDerived_Inh_FAH16to70	7.68E-06
2488	ALL	353366.5	3793585	7.67E-06	6.5YrCancerDerived_Inh_FAH16to70	7.67E-06
2022	ALL	353486.5	3793255	7.67E-06	6.5YrCancerDerived_Inh_FAH16to70	7.67E-06
966	ALL	354398.1	3793268	7.66E-06	6.5YrCancerDerived_Inh_FAH16to70	7.66E-06
506	ALL	353998.1	3792893	7.66E-06	6.5YrCancerDerived_Inh_FAH16to70	7.66E-06
1057	ALL	354448.1	3793393	7.66E-06	6.5YrCancerDerived_Inh_FAH16to70	7.66E-06
1391	ALL	353615.5	3792760	7.66E-06	6.5YrCancerDerived_Inh_FAH16to70	7.66E-06
865	ALL	354323.1	3793168	7.64E-06	6.5YrCancerDerived_Inh_FAH16to70	7.64E-06
733	ALL	354223.1	3793068	7.63E-06	6.5YrCancerDerived_Inh_FAH16to70	7.63E-06
832	ALL	354298.1	3793143	7.63E-06	6.5YrCancerDerived_Inh_FAH16to70	7.63E-06
2183	ALL	353456.5	3793360	7.63E-06	6.5YrCancerDerived_Inh_FAH16to70	7.63E-06

2322	ALL	353411.5	3793450	7.63E-06	6.5YrCancerDerived_Inh_FAH16to70	7.63E-06
1707	ALL	353540.5	3793035	7.62E-06	6.5YrCancerDerived_Inh_FAH16to70	7.62E-06
1592	ALL	353565.5	3792935	7.62E-06	6.5YrCancerDerived_Inh_FAH16to70	7.62E-06
2419	ALL	353381.5	3793525	7.61E-06	6.5YrCancerDerived_Inh_FAH16to70	7.61E-06
2084	ALL	353471.5	3793300	7.61E-06	6.5YrCancerDerived_Inh_FAH16to70	7.61E-06
898	ALL	354348.1	3793193	7.60E-06	6.5YrCancerDerived_Inh_FAH16to70	7.60E-06
603	ALL	354098.1	3792968	7.59E-06	6.5YrCancerDerived_Inh_FAH16to70	7.59E-06
1477	ALL	353590.5	3792835	7.58E-06	6.5YrCancerDerived_Inh_FAH16to70	7.58E-06
2278	ALL	353426.5	3793420	7.56E-06	6.5YrCancerDerived_Inh_FAH16to70	7.56E-06
700	ALL	354198.1	3793043	7.56E-06	6.5YrCancerDerived_Inh_FAH16to70	7.56E-06
1825	ALL	353515.5	3793135	7.55E-06	6.5YrCancerDerived_Inh_FAH16to70	7.55E-06
2343	ALL	353396.5	3793465	7.55E-06	6.5YrCancerDerived_Inh_FAH16to70	7.55E-06
411	ALL	353948.1	3792818	7.54E-06	6.5YrCancerDerived_Inh_FAH16to70	7.54E-06
1041	ALL	354448.1	3793368	7.53E-06	6.5YrCancerDerived_Inh_FAH16to70	7.53E-06
2158	ALL	353456.5	3793345	7.53E-06	6.5YrCancerDerived_Inh_FAH16to70	7.53E-06
668	ALL	354173.1	3793018	7.53E-06	6.5YrCancerDerived_Inh_FAH16to70	7.53E-06
2472	ALL	353366.5	3793570	7.52E-06	6.5YrCancerDerived_Inh_FAH16to70	7.52E-06
2231	ALL	353441.5	3793390	7.52E-06	6.5YrCancerDerived_Inh_FAH16to70	7.52E-06
2400	ALL	353381.5	3793510	7.52E-06	6.5YrCancerDerived_Inh_FAH16to70	7.52E-06
348	ALL	353923.1	3792768	7.51E-06	6.5YrCancerDerived_Inh_FAH16to70	7.51E-06
2059	ALL	353471.5	3793285	7.51E-06	6.5YrCancerDerived_Inh_FAH16to70	7.51E-06
930	ALL	354373.1	3793218	7.51E-06	6.5YrCancerDerived_Inh_FAH16to70	7.51E-06
1914	ALL	353490.5	3793210	7.49E-06	6.5YrCancerDerived_Inh_FAH16to70	7.49E-06
571	ALL	354073.1	3792943	7.49E-06	6.5YrCancerDerived_Inh_FAH16to70	7.49E-06
285	ALL	353898.1	3792718	7.46E-06	6.5YrCancerDerived_Inh_FAH16to70	7.46E-06
1678	ALL	353540.5	3793010	7.45E-06	6.5YrCancerDerived_Inh_FAH16to70	7.45E-06
222	ALL	353873.1	3792668	7.45E-06	6.5YrCancerDerived_Inh_FAH16to70	7.45E-06
986	ALL	354423.1	3793293	7.44E-06	6.5YrCancerDerived_Inh_FAH16to70	7.44E-06
2455	ALL	353366.5	3793555	7.44E-06	6.5YrCancerDerived_Inh_FAH16to70	7.44E-06
2381	ALL	353381.5	3793495	7.44E-06	6.5YrCancerDerived_Inh_FAH16to70	7.44E-06
2133	ALL	353456.5	3793330	7.44E-06	6.5YrCancerDerived_Inh_FAH16to70	7.44E-06
1563	ALL	353565.5	3792910	7.43E-06	6.5YrCancerDerived_Inh_FAH16to70	7.43E-06
636	ALL	354148.1	3792993	7.43E-06	6.5YrCancerDerived_Inh_FAH16to70	7.43E-06
2034	ALL	353471.5	3793270	7.41E-06	6.5YrCancerDerived_Inh_FAH16to70	7.41E-06
539	ALL	354048.1	3792918	7.40E-06	6.5YrCancerDerived_Inh_FAH16to70	7.40E-06
2300	ALL	353411.5	3793435	7.40E-06	6.5YrCancerDerived_Inh_FAH16to70	7.40E-06
2254	ALL	353426.5	3793405	7.39E-06	6.5YrCancerDerived_Inh_FAH16to70	7.39E-06
2207	ALL	353441.5	3793375	7.39E-06	6.5YrCancerDerived_Inh_FAH16to70	7.39E-06
443	ALL	353973.1	3792843	7.38E-06	6.5YrCancerDerived_Inh_FAH16to70	7.38E-06
1025	ALL	354448.1	3793343	7.37E-06	6.5YrCancerDerived_Inh_FAH16to70	7.37E-06
2437	ALL	353366.5	3793540	7.36E-06	6.5YrCancerDerived_Inh_FAH16to70	7.36E-06
604	ALL	354123.1	3792968	7.36E-06	6.5YrCancerDerived_Inh_FAH16to70	7.36E-06
2362	ALL	353381.5	3793480	7.36E-06	6.5YrCancerDerived_Inh_FAH16to70	7.36E-06
507	ALL	354023.1	3792893	7.35E-06	6.5YrCancerDerived_Inh_FAH16to70	7.35E-06
2108	ALL	353456.5	3793315	7.34E-06	6.5YrCancerDerived_Inh_FAH16to70	7.34E-06
1795	ALL	353515.5	3793110	7.34E-06	6.5YrCancerDerived_Inh_FAH16to70	7.34E-06
475	ALL	353998.1	3792868	7.33E-06	6.5YrCancerDerived_Inh_FAH16to70	7.33E-06

1884	ALL	353490.5	3793185	7.33E-06	6.5YrCancerDerived_Inh_FAH16to70	7.33E-06
1305	ALL	353640.5	3792685	7.33E-06	6.5YrCancerDerived_Inh_FAH16to70	7.33E-06
947	ALL	354398.1	3793243	7.33E-06	6.5YrCancerDerived_Inh_FAH16to70	7.33E-06
2021	ALL	353471.5	3793255	7.31E-06	6.5YrCancerDerived_Inh_FAH16to70	7.31E-06
767	ALL	354273.1	3793093	7.31E-06	6.5YrCancerDerived_Inh_FAH16to70	7.31E-06
2321	ALL	353396.5	3793450	7.31E-06	6.5YrCancerDerived_Inh_FAH16to70	7.31E-06
1448	ALL	353590.5	3792810	7.30E-06	6.5YrCancerDerived_Inh_FAH16to70	7.30E-06
2418	ALL	353366.5	3793525	7.29E-06	6.5YrCancerDerived_Inh_FAH16to70	7.29E-06
2182	ALL	353441.5	3793360	7.28E-06	6.5YrCancerDerived_Inh_FAH16to70	7.28E-06
1649	ALL	353540.5	3792985	7.26E-06	6.5YrCancerDerived_Inh_FAH16to70	7.26E-06
2083	ALL	353456.5	3793300	7.26E-06	6.5YrCancerDerived_Inh_FAH16to70	7.26E-06
1362	ALL	353615.5	3792735	7.25E-06	6.5YrCancerDerived_Inh_FAH16to70	7.25E-06
2342	ALL	353381.5	3793465	7.24E-06	6.5YrCancerDerived_Inh_FAH16to70	7.24E-06
2277	ALL	353411.5	3793420	7.24E-06	6.5YrCancerDerived_Inh_FAH16to70	7.24E-06
734	ALL	354248.1	3793068	7.24E-06	6.5YrCancerDerived_Inh_FAH16to70	7.24E-06
1765	ALL	353515.5	3793085	7.23E-06	6.5YrCancerDerived_Inh_FAH16to70	7.23E-06
833	ALL	354323.1	3793143	7.23E-06	6.5YrCancerDerived_Inh_FAH16to70	7.23E-06
380	ALL	353948.1	3792793	7.22E-06	6.5YrCancerDerived_Inh_FAH16to70	7.22E-06
1534	ALL	353565.5	3792885	7.22E-06	6.5YrCancerDerived_Inh_FAH16to70	7.22E-06
800	ALL	354298.1	3793118	7.22E-06	6.5YrCancerDerived_Inh_FAH16to70	7.22E-06
572	ALL	354098.1	3792943	7.21E-06	6.5YrCancerDerived_Inh_FAH16to70	7.21E-06
2399	ALL	353366.5	3793510	7.21E-06	6.5YrCancerDerived_Inh_FAH16to70	7.21E-06
866	ALL	354348.1	3793168	7.20E-06	6.5YrCancerDerived_Inh_FAH16to70	7.20E-06
2230	ALL	353426.5	3793390	7.20E-06	6.5YrCancerDerived_Inh_FAH16to70	7.20E-06
2157	ALL	353441.5	3793345	7.18E-06	6.5YrCancerDerived_Inh_FAH16to70	7.18E-06
701	ALL	354223.1	3793043	7.18E-06	6.5YrCancerDerived_Inh_FAH16to70	7.18E-06
669	ALL	354198.1	3793018	7.17E-06	6.5YrCancerDerived_Inh_FAH16to70	7.17E-06
2058	ALL	353456.5	3793285	7.17E-06	6.5YrCancerDerived_Inh_FAH16to70	7.17E-06
1006	ALL	354448.1	3793318	7.17E-06	6.5YrCancerDerived_Inh_FAH16to70	7.17E-06
1854	ALL	353490.5	3793160	7.17E-06	6.5YrCancerDerived_Inh_FAH16to70	7.17E-06
1735	ALL	353515.5	3793060	7.16E-06	6.5YrCancerDerived_Inh_FAH16to70	7.16E-06
637	ALL	354173.1	3792993	7.15E-06	6.5YrCancerDerived_Inh_FAH16to70	7.15E-06
2380	ALL	353366.5	3793495	7.14E-06	6.5YrCancerDerived_Inh_FAH16to70	7.14E-06
967	ALL	354423.1	3793268	7.14E-06	6.5YrCancerDerived_Inh_FAH16to70	7.14E-06
540	ALL	354073.1	3792918	7.14E-06	6.5YrCancerDerived_Inh_FAH16to70	7.14E-06
899	ALL	354373.1	3793193	7.13E-06	6.5YrCancerDerived_Inh_FAH16to70	7.13E-06
317	ALL	353923.1	3792743	7.12E-06	6.5YrCancerDerived_Inh_FAH16to70	7.12E-06
1220	ALL	353690.5	3792610	7.10E-06	6.5YrCancerDerived_Inh_FAH16to70	7.10E-06
2132	ALL	353441.5	3793330	7.10E-06	6.5YrCancerDerived_Inh_FAH16to70	7.10E-06
254	ALL	353898.1	3792693	7.09E-06	6.5YrCancerDerived_Inh_FAH16to70	7.09E-06
2299	ALL	353396.5	3793435	7.09E-06	6.5YrCancerDerived_Inh_FAH16to70	7.09E-06
508	ALL	354048.1	3792893	7.08E-06	6.5YrCancerDerived_Inh_FAH16to70	7.08E-06
2253	ALL	353411.5	3793405	7.08E-06	6.5YrCancerDerived_Inh_FAH16to70	7.08E-06
2033	ALL	353456.5	3793270	7.08E-06	6.5YrCancerDerived_Inh_FAH16to70	7.08E-06
412	ALL	353973.1	3792818	7.08E-06	6.5YrCancerDerived_Inh_FAH16to70	7.08E-06
1620	ALL	353540.5	3792960	7.08E-06	6.5YrCancerDerived_Inh_FAH16to70	7.08E-06
2206	ALL	353426.5	3793375	7.06E-06	6.5YrCancerDerived_Inh_FAH16to70	7.06E-06

2361	ALL	353366.5	3793480	7.06E-06	6.5YrCancerDerived_Inh_FAH16to70	7.06E-06
2320	ALL	353381.5	3793450	7.03E-06	6.5YrCancerDerived_Inh_FAH16to70	7.03E-06
476	ALL	354023.1	3792868	7.02E-06	6.5YrCancerDerived_Inh_FAH16to70	7.02E-06
1073	ALL	354473.1	3793418	7.02E-06	6.5YrCancerDerived_Inh_FAH16to70	7.02E-06
605	ALL	354148.1	3792968	7.02E-06	6.5YrCancerDerived_Inh_FAH16to70	7.02E-06
444	ALL	353998.1	3792843	7.01E-06	6.5YrCancerDerived_Inh_FAH16to70	7.01E-06
2107	ALL	353441.5	3793315	7.01E-06	6.5YrCancerDerived_Inh_FAH16to70	7.01E-06
1419	ALL	353590.5	3792785	7.01E-06	6.5YrCancerDerived_Inh_FAH16to70	7.01E-06
1824	ALL	353490.5	3793135	7.01E-06	6.5YrCancerDerived_Inh_FAH16to70	7.01E-06
1706	ALL	353515.5	3793035	7.01E-06	6.5YrCancerDerived_Inh_FAH16to70	7.01E-06
1505	ALL	353565.5	3792860	7.00E-06	6.5YrCancerDerived_Inh_FAH16to70	7.00E-06
931	ALL	354398.1	3793218	6.99E-06	6.5YrCancerDerived_Inh_FAH16to70	6.99E-06
2020	ALL	353456.5	3793255	6.99E-06	6.5YrCancerDerived_Inh_FAH16to70	6.99E-06
573	ALL	354123.1	3792943	6.98E-06	6.5YrCancerDerived_Inh_FAH16to70	6.98E-06
2181	ALL	353426.5	3793360	6.97E-06	6.5YrCancerDerived_Inh_FAH16to70	6.97E-06
159	ALL	353848.1	3792618	6.97E-06	6.5YrCancerDerived_Inh_FAH16to70	6.97E-06
2341	ALL	353366.5	3793465	6.96E-06	6.5YrCancerDerived_Inh_FAH16to70	6.96E-06
349	ALL	353948.1	3792768	6.96E-06	6.5YrCancerDerived_Inh_FAH16to70	6.96E-06
1248	ALL	353665.5	3792635	6.95E-06	6.5YrCancerDerived_Inh_FAH16to70	6.95E-06
1058	ALL	354473.1	3793393	6.95E-06	6.5YrCancerDerived_Inh_FAH16to70	6.95E-06
2276	ALL	353396.5	3793420	6.94E-06	6.5YrCancerDerived_Inh_FAH16to70	6.94E-06
2082	ALL	353441.5	3793300	6.94E-06	6.5YrCancerDerived_Inh_FAH16to70	6.94E-06
987	ALL	354448.1	3793293	6.94E-06	6.5YrCancerDerived_Inh_FAH16to70	6.94E-06
1913	ALL	353465.5	3793210	6.92E-06	6.5YrCancerDerived_Inh_FAH16to70	6.92E-06
2156	ALL	353426.5	3793345	6.89E-06	6.5YrCancerDerived_Inh_FAH16to70	6.89E-06
2229	ALL	353411.5	3793390	6.89E-06	6.5YrCancerDerived_Inh_FAH16to70	6.89E-06
1591	ALL	353540.5	3792935	6.89E-06	6.5YrCancerDerived_Inh_FAH16to70	6.89E-06
1192	ALL	353715.5	3792585	6.89E-06	6.5YrCancerDerived_Inh_FAH16to70	6.89E-06
541	ALL	354098.1	3792918	6.87E-06	6.5YrCancerDerived_Inh_FAH16to70	6.87E-06
2057	ALL	353441.5	3793285	6.86E-06	6.5YrCancerDerived_Inh_FAH16to70	6.86E-06
1042	ALL	354473.1	3793368	6.86E-06	6.5YrCancerDerived_Inh_FAH16to70	6.86E-06
735	ALL	354273.1	3793068	6.86E-06	6.5YrCancerDerived_Inh_FAH16to70	6.86E-06
948	ALL	354423.1	3793243	6.86E-06	6.5YrCancerDerived_Inh_FAH16to70	6.86E-06
191	ALL	353873.1	3792643	6.85E-06	6.5YrCancerDerived_Inh_FAH16to70	6.85E-06
768	ALL	354298.1	3793093	6.85E-06	6.5YrCancerDerived_Inh_FAH16to70	6.85E-06
127	ALL	353823.1	3792593	6.84E-06	6.5YrCancerDerived_Inh_FAH16to70	6.84E-06
801	ALL	354323.1	3793118	6.84E-06	6.5YrCancerDerived_Inh_FAH16to70	6.84E-06
2298	ALL	353381.5	3793435	6.84E-06	6.5YrCancerDerived_Inh_FAH16to70	6.84E-06
834	ALL	354348.1	3793143	6.84E-06	6.5YrCancerDerived_Inh_FAH16to70	6.84E-06
670	ALL	354223.1	3793018	6.83E-06	6.5YrCancerDerived_Inh_FAH16to70	6.83E-06
1677	ALL	353515.5	3793010	6.83E-06	6.5YrCancerDerived_Inh_FAH16to70	6.83E-06
638	ALL	354198.1	3792993	6.83E-06	6.5YrCancerDerived_Inh_FAH16to70	6.83E-06
509	ALL	354073.1	3792893	6.82E-06	6.5YrCancerDerived_Inh_FAH16to70	6.82E-06
702	ALL	354248.1	3793043	6.82E-06	6.5YrCancerDerived_Inh_FAH16to70	6.82E-06
2319	ALL	353366.5	3793450	6.81E-06	6.5YrCancerDerived_Inh_FAH16to70	6.81E-06
1794	ALL	353490.5	3793110	6.81E-06	6.5YrCancerDerived_Inh_FAH16to70	6.81E-06
2131	ALL	353426.5	3793330	6.80E-06	6.5YrCancerDerived_Inh_FAH16to70	6.80E-06

381	ALL	353973.1	3792793	6.80E-06	6.5YrCancerDerived_Inh_FAH16to70	6.80E-06
286	ALL	353923.1	3792718	6.79E-06	6.5YrCancerDerived_Inh_FAH16to70	6.79E-06
1333	ALL	353615.5	3792710	6.79E-06	6.5YrCancerDerived_Inh_FAH16to70	6.79E-06
2252	ALL	353396.5	3793405	6.78E-06	6.5YrCancerDerived_Inh_FAH16to70	6.78E-06
94	ALL	353773.1	3792568	6.78E-06	6.5YrCancerDerived_Inh_FAH16to70	6.78E-06
867	ALL	354373.1	3793168	6.78E-06	6.5YrCancerDerived_Inh_FAH16to70	6.78E-06
2032	ALL	353441.5	3793270	6.78E-06	6.5YrCancerDerived_Inh_FAH16to70	6.78E-06
1883	ALL	353465.5	3793185	6.77E-06	6.5YrCancerDerived_Inh_FAH16to70	6.77E-06
477	ALL	354048.1	3792868	6.76E-06	6.5YrCancerDerived_Inh_FAH16to70	6.76E-06
1476	ALL	353565.5	3792835	6.76E-06	6.5YrCancerDerived_Inh_FAH16to70	6.76E-06
2205	ALL	353411.5	3793375	6.76E-06	6.5YrCancerDerived_Inh_FAH16to70	6.76E-06
1026	ALL	354473.1	3793343	6.75E-06	6.5YrCancerDerived_Inh_FAH16to70	6.75E-06
2106	ALL	353426.5	3793315	6.72E-06	6.5YrCancerDerived_Inh_FAH16to70	6.72E-06
413	ALL	353998.1	3792818	6.72E-06	6.5YrCancerDerived_Inh_FAH16to70	6.72E-06
445	ALL	354023.1	3792843	6.70E-06	6.5YrCancerDerived_Inh_FAH16to70	6.70E-06
606	ALL	354173.1	3792968	6.70E-06	6.5YrCancerDerived_Inh_FAH16to70	6.70E-06
1562	ALL	353540.5	3792910	6.70E-06	6.5YrCancerDerived_Inh_FAH16to70	6.70E-06
2275	ALL	353381.5	3793420	6.70E-06	6.5YrCancerDerived_Inh_FAH16to70	6.70E-06
2180	ALL	353411.5	3793360	6.69E-06	6.5YrCancerDerived_Inh_FAH16to70	6.69E-06
2019	ALL	353441.5	3793255	6.69E-06	6.5YrCancerDerived_Inh_FAH16to70	6.69E-06
1390	ALL	353590.5	3792760	6.69E-06	6.5YrCancerDerived_Inh_FAH16to70	6.69E-06
968	ALL	354448.1	3793268	6.68E-06	6.5YrCancerDerived_Inh_FAH16to70	6.68E-06
2297	ALL	353366.5	3793435	6.67E-06	6.5YrCancerDerived_Inh_FAH16to70	6.67E-06
900	ALL	354398.1	3793193	6.66E-06	6.5YrCancerDerived_Inh_FAH16to70	6.66E-06
223	ALL	353898.1	3792668	6.66E-06	6.5YrCancerDerived_Inh_FAH16to70	6.66E-06
2081	ALL	353426.5	3793300	6.65E-06	6.5YrCancerDerived_Inh_FAH16to70	6.65E-06
574	ALL	354148.1	3792943	6.65E-06	6.5YrCancerDerived_Inh_FAH16to70	6.65E-06
1276	ALL	353640.5	3792660	6.65E-06	6.5YrCancerDerived_Inh_FAH16to70	6.65E-06
1648	ALL	353515.5	3792985	6.65E-06	6.5YrCancerDerived_Inh_FAH16to70	6.65E-06
1853	ALL	353465.5	3793160	6.64E-06	6.5YrCancerDerived_Inh_FAH16to70	6.64E-06
1764	ALL	353490.5	3793085	6.63E-06	6.5YrCancerDerived_Inh_FAH16to70	6.63E-06
2155	ALL	353411.5	3793345	6.62E-06	6.5YrCancerDerived_Inh_FAH16to70	6.62E-06
542	ALL	354123.1	3792918	6.62E-06	6.5YrCancerDerived_Inh_FAH16to70	6.62E-06
2228	ALL	353396.5	3793390	6.60E-06	6.5YrCancerDerived_Inh_FAH16to70	6.60E-06
1007	ALL	354473.1	3793318	6.60E-06	6.5YrCancerDerived_Inh_FAH16to70	6.60E-06
318	ALL	353948.1	3792743	6.60E-06	6.5YrCancerDerived_Inh_FAH16to70	6.60E-06
2056	ALL	353426.5	3793285	6.58E-06	6.5YrCancerDerived_Inh_FAH16to70	6.58E-06
932	ALL	354423.1	3793218	6.58E-06	6.5YrCancerDerived_Inh_FAH16to70	6.58E-06
510	ALL	354098.1	3792893	6.56E-06	6.5YrCancerDerived_Inh_FAH16to70	6.56E-06
2130	ALL	353411.5	3793330	6.55E-06	6.5YrCancerDerived_Inh_FAH16to70	6.55E-06
2251	ALL	353381.5	3793405	6.54E-06	6.5YrCancerDerived_Inh_FAH16to70	6.54E-06
350	ALL	353973.1	3792768	6.53E-06	6.5YrCancerDerived_Inh_FAH16to70	6.53E-06
2274	ALL	353366.5	3793420	6.52E-06	6.5YrCancerDerived_Inh_FAH16to70	6.52E-06
639	ALL	354223.1	3792993	6.52E-06	6.5YrCancerDerived_Inh_FAH16to70	6.52E-06
1533	ALL	353540.5	3792885	6.51E-06	6.5YrCancerDerived_Inh_FAH16to70	6.51E-06
1734	ALL	353490.5	3793060	6.51E-06	6.5YrCancerDerived_Inh_FAH16to70	6.51E-06
769	ALL	354323.1	3793093	6.51E-06	6.5YrCancerDerived_Inh_FAH16to70	6.51E-06

671	ALL	354248.1	3793018	6.51E-06	6.5YrCancerDerived_Inh_FAH16to70	6.51E-06
1447	ALL	353565.5	3792810	6.51E-06	6.5YrCancerDerived_Inh_FAH16to70	6.51E-06
1074	ALL	354498.1	3793418	6.51E-06	6.5YrCancerDerived_Inh_FAH16to70	6.51E-06
478	ALL	354073.1	3792868	6.50E-06	6.5YrCancerDerived_Inh_FAH16to70	6.50E-06
2031	ALL	353426.5	3793270	6.50E-06	6.5YrCancerDerived_Inh_FAH16to70	6.50E-06
802	ALL	354348.1	3793118	6.49E-06	6.5YrCancerDerived_Inh_FAH16to70	6.49E-06
736	ALL	354298.1	3793068	6.49E-06	6.5YrCancerDerived_Inh_FAH16to70	6.49E-06
703	ALL	354273.1	3793043	6.49E-06	6.5YrCancerDerived_Inh_FAH16to70	6.49E-06
1823	ALL	353465.5	3793135	6.49E-06	6.5YrCancerDerived_Inh_FAH16to70	6.49E-06
2204	ALL	353396.5	3793375	6.48E-06	6.5YrCancerDerived_Inh_FAH16to70	6.48E-06
2105	ALL	353411.5	3793315	6.47E-06	6.5YrCancerDerived_Inh_FAH16to70	6.47E-06
1619	ALL	353515.5	3792960	6.46E-06	6.5YrCancerDerived_Inh_FAH16to70	6.46E-06
382	ALL	353998.1	3792793	6.46E-06	6.5YrCancerDerived_Inh_FAH16to70	6.46E-06
255	ALL	353923.1	3792693	6.45E-06	6.5YrCancerDerived_Inh_FAH16to70	6.45E-06
1705	ALL	353490.5	3793035	6.45E-06	6.5YrCancerDerived_Inh_FAH16to70	6.45E-06
835	ALL	354373.1	3793143	6.45E-06	6.5YrCancerDerived_Inh_FAH16to70	6.45E-06
1912	ALL	353440.5	3793210	6.43E-06	6.5YrCancerDerived_Inh_FAH16to70	6.43E-06
446	ALL	354048.1	3792843	6.43E-06	6.5YrCancerDerived_Inh_FAH16to70	6.43E-06
949	ALL	354448.1	3793243	6.43E-06	6.5YrCancerDerived_Inh_FAH16to70	6.43E-06
2018	ALL	353426.5	3793255	6.42E-06	6.5YrCancerDerived_Inh_FAH16to70	6.42E-06
414	ALL	354023.1	3792818	6.42E-06	6.5YrCancerDerived_Inh_FAH16to70	6.42E-06
2179	ALL	353396.5	3793360	6.42E-06	6.5YrCancerDerived_Inh_FAH16to70	6.42E-06
988	ALL	354473.1	3793293	6.41E-06	6.5YrCancerDerived_Inh_FAH16to70	6.41E-06
607	ALL	354198.1	3792968	6.40E-06	6.5YrCancerDerived_Inh_FAH16to70	6.40E-06
1059	ALL	354498.1	3793393	6.40E-06	6.5YrCancerDerived_Inh_FAH16to70	6.40E-06
95	ALL	353798.1	3792568	6.40E-06	6.5YrCancerDerived_Inh_FAH16to70	6.40E-06
2080	ALL	353411.5	3793300	6.40E-06	6.5YrCancerDerived_Inh_FAH16to70	6.40E-06
575	ALL	354173.1	3792943	6.38E-06	6.5YrCancerDerived_Inh_FAH16to70	6.38E-06
1793	ALL	353465.5	3793110	6.37E-06	6.5YrCancerDerived_Inh_FAH16to70	6.37E-06
2250	ALL	353366.5	3793405	6.37E-06	6.5YrCancerDerived_Inh_FAH16to70	6.37E-06
2154	ALL	353396.5	3793345	6.35E-06	6.5YrCancerDerived_Inh_FAH16to70	6.35E-06
868	ALL	354398.1	3793168	6.35E-06	6.5YrCancerDerived_Inh_FAH16to70	6.35E-06
2227	ALL	353381.5	3793390	6.35E-06	6.5YrCancerDerived_Inh_FAH16to70	6.35E-06
1361	ALL	353590.5	3792735	6.34E-06	6.5YrCancerDerived_Inh_FAH16to70	6.34E-06
543	ALL	354148.1	3792918	6.33E-06	6.5YrCancerDerived_Inh_FAH16to70	6.33E-06
2055	ALL	353411.5	3793285	6.33E-06	6.5YrCancerDerived_Inh_FAH16to70	6.33E-06
1504	ALL	353540.5	3792860	6.32E-06	6.5YrCancerDerived_Inh_FAH16to70	6.32E-06
1882	ALL	353440.5	3793185	6.31E-06	6.5YrCancerDerived_Inh_FAH16to70	6.31E-06
1676	ALL	353490.5	3793010	6.30E-06	6.5YrCancerDerived_Inh_FAH16to70	6.30E-06
1043	ALL	354498.1	3793368	6.30E-06	6.5YrCancerDerived_Inh_FAH16to70	6.30E-06
511	ALL	354123.1	3792893	6.30E-06	6.5YrCancerDerived_Inh_FAH16to70	6.30E-06
1304	ALL	353615.5	3792685	6.29E-06	6.5YrCancerDerived_Inh_FAH16to70	6.29E-06
901	ALL	354423.1	3793193	6.29E-06	6.5YrCancerDerived_Inh_FAH16to70	6.29E-06
287	ALL	353948.1	3792718	6.29E-06	6.5YrCancerDerived_Inh_FAH16to70	6.29E-06
1590	ALL	353515.5	3792935	6.28E-06	6.5YrCancerDerived_Inh_FAH16to70	6.28E-06
2129	ALL	353396.5	3793330	6.28E-06	6.5YrCancerDerived_Inh_FAH16to70	6.28E-06
479	ALL	354098.1	3792868	6.26E-06	6.5YrCancerDerived_Inh_FAH16to70	6.26E-06

2030	ALL	353411.5	3793270	6.25E-06	6.5YrCancerDerived_Inh_FAH16to70	6.25E-06
160	ALL	353873.1	3792618	6.25E-06	6.5YrCancerDerived_Inh_FAH16to70	6.25E-06
1418	ALL	353565.5	3792785	6.24E-06	6.5YrCancerDerived_Inh_FAH16to70	6.24E-06
2203	ALL	353381.5	3793375	6.23E-06	6.5YrCancerDerived_Inh_FAH16to70	6.23E-06
640	ALL	354248.1	3792993	6.22E-06	6.5YrCancerDerived_Inh_FAH16to70	6.22E-06
2104	ALL	353396.5	3793315	6.21E-06	6.5YrCancerDerived_Inh_FAH16to70	6.21E-06
969	ALL	354473.1	3793268	6.20E-06	6.5YrCancerDerived_Inh_FAH16to70	6.20E-06
1027	ALL	354498.1	3793343	6.20E-06	6.5YrCancerDerived_Inh_FAH16to70	6.20E-06
672	ALL	354273.1	3793018	6.20E-06	6.5YrCancerDerived_Inh_FAH16to70	6.20E-06
447	ALL	354073.1	3792843	6.19E-06	6.5YrCancerDerived_Inh_FAH16to70	6.19E-06
770	ALL	354348.1	3793093	6.19E-06	6.5YrCancerDerived_Inh_FAH16to70	6.19E-06
192	ALL	353898.1	3792643	6.19E-06	6.5YrCancerDerived_Inh_FAH16to70	6.19E-06
319	ALL	353973.1	3792743	6.19E-06	6.5YrCancerDerived_Inh_FAH16to70	6.19E-06
737	ALL	354323.1	3793068	6.19E-06	6.5YrCancerDerived_Inh_FAH16to70	6.19E-06
2226	ALL	353366.5	3793390	6.18E-06	6.5YrCancerDerived_Inh_FAH16to70	6.18E-06
128	ALL	353848.1	3792593	6.18E-06	6.5YrCancerDerived_Inh_FAH16to70	6.18E-06
351	ALL	353998.1	3792768	6.18E-06	6.5YrCancerDerived_Inh_FAH16to70	6.18E-06
2017	ALL	353411.5	3793255	6.18E-06	6.5YrCancerDerived_Inh_FAH16to70	6.18E-06
1852	ALL	353440.5	3793160	6.17E-06	6.5YrCancerDerived_Inh_FAH16to70	6.17E-06
704	ALL	354298.1	3793043	6.17E-06	6.5YrCancerDerived_Inh_FAH16to70	6.17E-06
383	ALL	354023.1	3792793	6.17E-06	6.5YrCancerDerived_Inh_FAH16to70	6.17E-06
1763	ALL	353465.5	3793085	6.16E-06	6.5YrCancerDerived_Inh_FAH16to70	6.16E-06
415	ALL	354048.1	3792818	6.16E-06	6.5YrCancerDerived_Inh_FAH16to70	6.16E-06
2178	ALL	353381.5	3793360	6.16E-06	6.5YrCancerDerived_Inh_FAH16to70	6.16E-06
933	ALL	354448.1	3793218	6.15E-06	6.5YrCancerDerived_Inh_FAH16to70	6.15E-06
1075	ALL	354523.1	3793418	6.15E-06	6.5YrCancerDerived_Inh_FAH16to70	6.15E-06
803	ALL	354373.1	3793118	6.14E-06	6.5YrCancerDerived_Inh_FAH16to70	6.14E-06
2079	ALL	353396.5	3793300	6.14E-06	6.5YrCancerDerived_Inh_FAH16to70	6.14E-06
608	ALL	354223.1	3792968	6.12E-06	6.5YrCancerDerived_Inh_FAH16to70	6.12E-06
1647	ALL	353490.5	3792985	6.11E-06	6.5YrCancerDerived_Inh_FAH16to70	6.11E-06
544	ALL	354173.1	3792918	6.10E-06	6.5YrCancerDerived_Inh_FAH16to70	6.10E-06
1561	ALL	353515.5	3792910	6.10E-06	6.5YrCancerDerived_Inh_FAH16to70	6.10E-06
576	ALL	354198.1	3792943	6.10E-06	6.5YrCancerDerived_Inh_FAH16to70	6.10E-06
1475	ALL	353540.5	3792835	6.10E-06	6.5YrCancerDerived_Inh_FAH16to70	6.10E-06
224	ALL	353923.1	3792668	6.09E-06	6.5YrCancerDerived_Inh_FAH16to70	6.09E-06
2153	ALL	353381.5	3793345	6.09E-06	6.5YrCancerDerived_Inh_FAH16to70	6.09E-06
1219	ALL	353665.5	3792610	6.08E-06	6.5YrCancerDerived_Inh_FAH16to70	6.08E-06
1008	ALL	354498.1	3793318	6.08E-06	6.5YrCancerDerived_Inh_FAH16to70	6.08E-06
2054	ALL	353396.5	3793285	6.07E-06	6.5YrCancerDerived_Inh_FAH16to70	6.07E-06
836	ALL	354398.1	3793143	6.06E-06	6.5YrCancerDerived_Inh_FAH16to70	6.06E-06
512	ALL	354148.1	3792893	6.04E-06	6.5YrCancerDerived_Inh_FAH16to70	6.04E-06
1191	ALL	353690.5	3792585	6.03E-06	6.5YrCancerDerived_Inh_FAH16to70	6.03E-06
1822	ALL	353440.5	3793135	6.03E-06	6.5YrCancerDerived_Inh_FAH16to70	6.03E-06
2128	ALL	353381.5	3793330	6.02E-06	6.5YrCancerDerived_Inh_FAH16to70	6.02E-06
480	ALL	354123.1	3792868	6.02E-06	6.5YrCancerDerived_Inh_FAH16to70	6.02E-06
869	ALL	354423.1	3793168	6.01E-06	6.5YrCancerDerived_Inh_FAH16to70	6.01E-06
2202	ALL	353366.5	3793375	6.01E-06	6.5YrCancerDerived_Inh_FAH16to70	6.01E-06

2029	ALL	353396.5	3793270	6.00E-06	6.5YrCancerDerived_Inh_FAH16to70	6.00E-06
1911	ALL	353415.5	3793210	6.00E-06	6.5YrCancerDerived_Inh_FAH16to70	6.00E-06
1733	ALL	353465.5	3793060	6.00E-06	6.5YrCancerDerived_Inh_FAH16to70	6.00E-06
950	ALL	354473.1	3793243	5.99E-06	6.5YrCancerDerived_Inh_FAH16to70	5.99E-06
256	ALL	353948.1	3792693	5.99E-06	6.5YrCancerDerived_Inh_FAH16to70	5.99E-06
1247	ALL	353640.5	3792635	5.98E-06	6.5YrCancerDerived_Inh_FAH16to70	5.98E-06
1060	ALL	354523.1	3793393	5.96E-06	6.5YrCancerDerived_Inh_FAH16to70	5.96E-06
448	ALL	354098.1	3792843	5.96E-06	6.5YrCancerDerived_Inh_FAH16to70	5.96E-06
2103	ALL	353381.5	3793315	5.96E-06	6.5YrCancerDerived_Inh_FAH16to70	5.96E-06
1332	ALL	353590.5	3792710	5.95E-06	6.5YrCancerDerived_Inh_FAH16to70	5.95E-06
1389	ALL	353565.5	3792760	5.95E-06	6.5YrCancerDerived_Inh_FAH16to70	5.95E-06
1792	ALL	353440.5	3793110	5.94E-06	6.5YrCancerDerived_Inh_FAH16to70	5.94E-06
989	ALL	354498.1	3793293	5.94E-06	6.5YrCancerDerived_Inh_FAH16to70	5.94E-06
641	ALL	354273.1	3792993	5.94E-06	6.5YrCancerDerived_Inh_FAH16to70	5.94E-06
1618	ALL	353490.5	3792960	5.94E-06	6.5YrCancerDerived_Inh_FAH16to70	5.94E-06
2016	ALL	353396.5	3793255	5.93E-06	6.5YrCancerDerived_Inh_FAH16to70	5.93E-06
1532	ALL	353515.5	3792885	5.93E-06	6.5YrCancerDerived_Inh_FAH16to70	5.93E-06
96	ALL	353823.1	3792568	5.92E-06	6.5YrCancerDerived_Inh_FAH16to70	5.92E-06
416	ALL	354073.1	3792818	5.92E-06	6.5YrCancerDerived_Inh_FAH16to70	5.92E-06
2177	ALL	353366.5	3793360	5.91E-06	6.5YrCancerDerived_Inh_FAH16to70	5.91E-06
1704	ALL	353465.5	3793035	5.91E-06	6.5YrCancerDerived_Inh_FAH16to70	5.91E-06
384	ALL	354048.1	3792793	5.91E-06	6.5YrCancerDerived_Inh_FAH16to70	5.91E-06
288	ALL	353973.1	3792718	5.91E-06	6.5YrCancerDerived_Inh_FAH16to70	5.91E-06
673	ALL	354298.1	3793018	5.90E-06	6.5YrCancerDerived_Inh_FAH16to70	5.90E-06
738	ALL	354348.1	3793068	5.90E-06	6.5YrCancerDerived_Inh_FAH16to70	5.90E-06
902	ALL	354448.1	3793193	5.89E-06	6.5YrCancerDerived_Inh_FAH16to70	5.89E-06
2078	ALL	353381.5	3793300	5.89E-06	6.5YrCancerDerived_Inh_FAH16to70	5.89E-06
1881	ALL	353415.5	3793185	5.89E-06	6.5YrCancerDerived_Inh_FAH16to70	5.89E-06
705	ALL	354323.1	3793043	5.89E-06	6.5YrCancerDerived_Inh_FAH16to70	5.89E-06
1044	ALL	354523.1	3793368	5.88E-06	6.5YrCancerDerived_Inh_FAH16to70	5.88E-06
352	ALL	354023.1	3792768	5.88E-06	6.5YrCancerDerived_Inh_FAH16to70	5.88E-06
1446	ALL	353540.5	3792810	5.87E-06	6.5YrCancerDerived_Inh_FAH16to70	5.87E-06
320	ALL	353998.1	3792743	5.86E-06	6.5YrCancerDerived_Inh_FAH16to70	5.86E-06
609	ALL	354248.1	3792968	5.86E-06	6.5YrCancerDerived_Inh_FAH16to70	5.86E-06
771	ALL	354373.1	3793093	5.86E-06	6.5YrCancerDerived_Inh_FAH16to70	5.86E-06
513	ALL	354173.1	3792893	5.85E-06	6.5YrCancerDerived_Inh_FAH16to70	5.85E-06
545	ALL	354198.1	3792918	5.85E-06	6.5YrCancerDerived_Inh_FAH16to70	5.85E-06
577	ALL	354223.1	3792943	5.84E-06	6.5YrCancerDerived_Inh_FAH16to70	5.84E-06
2152	ALL	353366.5	3793345	5.83E-06	6.5YrCancerDerived_Inh_FAH16to70	5.83E-06
1076	ALL	354548.1	3793418	5.83E-06	6.5YrCancerDerived_Inh_FAH16to70	5.83E-06
2053	ALL	353381.5	3793285	5.82E-06	6.5YrCancerDerived_Inh_FAH16to70	5.82E-06
1675	ALL	353465.5	3793010	5.81E-06	6.5YrCancerDerived_Inh_FAH16to70	5.81E-06
1762	ALL	353440.5	3793085	5.80E-06	6.5YrCancerDerived_Inh_FAH16to70	5.80E-06
1028	ALL	354523.1	3793343	5.80E-06	6.5YrCancerDerived_Inh_FAH16to70	5.80E-06
1275	ALL	353615.5	3792660	5.79E-06	6.5YrCancerDerived_Inh_FAH16to70	5.79E-06
970	ALL	354498.1	3793268	5.78E-06	6.5YrCancerDerived_Inh_FAH16to70	5.78E-06
804	ALL	354398.1	3793118	5.78E-06	6.5YrCancerDerived_Inh_FAH16to70	5.78E-06

1589	ALL	353490.5	3792935	5.77E-06	6.5YrCancerDerived_Inh_FAH16to70	5.77E-06
481	ALL	354148.1	3792868	5.77E-06	6.5YrCancerDerived_Inh_FAH16to70	5.77E-06
2127	ALL	353366.5	3793330	5.77E-06	6.5YrCancerDerived_Inh_FAH16to70	5.77E-06
1163	ALL	353715.5	3792560	5.76E-06	6.5YrCancerDerived_Inh_FAH16to70	5.76E-06
1851	ALL	353415.5	3793160	5.76E-06	6.5YrCancerDerived_Inh_FAH16to70	5.76E-06
2028	ALL	353381.5	3793270	5.76E-06	6.5YrCancerDerived_Inh_FAH16to70	5.76E-06
837	ALL	354423.1	3793143	5.75E-06	6.5YrCancerDerived_Inh_FAH16to70	5.75E-06
934	ALL	354473.1	3793218	5.75E-06	6.5YrCancerDerived_Inh_FAH16to70	5.75E-06
449	ALL	354123.1	3792843	5.75E-06	6.5YrCancerDerived_Inh_FAH16to70	5.75E-06
1503	ALL	353515.5	3792860	5.74E-06	6.5YrCancerDerived_Inh_FAH16to70	5.74E-06
161	ALL	353898.1	3792618	5.72E-06	6.5YrCancerDerived_Inh_FAH16to70	5.72E-06
193	ALL	353923.1	3792643	5.71E-06	6.5YrCancerDerived_Inh_FAH16to70	5.71E-06
417	ALL	354098.1	3792818	5.70E-06	6.5YrCancerDerived_Inh_FAH16to70	5.70E-06
2102	ALL	353366.5	3793315	5.70E-06	6.5YrCancerDerived_Inh_FAH16to70	5.70E-06
1009	ALL	354523.1	3793318	5.69E-06	6.5YrCancerDerived_Inh_FAH16to70	5.69E-06
2015	ALL	353381.5	3793255	5.69E-06	6.5YrCancerDerived_Inh_FAH16to70	5.69E-06
63	ALL	353773.1	3792543	5.67E-06	6.5YrCancerDerived_Inh_FAH16to70	5.67E-06
129	ALL	353873.1	3792593	5.67E-06	6.5YrCancerDerived_Inh_FAH16to70	5.67E-06
225	ALL	353948.1	3792668	5.67E-06	6.5YrCancerDerived_Inh_FAH16to70	5.67E-06
642	ALL	354298.1	3792993	5.67E-06	6.5YrCancerDerived_Inh_FAH16to70	5.67E-06
385	ALL	354073.1	3792793	5.66E-06	6.5YrCancerDerived_Inh_FAH16to70	5.66E-06
1061	ALL	354548.1	3793393	5.65E-06	6.5YrCancerDerived_Inh_FAH16to70	5.65E-06
870	ALL	354448.1	3793168	5.65E-06	6.5YrCancerDerived_Inh_FAH16to70	5.65E-06
1360	ALL	353565.5	3792735	5.65E-06	6.5YrCancerDerived_Inh_FAH16to70	5.65E-06
1646	ALL	353465.5	3792985	5.65E-06	6.5YrCancerDerived_Inh_FAH16to70	5.65E-06
257	ALL	353973.1	3792693	5.64E-06	6.5YrCancerDerived_Inh_FAH16to70	5.64E-06
2077	ALL	353366.5	3793300	5.64E-06	6.5YrCancerDerived_Inh_FAH16to70	5.64E-06
1417	ALL	353540.5	3792785	5.63E-06	6.5YrCancerDerived_Inh_FAH16to70	5.63E-06
674	ALL	354323.1	3793018	5.63E-06	6.5YrCancerDerived_Inh_FAH16to70	5.63E-06
1821	ALL	353415.5	3793135	5.62E-06	6.5YrCancerDerived_Inh_FAH16to70	5.62E-06
353	ALL	354048.1	3792768	5.62E-06	6.5YrCancerDerived_Inh_FAH16to70	5.62E-06
514	ALL	354198.1	3792893	5.62E-06	6.5YrCancerDerived_Inh_FAH16to70	5.62E-06
706	ALL	354348.1	3793043	5.61E-06	6.5YrCancerDerived_Inh_FAH16to70	5.61E-06
1560	ALL	353490.5	3792910	5.61E-06	6.5YrCancerDerived_Inh_FAH16to70	5.61E-06
1732	ALL	353440.5	3793060	5.61E-06	6.5YrCancerDerived_Inh_FAH16to70	5.61E-06
546	ALL	354223.1	3792918	5.61E-06	6.5YrCancerDerived_Inh_FAH16to70	5.61E-06
1910	ALL	353390.5	3793210	5.60E-06	6.5YrCancerDerived_Inh_FAH16to70	5.60E-06
482	ALL	354173.1	3792868	5.60E-06	6.5YrCancerDerived_Inh_FAH16to70	5.60E-06
289	ALL	353998.1	3792718	5.60E-06	6.5YrCancerDerived_Inh_FAH16to70	5.60E-06
610	ALL	354273.1	3792968	5.59E-06	6.5YrCancerDerived_Inh_FAH16to70	5.59E-06
951	ALL	354498.1	3793243	5.59E-06	6.5YrCancerDerived_Inh_FAH16to70	5.59E-06
321	ALL	354023.1	3792743	5.59E-06	6.5YrCancerDerived_Inh_FAH16to70	5.59E-06
578	ALL	354248.1	3792943	5.59E-06	6.5YrCancerDerived_Inh_FAH16to70	5.59E-06
739	ALL	354373.1	3793068	5.57E-06	6.5YrCancerDerived_Inh_FAH16to70	5.57E-06
990	ALL	354523.1	3793293	5.57E-06	6.5YrCancerDerived_Inh_FAH16to70	5.57E-06
1045	ALL	354548.1	3793368	5.57E-06	6.5YrCancerDerived_Inh_FAH16to70	5.57E-06
2052	ALL	353366.5	3793285	5.57E-06	6.5YrCancerDerived_Inh_FAH16to70	5.57E-06

1303	ALL	353590.5	3792685	5.56E-06	6.5YrCancerDerived_Inh_FAH16to70	5.56E-06
1474	ALL	353515.5	3792835	5.55E-06	6.5YrCancerDerived_Inh_FAH16to70	5.55E-06
1791	ALL	353415.5	3793110	5.55E-06	6.5YrCancerDerived_Inh_FAH16to70	5.55E-06
903	ALL	354473.1	3793193	5.53E-06	6.5YrCancerDerived_Inh_FAH16to70	5.53E-06
772	ALL	354398.1	3793093	5.52E-06	6.5YrCancerDerived_Inh_FAH16to70	5.52E-06
64	ALL	353798.1	3792543	5.52E-06	6.5YrCancerDerived_Inh_FAH16to70	5.52E-06
450	ALL	354148.1	3792843	5.52E-06	6.5YrCancerDerived_Inh_FAH16to70	5.52E-06
805	ALL	354423.1	3793118	5.51E-06	6.5YrCancerDerived_Inh_FAH16to70	5.51E-06
2027	ALL	353366.5	3793270	5.51E-06	6.5YrCancerDerived_Inh_FAH16to70	5.51E-06
418	ALL	354123.1	3792818	5.50E-06	6.5YrCancerDerived_Inh_FAH16to70	5.50E-06
1880	ALL	353390.5	3793185	5.50E-06	6.5YrCancerDerived_Inh_FAH16to70	5.50E-06
1617	ALL	353465.5	3792960	5.49E-06	6.5YrCancerDerived_Inh_FAH16to70	5.49E-06
97	ALL	353848.1	3792568	5.49E-06	6.5YrCancerDerived_Inh_FAH16to70	5.49E-06
1029	ALL	354548.1	3793343	5.47E-06	6.5YrCancerDerived_Inh_FAH16to70	5.47E-06
386	ALL	354098.1	3792793	5.46E-06	6.5YrCancerDerived_Inh_FAH16to70	5.46E-06
1761	ALL	353415.5	3793085	5.45E-06	6.5YrCancerDerived_Inh_FAH16to70	5.45E-06
2014	ALL	353366.5	3793255	5.44E-06	6.5YrCancerDerived_Inh_FAH16to70	5.44E-06
1703	ALL	353440.5	3793035	5.44E-06	6.5YrCancerDerived_Inh_FAH16to70	5.44E-06
1531	ALL	353490.5	3792885	5.44E-06	6.5YrCancerDerived_Inh_FAH16to70	5.44E-06
838	ALL	354448.1	3793143	5.43E-06	6.5YrCancerDerived_Inh_FAH16to70	5.43E-06
971	ALL	354523.1	3793268	5.43E-06	6.5YrCancerDerived_Inh_FAH16to70	5.43E-06
643	ALL	354323.1	3792993	5.41E-06	6.5YrCancerDerived_Inh_FAH16to70	5.41E-06
935	ALL	354498.1	3793218	5.41E-06	6.5YrCancerDerived_Inh_FAH16to70	5.41E-06
354	ALL	354073.1	3792768	5.40E-06	6.5YrCancerDerived_Inh_FAH16to70	5.40E-06
1850	ALL	353390.5	3793160	5.39E-06	6.5YrCancerDerived_Inh_FAH16to70	5.39E-06
515	ALL	354223.1	3792893	5.39E-06	6.5YrCancerDerived_Inh_FAH16to70	5.39E-06
1388	ALL	353540.5	3792760	5.38E-06	6.5YrCancerDerived_Inh_FAH16to70	5.38E-06
1218	ALL	353640.5	3792610	5.38E-06	6.5YrCancerDerived_Inh_FAH16to70	5.38E-06
483	ALL	354198.1	3792868	5.37E-06	6.5YrCancerDerived_Inh_FAH16to70	5.37E-06
1674	ALL	353440.5	3793010	5.37E-06	6.5YrCancerDerived_Inh_FAH16to70	5.37E-06
547	ALL	354248.1	3792918	5.37E-06	6.5YrCancerDerived_Inh_FAH16to70	5.37E-06
1190	ALL	353665.5	3792585	5.37E-06	6.5YrCancerDerived_Inh_FAH16to70	5.37E-06
1010	ALL	354548.1	3793318	5.36E-06	6.5YrCancerDerived_Inh_FAH16to70	5.36E-06
675	ALL	354348.1	3793018	5.36E-06	6.5YrCancerDerived_Inh_FAH16to70	5.36E-06
322	ALL	354048.1	3792743	5.36E-06	6.5YrCancerDerived_Inh_FAH16to70	5.36E-06
258	ALL	353998.1	3792693	5.36E-06	6.5YrCancerDerived_Inh_FAH16to70	5.36E-06
226	ALL	353973.1	3792668	5.35E-06	6.5YrCancerDerived_Inh_FAH16to70	5.35E-06
611	ALL	354298.1	3792968	5.35E-06	6.5YrCancerDerived_Inh_FAH16to70	5.35E-06
1445	ALL	353515.5	3792810	5.35E-06	6.5YrCancerDerived_Inh_FAH16to70	5.35E-06
579	ALL	354273.1	3792943	5.35E-06	6.5YrCancerDerived_Inh_FAH16to70	5.35E-06
1588	ALL	353465.5	3792935	5.34E-06	6.5YrCancerDerived_Inh_FAH16to70	5.34E-06
194	ALL	353948.1	3792643	5.34E-06	6.5YrCancerDerived_Inh_FAH16to70	5.34E-06
290	ALL	354023.1	3792718	5.34E-06	6.5YrCancerDerived_Inh_FAH16to70	5.34E-06
1331	ALL	353565.5	3792710	5.33E-06	6.5YrCancerDerived_Inh_FAH16to70	5.33E-06
162	ALL	353923.1	3792618	5.33E-06	6.5YrCancerDerived_Inh_FAH16to70	5.33E-06
871	ALL	354473.1	3793168	5.32E-06	6.5YrCancerDerived_Inh_FAH16to70	5.32E-06
707	ALL	354373.1	3793043	5.32E-06	6.5YrCancerDerived_Inh_FAH16to70	5.32E-06

451	ALL	354173.1	3792843	5.31E-06	6.5YrCancerDerived_Inh_FAH16to70	5.31E-06
1246	ALL	353615.5	3792635	5.30E-06	6.5YrCancerDerived_Inh_FAH16to70	5.30E-06
1731	ALL	353415.5	3793060	5.29E-06	6.5YrCancerDerived_Inh_FAH16to70	5.29E-06
419	ALL	354148.1	3792818	5.29E-06	6.5YrCancerDerived_Inh_FAH16to70	5.29E-06
387	ALL	354123.1	3792793	5.28E-06	6.5YrCancerDerived_Inh_FAH16to70	5.28E-06
773	ALL	354423.1	3793093	5.28E-06	6.5YrCancerDerived_Inh_FAH16to70	5.28E-06
740	ALL	354398.1	3793068	5.28E-06	6.5YrCancerDerived_Inh_FAH16to70	5.28E-06
130	ALL	353898.1	3792593	5.28E-06	6.5YrCancerDerived_Inh_FAH16to70	5.28E-06
1502	ALL	353490.5	3792860	5.27E-06	6.5YrCancerDerived_Inh_FAH16to70	5.27E-06
952	ALL	354523.1	3793243	5.27E-06	6.5YrCancerDerived_Inh_FAH16to70	5.27E-06
1820	ALL	353390.5	3793135	5.26E-06	6.5YrCancerDerived_Inh_FAH16to70	5.26E-06
1162	ALL	353690.5	3792560	5.25E-06	6.5YrCancerDerived_Inh_FAH16to70	5.25E-06
65	ALL	353823.1	3792543	5.24E-06	6.5YrCancerDerived_Inh_FAH16to70	5.24E-06
1645	ALL	353440.5	3792985	5.24E-06	6.5YrCancerDerived_Inh_FAH16to70	5.24E-06
991	ALL	354548.1	3793293	5.24E-06	6.5YrCancerDerived_Inh_FAH16to70	5.24E-06
1909	ALL	353365.5	3793210	5.24E-06	6.5YrCancerDerived_Inh_FAH16to70	5.24E-06
904	ALL	354498.1	3793193	5.22E-06	6.5YrCancerDerived_Inh_FAH16to70	5.22E-06
355	ALL	354098.1	3792768	5.22E-06	6.5YrCancerDerived_Inh_FAH16to70	5.22E-06
806	ALL	354448.1	3793118	5.21E-06	6.5YrCancerDerived_Inh_FAH16to70	5.21E-06
1790	ALL	353390.5	3793110	5.19E-06	6.5YrCancerDerived_Inh_FAH16to70	5.19E-06
1559	ALL	353465.5	3792910	5.19E-06	6.5YrCancerDerived_Inh_FAH16to70	5.19E-06
516	ALL	354248.1	3792893	5.17E-06	6.5YrCancerDerived_Inh_FAH16to70	5.17E-06
1274	ALL	353590.5	3792660	5.17E-06	6.5YrCancerDerived_Inh_FAH16to70	5.17E-06
644	ALL	354348.1	3792993	5.17E-06	6.5YrCancerDerived_Inh_FAH16to70	5.17E-06
484	ALL	354223.1	3792868	5.16E-06	6.5YrCancerDerived_Inh_FAH16to70	5.16E-06
323	ALL	354073.1	3792743	5.16E-06	6.5YrCancerDerived_Inh_FAH16to70	5.16E-06
548	ALL	354273.1	3792918	5.15E-06	6.5YrCancerDerived_Inh_FAH16to70	5.15E-06
1879	ALL	353365.5	3793185	5.14E-06	6.5YrCancerDerived_Inh_FAH16to70	5.14E-06
1416	ALL	353515.5	3792785	5.14E-06	6.5YrCancerDerived_Inh_FAH16to70	5.14E-06
98	ALL	353873.1	3792568	5.13E-06	6.5YrCancerDerived_Inh_FAH16to70	5.13E-06
580	ALL	354298.1	3792943	5.13E-06	6.5YrCancerDerived_Inh_FAH16to70	5.13E-06
839	ALL	354473.1	3793143	5.13E-06	6.5YrCancerDerived_Inh_FAH16to70	5.13E-06
612	ALL	354323.1	3792968	5.12E-06	6.5YrCancerDerived_Inh_FAH16to70	5.12E-06
1359	ALL	353540.5	3792735	5.12E-06	6.5YrCancerDerived_Inh_FAH16to70	5.12E-06
1702	ALL	353415.5	3793035	5.11E-06	6.5YrCancerDerived_Inh_FAH16to70	5.11E-06
291	ALL	354048.1	3792718	5.11E-06	6.5YrCancerDerived_Inh_FAH16to70	5.11E-06
259	ALL	354023.1	3792693	5.11E-06	6.5YrCancerDerived_Inh_FAH16to70	5.11E-06
936	ALL	354523.1	3793218	5.11E-06	6.5YrCancerDerived_Inh_FAH16to70	5.11E-06
1616	ALL	353440.5	3792960	5.10E-06	6.5YrCancerDerived_Inh_FAH16to70	5.10E-06
972	ALL	354548.1	3793268	5.10E-06	6.5YrCancerDerived_Inh_FAH16to70	5.10E-06
452	ALL	354198.1	3792843	5.10E-06	6.5YrCancerDerived_Inh_FAH16to70	5.10E-06
1760	ALL	353390.5	3793085	5.10E-06	6.5YrCancerDerived_Inh_FAH16to70	5.10E-06
676	ALL	354373.1	3793018	5.10E-06	6.5YrCancerDerived_Inh_FAH16to70	5.10E-06
227	ALL	353998.1	3792668	5.09E-06	6.5YrCancerDerived_Inh_FAH16to70	5.09E-06
1473	ALL	353490.5	3792835	5.09E-06	6.5YrCancerDerived_Inh_FAH16to70	5.09E-06
420	ALL	354173.1	3792818	5.09E-06	6.5YrCancerDerived_Inh_FAH16to70	5.09E-06
388	ALL	354148.1	3792793	5.08E-06	6.5YrCancerDerived_Inh_FAH16to70	5.08E-06

356	ALL	354123.1	3792768	5.07E-06	6.5YrCancerDerived_Inh_FAH16to70	5.07E-06
741	ALL	354423.1	3793068	5.06E-06	6.5YrCancerDerived_Inh_FAH16to70	5.06E-06
708	ALL	354398.1	3793043	5.06E-06	6.5YrCancerDerived_Inh_FAH16to70	5.06E-06
195	ALL	353973.1	3792643	5.06E-06	6.5YrCancerDerived_Inh_FAH16to70	5.06E-06
872	ALL	354498.1	3793168	5.04E-06	6.5YrCancerDerived_Inh_FAH16to70	5.04E-06
1849	ALL	353365.5	3793160	5.04E-06	6.5YrCancerDerived_Inh_FAH16to70	5.04E-06
1530	ALL	353465.5	3792885	5.03E-06	6.5YrCancerDerived_Inh_FAH16to70	5.03E-06
163	ALL	353948.1	3792618	5.02E-06	6.5YrCancerDerived_Inh_FAH16to70	5.02E-06
1302	ALL	353565.5	3792685	5.01E-06	6.5YrCancerDerived_Inh_FAH16to70	5.01E-06
774	ALL	354448.1	3793093	5.00E-06	6.5YrCancerDerived_Inh_FAH16to70	5.00E-06
1134	ALL	353715.5	3792535	5.00E-06	6.5YrCancerDerived_Inh_FAH16to70	5.00E-06
324	ALL	354098.1	3792743	4.99E-06	6.5YrCancerDerived_Inh_FAH16to70	4.99E-06
1730	ALL	353390.5	3793060	4.98E-06	6.5YrCancerDerived_Inh_FAH16to70	4.98E-06
1587	ALL	353440.5	3792935	4.97E-06	6.5YrCancerDerived_Inh_FAH16to70	4.97E-06
517	ALL	354273.1	3792893	4.96E-06	6.5YrCancerDerived_Inh_FAH16to70	4.96E-06
953	ALL	354548.1	3793243	4.96E-06	6.5YrCancerDerived_Inh_FAH16to70	4.96E-06
1673	ALL	353415.5	3793010	4.96E-06	6.5YrCancerDerived_Inh_FAH16to70	4.96E-06
131	ALL	353923.1	3792593	4.96E-06	6.5YrCancerDerived_Inh_FAH16to70	4.96E-06
485	ALL	354248.1	3792868	4.95E-06	6.5YrCancerDerived_Inh_FAH16to70	4.95E-06
66	ALL	353848.1	3792543	4.95E-06	6.5YrCancerDerived_Inh_FAH16to70	4.95E-06
905	ALL	354523.1	3793193	4.95E-06	6.5YrCancerDerived_Inh_FAH16to70	4.95E-06
549	ALL	354298.1	3792918	4.94E-06	6.5YrCancerDerived_Inh_FAH16to70	4.94E-06
807	ALL	354473.1	3793118	4.93E-06	6.5YrCancerDerived_Inh_FAH16to70	4.93E-06
1819	ALL	353365.5	3793135	4.93E-06	6.5YrCancerDerived_Inh_FAH16to70	4.93E-06
292	ALL	354073.1	3792718	4.93E-06	6.5YrCancerDerived_Inh_FAH16to70	4.93E-06
1908	ALL	353340.5	3793210	4.93E-06	6.5YrCancerDerived_Inh_FAH16to70	4.93E-06
32	ALL	353773.1	3792518	4.92E-06	6.5YrCancerDerived_Inh_FAH16to70	4.92E-06
1387	ALL	353515.5	3792760	4.92E-06	6.5YrCancerDerived_Inh_FAH16to70	4.92E-06
1444	ALL	353490.5	3792810	4.91E-06	6.5YrCancerDerived_Inh_FAH16to70	4.91E-06
645	ALL	354373.1	3792993	4.91E-06	6.5YrCancerDerived_Inh_FAH16to70	4.91E-06
389	ALL	354173.1	3792793	4.91E-06	6.5YrCancerDerived_Inh_FAH16to70	4.91E-06
613	ALL	354348.1	3792968	4.90E-06	6.5YrCancerDerived_Inh_FAH16to70	4.90E-06
453	ALL	354223.1	3792843	4.90E-06	6.5YrCancerDerived_Inh_FAH16to70	4.90E-06
421	ALL	354198.1	3792818	4.90E-06	6.5YrCancerDerived_Inh_FAH16to70	4.90E-06
581	ALL	354323.1	3792943	4.89E-06	6.5YrCancerDerived_Inh_FAH16to70	4.89E-06
260	ALL	354048.1	3792693	4.89E-06	6.5YrCancerDerived_Inh_FAH16to70	4.89E-06
1644	ALL	353415.5	3792985	4.88E-06	6.5YrCancerDerived_Inh_FAH16to70	4.88E-06
228	ALL	354023.1	3792668	4.88E-06	6.5YrCancerDerived_Inh_FAH16to70	4.88E-06
1501	ALL	353465.5	3792860	4.87E-06	6.5YrCancerDerived_Inh_FAH16to70	4.87E-06
357	ALL	354148.1	3792768	4.87E-06	6.5YrCancerDerived_Inh_FAH16to70	4.87E-06
840	ALL	354498.1	3793143	4.86E-06	6.5YrCancerDerived_Inh_FAH16to70	4.86E-06
1189	ALL	353640.5	3792585	4.86E-06	6.5YrCancerDerived_Inh_FAH16to70	4.86E-06
677	ALL	354398.1	3793018	4.86E-06	6.5YrCancerDerived_Inh_FAH16to70	4.86E-06
325	ALL	354123.1	3792743	4.85E-06	6.5YrCancerDerived_Inh_FAH16to70	4.85E-06
1217	ALL	353615.5	3792610	4.85E-06	6.5YrCancerDerived_Inh_FAH16to70	4.85E-06
33	ALL	353798.1	3792518	4.85E-06	6.5YrCancerDerived_Inh_FAH16to70	4.85E-06
1330	ALL	353540.5	3792710	4.85E-06	6.5YrCancerDerived_Inh_FAH16to70	4.85E-06

1789	ALL	353365.5	3793110	4.85E-06	6.5YrCancerDerived_Inh_FAH16to70	4.85E-06
709	ALL	354423.1	3793043	4.84E-06	6.5YrCancerDerived_Inh_FAH16to70	4.84E-06
1878	ALL	353340.5	3793185	4.84E-06	6.5YrCancerDerived_Inh_FAH16to70	4.84E-06
99	ALL	353898.1	3792568	4.84E-06	6.5YrCancerDerived_Inh_FAH16to70	4.84E-06
1701	ALL	353390.5	3793035	4.83E-06	6.5YrCancerDerived_Inh_FAH16to70	4.83E-06
937	ALL	354548.1	3793218	4.82E-06	6.5YrCancerDerived_Inh_FAH16to70	4.82E-06
1558	ALL	353440.5	3792910	4.82E-06	6.5YrCancerDerived_Inh_FAH16to70	4.82E-06
196	ALL	353998.1	3792643	4.82E-06	6.5YrCancerDerived_Inh_FAH16to70	4.82E-06
742	ALL	354448.1	3793068	4.81E-06	6.5YrCancerDerived_Inh_FAH16to70	4.81E-06
1161	ALL	353665.5	3792560	4.79E-06	6.5YrCancerDerived_Inh_FAH16to70	4.79E-06
873	ALL	354523.1	3793168	4.79E-06	6.5YrCancerDerived_Inh_FAH16to70	4.79E-06
1245	ALL	353590.5	3792635	4.78E-06	6.5YrCancerDerived_Inh_FAH16to70	4.78E-06
293	ALL	354098.1	3792718	4.78E-06	6.5YrCancerDerived_Inh_FAH16to70	4.78E-06
164	ALL	353973.1	3792618	4.78E-06	6.5YrCancerDerived_Inh_FAH16to70	4.78E-06
486	ALL	354273.1	3792868	4.77E-06	6.5YrCancerDerived_Inh_FAH16to70	4.77E-06
518	ALL	354298.1	3792893	4.76E-06	6.5YrCancerDerived_Inh_FAH16to70	4.76E-06
1615	ALL	353415.5	3792960	4.76E-06	6.5YrCancerDerived_Inh_FAH16to70	4.76E-06
1759	ALL	353365.5	3793085	4.75E-06	6.5YrCancerDerived_Inh_FAH16to70	4.75E-06
775	ALL	354473.1	3793093	4.75E-06	6.5YrCancerDerived_Inh_FAH16to70	4.75E-06
1848	ALL	353340.5	3793160	4.73E-06	6.5YrCancerDerived_Inh_FAH16to70	4.73E-06
1415	ALL	353490.5	3792785	4.73E-06	6.5YrCancerDerived_Inh_FAH16to70	4.73E-06
390	ALL	354198.1	3792793	4.72E-06	6.5YrCancerDerived_Inh_FAH16to70	4.72E-06
550	ALL	354323.1	3792918	4.72E-06	6.5YrCancerDerived_Inh_FAH16to70	4.72E-06
454	ALL	354248.1	3792843	4.71E-06	6.5YrCancerDerived_Inh_FAH16to70	4.71E-06
358	ALL	354173.1	3792768	4.71E-06	6.5YrCancerDerived_Inh_FAH16to70	4.71E-06
422	ALL	354223.1	3792818	4.71E-06	6.5YrCancerDerived_Inh_FAH16to70	4.71E-06
582	ALL	354348.1	3792943	4.71E-06	6.5YrCancerDerived_Inh_FAH16to70	4.71E-06
132	ALL	353948.1	3792593	4.71E-06	6.5YrCancerDerived_Inh_FAH16to70	4.71E-06
614	ALL	354373.1	3792968	4.71E-06	6.5YrCancerDerived_Inh_FAH16to70	4.71E-06
261	ALL	354073.1	3792693	4.71E-06	6.5YrCancerDerived_Inh_FAH16to70	4.71E-06
1472	ALL	353465.5	3792835	4.70E-06	6.5YrCancerDerived_Inh_FAH16to70	4.70E-06
67	ALL	353873.1	3792543	4.69E-06	6.5YrCancerDerived_Inh_FAH16to70	4.69E-06
1273	ALL	353565.5	3792660	4.69E-06	6.5YrCancerDerived_Inh_FAH16to70	4.69E-06
34	ALL	353823.1	3792518	4.68E-06	6.5YrCancerDerived_Inh_FAH16to70	4.68E-06
1358	ALL	353515.5	3792735	4.68E-06	6.5YrCancerDerived_Inh_FAH16to70	4.68E-06
808	ALL	354498.1	3793118	4.68E-06	6.5YrCancerDerived_Inh_FAH16to70	4.68E-06
906	ALL	354548.1	3793193	4.68E-06	6.5YrCancerDerived_Inh_FAH16to70	4.68E-06
1529	ALL	353440.5	3792885	4.67E-06	6.5YrCancerDerived_Inh_FAH16to70	4.67E-06
229	ALL	354048.1	3792668	4.67E-06	6.5YrCancerDerived_Inh_FAH16to70	4.67E-06
1672	ALL	353390.5	3793010	4.67E-06	6.5YrCancerDerived_Inh_FAH16to70	4.67E-06
326	ALL	354148.1	3792743	4.67E-06	6.5YrCancerDerived_Inh_FAH16to70	4.67E-06
646	ALL	354398.1	3792993	4.67E-06	6.5YrCancerDerived_Inh_FAH16to70	4.67E-06
1133	ALL	353690.5	3792535	4.66E-06	6.5YrCancerDerived_Inh_FAH16to70	4.66E-06
1729	ALL	353365.5	3793060	4.65E-06	6.5YrCancerDerived_Inh_FAH16to70	4.65E-06
1907	ALL	353315.5	3793210	4.64E-06	6.5YrCancerDerived_Inh_FAH16to70	4.64E-06
678	ALL	354423.1	3793018	4.64E-06	6.5YrCancerDerived_Inh_FAH16to70	4.64E-06
1818	ALL	353340.5	3793135	4.63E-06	6.5YrCancerDerived_Inh_FAH16to70	4.63E-06

1586	ALL	353415.5	3792935	4.63E-06	6.5YrCancerDerived_Inh_FAH16to70	4.63E-06
197	ALL	354023.1	3792643	4.63E-06	6.5YrCancerDerived_Inh_FAH16to70	4.63E-06
841	ALL	354523.1	3793143	4.63E-06	6.5YrCancerDerived_Inh_FAH16to70	4.63E-06
294	ALL	354123.1	3792718	4.63E-06	6.5YrCancerDerived_Inh_FAH16to70	4.63E-06
710	ALL	354448.1	3793043	4.61E-06	6.5YrCancerDerived_Inh_FAH16to70	4.61E-06
100	ALL	353923.1	3792568	4.59E-06	6.5YrCancerDerived_Inh_FAH16to70	4.59E-06
487	ALL	354298.1	3792868	4.58E-06	6.5YrCancerDerived_Inh_FAH16to70	4.58E-06
1301	ALL	353540.5	3792685	4.57E-06	6.5YrCancerDerived_Inh_FAH16to70	4.57E-06
165	ALL	353998.1	3792618	4.57E-06	6.5YrCancerDerived_Inh_FAH16to70	4.57E-06
743	ALL	354473.1	3793068	4.57E-06	6.5YrCancerDerived_Inh_FAH16to70	4.57E-06
519	ALL	354323.1	3792893	4.57E-06	6.5YrCancerDerived_Inh_FAH16to70	4.57E-06
262	ALL	354098.1	3792693	4.56E-06	6.5YrCancerDerived_Inh_FAH16to70	4.56E-06
1788	ALL	353340.5	3793110	4.56E-06	6.5YrCancerDerived_Inh_FAH16to70	4.56E-06
1877	ALL	353315.5	3793185	4.56E-06	6.5YrCancerDerived_Inh_FAH16to70	4.56E-06
391	ALL	354223.1	3792793	4.55E-06	6.5YrCancerDerived_Inh_FAH16to70	4.55E-06
359	ALL	354198.1	3792768	4.55E-06	6.5YrCancerDerived_Inh_FAH16to70	4.55E-06
551	ALL	354348.1	3792918	4.54E-06	6.5YrCancerDerived_Inh_FAH16to70	4.54E-06
1643	ALL	353390.5	3792985	4.54E-06	6.5YrCancerDerived_Inh_FAH16to70	4.54E-06
1443	ALL	353465.5	3792810	4.54E-06	6.5YrCancerDerived_Inh_FAH16to70	4.54E-06
874	ALL	354548.1	3793168	4.54E-06	6.5YrCancerDerived_Inh_FAH16to70	4.54E-06
1700	ALL	353365.5	3793035	4.53E-06	6.5YrCancerDerived_Inh_FAH16to70	4.53E-06
423	ALL	354248.1	3792818	4.53E-06	6.5YrCancerDerived_Inh_FAH16to70	4.53E-06
455	ALL	354273.1	3792843	4.53E-06	6.5YrCancerDerived_Inh_FAH16to70	4.53E-06
1500	ALL	353440.5	3792860	4.53E-06	6.5YrCancerDerived_Inh_FAH16to70	4.53E-06
1386	ALL	353490.5	3792760	4.53E-06	6.5YrCancerDerived_Inh_FAH16to70	4.53E-06
776	ALL	354498.1	3793093	4.52E-06	6.5YrCancerDerived_Inh_FAH16to70	4.52E-06
583	ALL	354373.1	3792943	4.51E-06	6.5YrCancerDerived_Inh_FAH16to70	4.51E-06
327	ALL	354173.1	3792743	4.51E-06	6.5YrCancerDerived_Inh_FAH16to70	4.51E-06
133	ALL	353973.1	3792593	4.50E-06	6.5YrCancerDerived_Inh_FAH16to70	4.50E-06
1557	ALL	353415.5	3792910	4.50E-06	6.5YrCancerDerived_Inh_FAH16to70	4.50E-06
35	ALL	353848.1	3792518	4.50E-06	6.5YrCancerDerived_Inh_FAH16to70	4.50E-06
230	ALL	354073.1	3792668	4.49E-06	6.5YrCancerDerived_Inh_FAH16to70	4.49E-06
647	ALL	354423.1	3792993	4.48E-06	6.5YrCancerDerived_Inh_FAH16to70	4.48E-06
615	ALL	354398.1	3792968	4.48E-06	6.5YrCancerDerived_Inh_FAH16to70	4.48E-06
68	ALL	353898.1	3792543	4.47E-06	6.5YrCancerDerived_Inh_FAH16to70	4.47E-06
1758	ALL	353340.5	3793085	4.47E-06	6.5YrCancerDerived_Inh_FAH16to70	4.47E-06
295	ALL	354148.1	3792718	4.47E-06	6.5YrCancerDerived_Inh_FAH16to70	4.47E-06
809	ALL	354523.1	3793118	4.46E-06	6.5YrCancerDerived_Inh_FAH16to70	4.46E-06
1847	ALL	353315.5	3793160	4.46E-06	6.5YrCancerDerived_Inh_FAH16to70	4.46E-06
1188	ALL	353615.5	3792585	4.45E-06	6.5YrCancerDerived_Inh_FAH16to70	4.45E-06
1329	ALL	353515.5	3792710	4.45E-06	6.5YrCancerDerived_Inh_FAH16to70	4.45E-06
1105	ALL	353715.5	3792510	4.45E-06	6.5YrCancerDerived_Inh_FAH16to70	4.45E-06
198	ALL	354048.1	3792643	4.45E-06	6.5YrCancerDerived_Inh_FAH16to70	4.45E-06
1614	ALL	353390.5	3792960	4.44E-06	6.5YrCancerDerived_Inh_FAH16to70	4.44E-06
1216	ALL	353590.5	3792610	4.43E-06	6.5YrCancerDerived_Inh_FAH16to70	4.43E-06
679	ALL	354448.1	3793018	4.43E-06	6.5YrCancerDerived_Inh_FAH16to70	4.43E-06
263	ALL	354123.1	3792693	4.42E-06	6.5YrCancerDerived_Inh_FAH16to70	4.42E-06

1160	ALL	353640.5	3792560	4.42E-06	6.5YrCancerDerived_Inh_FAH16to70	4.42E-06
1671	ALL	353365.5	3793010	4.41E-06	6.5YrCancerDerived_Inh_FAH16to70	4.41E-06
488	ALL	354323.1	3792868	4.40E-06	6.5YrCancerDerived_Inh_FAH16to70	4.40E-06
360	ALL	354223.1	3792768	4.40E-06	6.5YrCancerDerived_Inh_FAH16to70	4.40E-06
711	ALL	354473.1	3793043	4.39E-06	6.5YrCancerDerived_Inh_FAH16to70	4.39E-06
166	ALL	354023.1	3792618	4.39E-06	6.5YrCancerDerived_Inh_FAH16to70	4.39E-06
101	ALL	353948.1	3792568	4.39E-06	6.5YrCancerDerived_Inh_FAH16to70	4.39E-06
842	ALL	354548.1	3793143	4.39E-06	6.5YrCancerDerived_Inh_FAH16to70	4.39E-06
520	ALL	354348.1	3792893	4.38E-06	6.5YrCancerDerived_Inh_FAH16to70	4.38E-06
392	ALL	354248.1	3792793	4.38E-06	6.5YrCancerDerived_Inh_FAH16to70	4.38E-06
1244	ALL	353565.5	3792635	4.38E-06	6.5YrCancerDerived_Inh_FAH16to70	4.38E-06
1906	ALL	353290.5	3793210	4.37E-06	6.5YrCancerDerived_Inh_FAH16to70	4.37E-06
1414	ALL	353465.5	3792785	4.37E-06	6.5YrCancerDerived_Inh_FAH16to70	4.37E-06
1	ALL	353773.1	3792493	4.37E-06	6.5YrCancerDerived_Inh_FAH16to70	4.37E-06
1728	ALL	353340.5	3793060	4.37E-06	6.5YrCancerDerived_Inh_FAH16to70	4.37E-06
1471	ALL	353440.5	3792835	4.37E-06	6.5YrCancerDerived_Inh_FAH16to70	4.37E-06
328	ALL	354198.1	3792743	4.37E-06	6.5YrCancerDerived_Inh_FAH16to70	4.37E-06
1528	ALL	353415.5	3792885	4.36E-06	6.5YrCancerDerived_Inh_FAH16to70	4.36E-06
424	ALL	354273.1	3792818	4.36E-06	6.5YrCancerDerived_Inh_FAH16to70	4.36E-06
744	ALL	354498.1	3793068	4.36E-06	6.5YrCancerDerived_Inh_FAH16to70	4.36E-06
456	ALL	354298.1	3792843	4.35E-06	6.5YrCancerDerived_Inh_FAH16to70	4.35E-06
1817	ALL	353315.5	3793135	4.35E-06	6.5YrCancerDerived_Inh_FAH16to70	4.35E-06
2	ALL	353798.1	3792493	4.35E-06	6.5YrCancerDerived_Inh_FAH16to70	4.35E-06
231	ALL	354098.1	3792668	4.35E-06	6.5YrCancerDerived_Inh_FAH16to70	4.35E-06
1132	ALL	353665.5	3792535	4.34E-06	6.5YrCancerDerived_Inh_FAH16to70	4.34E-06
1585	ALL	353390.5	3792935	4.33E-06	6.5YrCancerDerived_Inh_FAH16to70	4.33E-06
134	ALL	353998.1	3792593	4.33E-06	6.5YrCancerDerived_Inh_FAH16to70	4.33E-06
1357	ALL	353490.5	3792735	4.32E-06	6.5YrCancerDerived_Inh_FAH16to70	4.32E-06
552	ALL	354373.1	3792918	4.32E-06	6.5YrCancerDerived_Inh_FAH16to70	4.32E-06
296	ALL	354173.1	3792718	4.32E-06	6.5YrCancerDerived_Inh_FAH16to70	4.32E-06
777	ALL	354523.1	3793093	4.32E-06	6.5YrCancerDerived_Inh_FAH16to70	4.32E-06
36	ALL	353873.1	3792518	4.32E-06	6.5YrCancerDerived_Inh_FAH16to70	4.32E-06
616	ALL	354423.1	3792968	4.31E-06	6.5YrCancerDerived_Inh_FAH16to70	4.31E-06
1272	ALL	353540.5	3792660	4.31E-06	6.5YrCancerDerived_Inh_FAH16to70	4.31E-06
1787	ALL	353315.5	3793110	4.30E-06	6.5YrCancerDerived_Inh_FAH16to70	4.30E-06
584	ALL	354398.1	3792943	4.30E-06	6.5YrCancerDerived_Inh_FAH16to70	4.30E-06
199	ALL	354073.1	3792643	4.29E-06	6.5YrCancerDerived_Inh_FAH16to70	4.29E-06
1876	ALL	353290.5	3793185	4.29E-06	6.5YrCancerDerived_Inh_FAH16to70	4.29E-06
69	ALL	353923.1	3792543	4.28E-06	6.5YrCancerDerived_Inh_FAH16to70	4.28E-06
648	ALL	354448.1	3792993	4.28E-06	6.5YrCancerDerived_Inh_FAH16to70	4.28E-06
264	ALL	354148.1	3792693	4.28E-06	6.5YrCancerDerived_Inh_FAH16to70	4.28E-06
1642	ALL	353365.5	3792985	4.28E-06	6.5YrCancerDerived_Inh_FAH16to70	4.28E-06
1699	ALL	353340.5	3793035	4.26E-06	6.5YrCancerDerived_Inh_FAH16to70	4.26E-06
3	ALL	353823.1	3792493	4.26E-06	6.5YrCancerDerived_Inh_FAH16to70	4.26E-06
361	ALL	354248.1	3792768	4.26E-06	6.5YrCancerDerived_Inh_FAH16to70	4.26E-06
810	ALL	354548.1	3793118	4.25E-06	6.5YrCancerDerived_Inh_FAH16to70	4.25E-06
329	ALL	354223.1	3792743	4.25E-06	6.5YrCancerDerived_Inh_FAH16to70	4.25E-06

167	ALL	354048.1	3792618	4.24E-06	6.5YrCancerDerived_Inh_FAH16to70	4.24E-06
1757	ALL	353315.5	3793085	4.23E-06	6.5YrCancerDerived_Inh_FAH16to70	4.23E-06
680	ALL	354473.1	3793018	4.23E-06	6.5YrCancerDerived_Inh_FAH16to70	4.23E-06
489	ALL	354348.1	3792868	4.23E-06	6.5YrCancerDerived_Inh_FAH16to70	4.23E-06
102	ALL	353973.1	3792568	4.23E-06	6.5YrCancerDerived_Inh_FAH16to70	4.23E-06
1499	ALL	353415.5	3792860	4.23E-06	6.5YrCancerDerived_Inh_FAH16to70	4.23E-06
393	ALL	354273.1	3792793	4.22E-06	6.5YrCancerDerived_Inh_FAH16to70	4.22E-06
1300	ALL	353515.5	3792685	4.22E-06	6.5YrCancerDerived_Inh_FAH16to70	4.22E-06
1442	ALL	353440.5	3792810	4.22E-06	6.5YrCancerDerived_Inh_FAH16to70	4.22E-06
1104	ALL	353690.5	3792510	4.21E-06	6.5YrCancerDerived_Inh_FAH16to70	4.21E-06
1556	ALL	353390.5	3792910	4.21E-06	6.5YrCancerDerived_Inh_FAH16to70	4.21E-06
232	ALL	354123.1	3792668	4.21E-06	6.5YrCancerDerived_Inh_FAH16to70	4.21E-06
297	ALL	354198.1	3792718	4.20E-06	6.5YrCancerDerived_Inh_FAH16to70	4.20E-06
712	ALL	354498.1	3793043	4.20E-06	6.5YrCancerDerived_Inh_FAH16to70	4.20E-06
1385	ALL	353465.5	3792760	4.20E-06	6.5YrCancerDerived_Inh_FAH16to70	4.20E-06
425	ALL	354298.1	3792818	4.20E-06	6.5YrCancerDerived_Inh_FAH16to70	4.20E-06
1846	ALL	353290.5	3793160	4.19E-06	6.5YrCancerDerived_Inh_FAH16to70	4.19E-06
457	ALL	354323.1	3792843	4.19E-06	6.5YrCancerDerived_Inh_FAH16to70	4.19E-06
135	ALL	354023.1	3792593	4.17E-06	6.5YrCancerDerived_Inh_FAH16to70	4.17E-06
745	ALL	354523.1	3793068	4.17E-06	6.5YrCancerDerived_Inh_FAH16to70	4.17E-06
265	ALL	354173.1	3792693	4.16E-06	6.5YrCancerDerived_Inh_FAH16to70	4.16E-06
330	ALL	354248.1	3792743	4.16E-06	6.5YrCancerDerived_Inh_FAH16to70	4.16E-06
521	ALL	354373.1	3792893	4.16E-06	6.5YrCancerDerived_Inh_FAH16to70	4.16E-06
1670	ALL	353340.5	3793010	4.16E-06	6.5YrCancerDerived_Inh_FAH16to70	4.16E-06
1613	ALL	353365.5	3792960	4.15E-06	6.5YrCancerDerived_Inh_FAH16to70	4.15E-06
37	ALL	353898.1	3792518	4.15E-06	6.5YrCancerDerived_Inh_FAH16to70	4.15E-06
585	ALL	354423.1	3792943	4.15E-06	6.5YrCancerDerived_Inh_FAH16to70	4.15E-06
200	ALL	354098.1	3792643	4.15E-06	6.5YrCancerDerived_Inh_FAH16to70	4.15E-06
1727	ALL	353315.5	3793060	4.14E-06	6.5YrCancerDerived_Inh_FAH16to70	4.14E-06
4	ALL	353848.1	3792493	4.13E-06	6.5YrCancerDerived_Inh_FAH16to70	4.13E-06
553	ALL	354398.1	3792918	4.13E-06	6.5YrCancerDerived_Inh_FAH16to70	4.13E-06
362	ALL	354273.1	3792768	4.12E-06	6.5YrCancerDerived_Inh_FAH16to70	4.12E-06
70	ALL	353948.1	3792543	4.12E-06	6.5YrCancerDerived_Inh_FAH16to70	4.12E-06
617	ALL	354448.1	3792968	4.12E-06	6.5YrCancerDerived_Inh_FAH16to70	4.12E-06
1905	ALL	353265.5	3793210	4.12E-06	6.5YrCancerDerived_Inh_FAH16to70	4.12E-06
1328	ALL	353490.5	3792710	4.12E-06	6.5YrCancerDerived_Inh_FAH16to70	4.12E-06
778	ALL	354548.1	3793093	4.11E-06	6.5YrCancerDerived_Inh_FAH16to70	4.11E-06
1187	ALL	353590.5	3792585	4.11E-06	6.5YrCancerDerived_Inh_FAH16to70	4.11E-06
298	ALL	354223.1	3792718	4.10E-06	6.5YrCancerDerived_Inh_FAH16to70	4.10E-06
1159	ALL	353615.5	3792560	4.10E-06	6.5YrCancerDerived_Inh_FAH16to70	4.10E-06
1816	ALL	353290.5	3793135	4.10E-06	6.5YrCancerDerived_Inh_FAH16to70	4.10E-06
168	ALL	354073.1	3792618	4.10E-06	6.5YrCancerDerived_Inh_FAH16to70	4.10E-06
649	ALL	354473.1	3792993	4.09E-06	6.5YrCancerDerived_Inh_FAH16to70	4.09E-06
1527	ALL	353390.5	3792885	4.09E-06	6.5YrCancerDerived_Inh_FAH16to70	4.09E-06
1215	ALL	353565.5	3792610	4.09E-06	6.5YrCancerDerived_Inh_FAH16to70	4.09E-06
1470	ALL	353415.5	3792835	4.09E-06	6.5YrCancerDerived_Inh_FAH16to70	4.09E-06
103	ALL	353998.1	3792568	4.08E-06	6.5YrCancerDerived_Inh_FAH16to70	4.08E-06

233	ALL	354148.1	3792668	4.07E-06	6.5YrCancerDerived_Inh_FAH16to70	4.07E-06
394	ALL	354298.1	3792793	4.06E-06	6.5YrCancerDerived_Inh_FAH16to70	4.06E-06
1413	ALL	353440.5	3792785	4.06E-06	6.5YrCancerDerived_Inh_FAH16to70	4.06E-06
1641	ALL	353340.5	3792985	4.06E-06	6.5YrCancerDerived_Inh_FAH16to70	4.06E-06
1584	ALL	353365.5	3792935	4.06E-06	6.5YrCancerDerived_Inh_FAH16to70	4.06E-06
299	ALL	354248.1	3792718	4.05E-06	6.5YrCancerDerived_Inh_FAH16to70	4.05E-06
1131	ALL	353640.5	3792535	4.05E-06	6.5YrCancerDerived_Inh_FAH16to70	4.05E-06
331	ALL	354273.1	3792743	4.05E-06	6.5YrCancerDerived_Inh_FAH16to70	4.05E-06
681	ALL	354498.1	3793018	4.05E-06	6.5YrCancerDerived_Inh_FAH16to70	4.05E-06
1243	ALL	353540.5	3792635	4.04E-06	6.5YrCancerDerived_Inh_FAH16to70	4.04E-06
1786	ALL	353290.5	3793110	4.04E-06	6.5YrCancerDerived_Inh_FAH16to70	4.04E-06
266	ALL	354198.1	3792693	4.04E-06	6.5YrCancerDerived_Inh_FAH16to70	4.04E-06
1875	ALL	353265.5	3793185	4.04E-06	6.5YrCancerDerived_Inh_FAH16to70	4.04E-06
426	ALL	354323.1	3792818	4.04E-06	6.5YrCancerDerived_Inh_FAH16to70	4.04E-06
136	ALL	354048.1	3792593	4.04E-06	6.5YrCancerDerived_Inh_FAH16to70	4.04E-06
458	ALL	354348.1	3792843	4.03E-06	6.5YrCancerDerived_Inh_FAH16to70	4.03E-06
1698	ALL	353315.5	3793035	4.03E-06	6.5YrCancerDerived_Inh_FAH16to70	4.03E-06
713	ALL	354523.1	3793043	4.02E-06	6.5YrCancerDerived_Inh_FAH16to70	4.02E-06
1356	ALL	353465.5	3792735	4.02E-06	6.5YrCancerDerived_Inh_FAH16to70	4.02E-06
201	ALL	354123.1	3792643	4.01E-06	6.5YrCancerDerived_Inh_FAH16to70	4.01E-06
5	ALL	353873.1	3792493	4.01E-06	6.5YrCancerDerived_Inh_FAH16to70	4.01E-06
38	ALL	353923.1	3792518	4.00E-06	6.5YrCancerDerived_Inh_FAH16to70	4.00E-06
490	ALL	354373.1	3792868	4.00E-06	6.5YrCancerDerived_Inh_FAH16to70	4.00E-06
554	ALL	354423.1	3792918	3.99E-06	6.5YrCancerDerived_Inh_FAH16to70	3.99E-06
1756	ALL	353290.5	3793085	3.99E-06	6.5YrCancerDerived_Inh_FAH16to70	3.99E-06
1271	ALL	353515.5	3792660	3.99E-06	6.5YrCancerDerived_Inh_FAH16to70	3.99E-06
71	ALL	353973.1	3792543	3.98E-06	6.5YrCancerDerived_Inh_FAH16to70	3.98E-06
746	ALL	354548.1	3793068	3.98E-06	6.5YrCancerDerived_Inh_FAH16to70	3.98E-06
363	ALL	354298.1	3792768	3.98E-06	6.5YrCancerDerived_Inh_FAH16to70	3.98E-06
522	ALL	354398.1	3792893	3.97E-06	6.5YrCancerDerived_Inh_FAH16to70	3.97E-06
1103	ALL	353665.5	3792510	3.97E-06	6.5YrCancerDerived_Inh_FAH16to70	3.97E-06
234	ALL	354173.1	3792668	3.97E-06	6.5YrCancerDerived_Inh_FAH16to70	3.97E-06
586	ALL	354448.1	3792943	3.97E-06	6.5YrCancerDerived_Inh_FAH16to70	3.97E-06
1498	ALL	353390.5	3792860	3.96E-06	6.5YrCancerDerived_Inh_FAH16to70	3.96E-06
169	ALL	354098.1	3792618	3.96E-06	6.5YrCancerDerived_Inh_FAH16to70	3.96E-06
1555	ALL	353365.5	3792910	3.96E-06	6.5YrCancerDerived_Inh_FAH16to70	3.96E-06
1845	ALL	353265.5	3793160	3.95E-06	6.5YrCancerDerived_Inh_FAH16to70	3.95E-06
104	ALL	354023.1	3792568	3.95E-06	6.5YrCancerDerived_Inh_FAH16to70	3.95E-06
618	ALL	354473.1	3792968	3.95E-06	6.5YrCancerDerived_Inh_FAH16to70	3.95E-06
1441	ALL	353415.5	3792810	3.94E-06	6.5YrCancerDerived_Inh_FAH16to70	3.94E-06
1612	ALL	353340.5	3792960	3.93E-06	6.5YrCancerDerived_Inh_FAH16to70	3.93E-06
267	ALL	354223.1	3792693	3.93E-06	6.5YrCancerDerived_Inh_FAH16to70	3.93E-06
1669	ALL	353315.5	3793010	3.92E-06	6.5YrCancerDerived_Inh_FAH16to70	3.92E-06
300	ALL	354273.1	3792718	3.92E-06	6.5YrCancerDerived_Inh_FAH16to70	3.92E-06
650	ALL	354498.1	3792993	3.92E-06	6.5YrCancerDerived_Inh_FAH16to70	3.92E-06
1299	ALL	353490.5	3792685	3.91E-06	6.5YrCancerDerived_Inh_FAH16to70	3.91E-06
395	ALL	354323.1	3792793	3.91E-06	6.5YrCancerDerived_Inh_FAH16to70	3.91E-06

137	ALL	354073.1	3792593	3.91E-06	6.5YrCancerDerived_Inh_FAH16to70	3.91E-06
332	ALL	354298.1	3792743	3.91E-06	6.5YrCancerDerived_Inh_FAH16to70	3.91E-06
1384	ALL	353440.5	3792760	3.90E-06	6.5YrCancerDerived_Inh_FAH16to70	3.90E-06
1726	ALL	353290.5	3793060	3.90E-06	6.5YrCancerDerived_Inh_FAH16to70	3.90E-06
1904	ALL	353240.5	3793210	3.89E-06	6.5YrCancerDerived_Inh_FAH16to70	3.89E-06
427	ALL	354348.1	3792818	3.88E-06	6.5YrCancerDerived_Inh_FAH16to70	3.88E-06
6	ALL	353898.1	3792493	3.88E-06	6.5YrCancerDerived_Inh_FAH16to70	3.88E-06
202	ALL	354148.1	3792643	3.88E-06	6.5YrCancerDerived_Inh_FAH16to70	3.88E-06
682	ALL	354523.1	3793018	3.88E-06	6.5YrCancerDerived_Inh_FAH16to70	3.88E-06
39	ALL	353948.1	3792518	3.88E-06	6.5YrCancerDerived_Inh_FAH16to70	3.88E-06
1815	ALL	353265.5	3793135	3.86E-06	6.5YrCancerDerived_Inh_FAH16to70	3.86E-06
459	ALL	354373.1	3792843	3.86E-06	6.5YrCancerDerived_Inh_FAH16to70	3.86E-06
72	ALL	353998.1	3792543	3.86E-06	6.5YrCancerDerived_Inh_FAH16to70	3.86E-06
714	ALL	354548.1	3793043	3.85E-06	6.5YrCancerDerived_Inh_FAH16to70	3.85E-06
1526	ALL	353365.5	3792885	3.84E-06	6.5YrCancerDerived_Inh_FAH16to70	3.84E-06
268	ALL	354248.1	3792693	3.84E-06	6.5YrCancerDerived_Inh_FAH16to70	3.84E-06
523	ALL	354423.1	3792893	3.84E-06	6.5YrCancerDerived_Inh_FAH16to70	3.84E-06
235	ALL	354198.1	3792668	3.84E-06	6.5YrCancerDerived_Inh_FAH16to70	3.84E-06
1327	ALL	353465.5	3792710	3.84E-06	6.5YrCancerDerived_Inh_FAH16to70	3.84E-06
1469	ALL	353390.5	3792835	3.84E-06	6.5YrCancerDerived_Inh_FAH16to70	3.84E-06
170	ALL	354123.1	3792618	3.83E-06	6.5YrCancerDerived_Inh_FAH16to70	3.83E-06
491	ALL	354398.1	3792868	3.83E-06	6.5YrCancerDerived_Inh_FAH16to70	3.83E-06
364	ALL	354323.1	3792768	3.83E-06	6.5YrCancerDerived_Inh_FAH16to70	3.83E-06
105	ALL	354048.1	3792568	3.83E-06	6.5YrCancerDerived_Inh_FAH16to70	3.83E-06
1640	ALL	353315.5	3792985	3.83E-06	6.5YrCancerDerived_Inh_FAH16to70	3.83E-06
1186	ALL	353565.5	3792585	3.82E-06	6.5YrCancerDerived_Inh_FAH16to70	3.82E-06
1158	ALL	353590.5	3792560	3.82E-06	6.5YrCancerDerived_Inh_FAH16to70	3.82E-06
555	ALL	354448.1	3792918	3.82E-06	6.5YrCancerDerived_Inh_FAH16to70	3.82E-06
1583	ALL	353340.5	3792935	3.81E-06	6.5YrCancerDerived_Inh_FAH16to70	3.81E-06
1874	ALL	353240.5	3793185	3.81E-06	6.5YrCancerDerived_Inh_FAH16to70	3.81E-06
1785	ALL	353265.5	3793110	3.81E-06	6.5YrCancerDerived_Inh_FAH16to70	3.81E-06
1214	ALL	353540.5	3792610	3.80E-06	6.5YrCancerDerived_Inh_FAH16to70	3.80E-06
587	ALL	354473.1	3792943	3.80E-06	6.5YrCancerDerived_Inh_FAH16to70	3.80E-06
1697	ALL	353290.5	3793035	3.80E-06	6.5YrCancerDerived_Inh_FAH16to70	3.80E-06
1130	ALL	353615.5	3792535	3.80E-06	6.5YrCancerDerived_Inh_FAH16to70	3.80E-06
1412	ALL	353415.5	3792785	3.79E-06	6.5YrCancerDerived_Inh_FAH16to70	3.79E-06
138	ALL	354098.1	3792593	3.79E-06	6.5YrCancerDerived_Inh_FAH16to70	3.79E-06
619	ALL	354498.1	3792968	3.78E-06	6.5YrCancerDerived_Inh_FAH16to70	3.78E-06
1242	ALL	353515.5	3792635	3.77E-06	6.5YrCancerDerived_Inh_FAH16to70	3.77E-06
301	ALL	354298.1	3792718	3.77E-06	6.5YrCancerDerived_Inh_FAH16to70	3.77E-06
333	ALL	354323.1	3792743	3.77E-06	6.5YrCancerDerived_Inh_FAH16to70	3.77E-06
396	ALL	354348.1	3792793	3.76E-06	6.5YrCancerDerived_Inh_FAH16to70	3.76E-06
7	ALL	353923.1	3792493	3.76E-06	6.5YrCancerDerived_Inh_FAH16to70	3.76E-06
651	ALL	354523.1	3792993	3.76E-06	6.5YrCancerDerived_Inh_FAH16to70	3.76E-06
40	ALL	353973.1	3792518	3.76E-06	6.5YrCancerDerived_Inh_FAH16to70	3.76E-06
203	ALL	354173.1	3792643	3.76E-06	6.5YrCancerDerived_Inh_FAH16to70	3.76E-06
1755	ALL	353265.5	3793085	3.76E-06	6.5YrCancerDerived_Inh_FAH16to70	3.76E-06

1355	ALL	353440.5	3792735	3.75E-06	6.5YrCancerDerived_Inh_FAH16to70	3.75E-06
1102	ALL	353640.5	3792510	3.75E-06	6.5YrCancerDerived_Inh_FAH16to70	3.75E-06
269	ALL	354273.1	3792693	3.74E-06	6.5YrCancerDerived_Inh_FAH16to70	3.74E-06
73	ALL	354023.1	3792543	3.74E-06	6.5YrCancerDerived_Inh_FAH16to70	3.74E-06
1611	ALL	353315.5	3792960	3.74E-06	6.5YrCancerDerived_Inh_FAH16to70	3.74E-06
1844	ALL	353240.5	3793160	3.73E-06	6.5YrCancerDerived_Inh_FAH16to70	3.73E-06
1497	ALL	353365.5	3792860	3.73E-06	6.5YrCancerDerived_Inh_FAH16to70	3.73E-06
236	ALL	354223.1	3792668	3.73E-06	6.5YrCancerDerived_Inh_FAH16to70	3.73E-06
428	ALL	354373.1	3792818	3.72E-06	6.5YrCancerDerived_Inh_FAH16to70	3.72E-06
1270	ALL	353490.5	3792660	3.72E-06	6.5YrCancerDerived_Inh_FAH16to70	3.72E-06
106	ALL	354073.1	3792568	3.71E-06	6.5YrCancerDerived_Inh_FAH16to70	3.71E-06
1554	ALL	353340.5	3792910	3.71E-06	6.5YrCancerDerived_Inh_FAH16to70	3.71E-06
171	ALL	354148.1	3792618	3.71E-06	6.5YrCancerDerived_Inh_FAH16to70	3.71E-06
1668	ALL	353290.5	3793010	3.70E-06	6.5YrCancerDerived_Inh_FAH16to70	3.70E-06
1440	ALL	353390.5	3792810	3.70E-06	6.5YrCancerDerived_Inh_FAH16to70	3.70E-06
460	ALL	354398.1	3792843	3.69E-06	6.5YrCancerDerived_Inh_FAH16to70	3.69E-06
492	ALL	354423.1	3792868	3.69E-06	6.5YrCancerDerived_Inh_FAH16to70	3.69E-06
1903	ALL	353215.5	3793210	3.68E-06	6.5YrCancerDerived_Inh_FAH16to70	3.68E-06
1725	ALL	353265.5	3793060	3.68E-06	6.5YrCancerDerived_Inh_FAH16to70	3.68E-06
524	ALL	354448.1	3792893	3.68E-06	6.5YrCancerDerived_Inh_FAH16to70	3.68E-06
139	ALL	354123.1	3792593	3.67E-06	6.5YrCancerDerived_Inh_FAH16to70	3.67E-06
556	ALL	354473.1	3792918	3.66E-06	6.5YrCancerDerived_Inh_FAH16to70	3.66E-06
1298	ALL	353465.5	3792685	3.66E-06	6.5YrCancerDerived_Inh_FAH16to70	3.66E-06
365	ALL	354348.1	3792768	3.66E-06	6.5YrCancerDerived_Inh_FAH16to70	3.66E-06
8	ALL	353948.1	3792493	3.65E-06	6.5YrCancerDerived_Inh_FAH16to70	3.65E-06
1814	ALL	353240.5	3793135	3.65E-06	6.5YrCancerDerived_Inh_FAH16to70	3.65E-06
1383	ALL	353415.5	3792760	3.65E-06	6.5YrCancerDerived_Inh_FAH16to70	3.65E-06
41	ALL	353998.1	3792518	3.65E-06	6.5YrCancerDerived_Inh_FAH16to70	3.65E-06
302	ALL	354323.1	3792718	3.64E-06	6.5YrCancerDerived_Inh_FAH16to70	3.64E-06
588	ALL	354498.1	3792943	3.64E-06	6.5YrCancerDerived_Inh_FAH16to70	3.64E-06
204	ALL	354198.1	3792643	3.63E-06	6.5YrCancerDerived_Inh_FAH16to70	3.63E-06
620	ALL	354523.1	3792968	3.63E-06	6.5YrCancerDerived_Inh_FAH16to70	3.63E-06
74	ALL	354048.1	3792543	3.63E-06	6.5YrCancerDerived_Inh_FAH16to70	3.63E-06
1525	ALL	353340.5	3792885	3.63E-06	6.5YrCancerDerived_Inh_FAH16to70	3.63E-06
237	ALL	354248.1	3792668	3.63E-06	6.5YrCancerDerived_Inh_FAH16to70	3.63E-06
1582	ALL	353315.5	3792935	3.63E-06	6.5YrCancerDerived_Inh_FAH16to70	3.63E-06
1639	ALL	353290.5	3792985	3.61E-06	6.5YrCancerDerived_Inh_FAH16to70	3.61E-06
1873	ALL	353215.5	3793185	3.61E-06	6.5YrCancerDerived_Inh_FAH16to70	3.61E-06
1468	ALL	353365.5	3792835	3.61E-06	6.5YrCancerDerived_Inh_FAH16to70	3.61E-06
107	ALL	354098.1	3792568	3.61E-06	6.5YrCancerDerived_Inh_FAH16to70	3.61E-06
1784	ALL	353240.5	3793110	3.60E-06	6.5YrCancerDerived_Inh_FAH16to70	3.60E-06
397	ALL	354373.1	3792793	3.60E-06	6.5YrCancerDerived_Inh_FAH16to70	3.60E-06
1326	ALL	353440.5	3792710	3.60E-06	6.5YrCancerDerived_Inh_FAH16to70	3.60E-06
172	ALL	354173.1	3792618	3.60E-06	6.5YrCancerDerived_Inh_FAH16to70	3.60E-06
1696	ALL	353265.5	3793035	3.59E-06	6.5YrCancerDerived_Inh_FAH16to70	3.59E-06
1157	ALL	353565.5	3792560	3.58E-06	6.5YrCancerDerived_Inh_FAH16to70	3.58E-06
1185	ALL	353540.5	3792585	3.58E-06	6.5YrCancerDerived_Inh_FAH16to70	3.58E-06

270	ALL	354298.1	3792693	3.58E-06	6.5YrCancerDerived_Inh_FAH16to70	3.58E-06
429	ALL	354398.1	3792818	3.57E-06	6.5YrCancerDerived_Inh_FAH16to70	3.57E-06
1129	ALL	353590.5	3792535	3.57E-06	6.5YrCancerDerived_Inh_FAH16to70	3.57E-06
1411	ALL	353390.5	3792785	3.57E-06	6.5YrCancerDerived_Inh_FAH16to70	3.57E-06
461	ALL	354423.1	3792843	3.57E-06	6.5YrCancerDerived_Inh_FAH16to70	3.57E-06
334	ALL	354348.1	3792743	3.56E-06	6.5YrCancerDerived_Inh_FAH16to70	3.56E-06
1213	ALL	353515.5	3792610	3.56E-06	6.5YrCancerDerived_Inh_FAH16to70	3.56E-06
9	ALL	353973.1	3792493	3.56E-06	6.5YrCancerDerived_Inh_FAH16to70	3.56E-06
140	ALL	354148.1	3792593	3.56E-06	6.5YrCancerDerived_Inh_FAH16to70	3.56E-06
1754	ALL	353240.5	3793085	3.55E-06	6.5YrCancerDerived_Inh_FAH16to70	3.55E-06
42	ALL	354023.1	3792518	3.55E-06	6.5YrCancerDerived_Inh_FAH16to70	3.55E-06
1101	ALL	353615.5	3792510	3.54E-06	6.5YrCancerDerived_Inh_FAH16to70	3.54E-06
238	ALL	354273.1	3792668	3.54E-06	6.5YrCancerDerived_Inh_FAH16to70	3.54E-06
493	ALL	354448.1	3792868	3.54E-06	6.5YrCancerDerived_Inh_FAH16to70	3.54E-06
1843	ALL	353215.5	3793160	3.53E-06	6.5YrCancerDerived_Inh_FAH16to70	3.53E-06
1610	ALL	353290.5	3792960	3.53E-06	6.5YrCancerDerived_Inh_FAH16to70	3.53E-06
525	ALL	354473.1	3792893	3.53E-06	6.5YrCancerDerived_Inh_FAH16to70	3.53E-06
1241	ALL	353490.5	3792635	3.53E-06	6.5YrCancerDerived_Inh_FAH16to70	3.53E-06
75	ALL	354073.1	3792543	3.53E-06	6.5YrCancerDerived_Inh_FAH16to70	3.53E-06
1354	ALL	353415.5	3792735	3.52E-06	6.5YrCancerDerived_Inh_FAH16to70	3.52E-06
1496	ALL	353340.5	3792860	3.52E-06	6.5YrCancerDerived_Inh_FAH16to70	3.52E-06
205	ALL	354223.1	3792643	3.52E-06	6.5YrCancerDerived_Inh_FAH16to70	3.52E-06
557	ALL	354498.1	3792918	3.51E-06	6.5YrCancerDerived_Inh_FAH16to70	3.51E-06
1553	ALL	353315.5	3792910	3.51E-06	6.5YrCancerDerived_Inh_FAH16to70	3.51E-06
1667	ALL	353265.5	3793010	3.50E-06	6.5YrCancerDerived_Inh_FAH16to70	3.50E-06
589	ALL	354523.1	3792943	3.50E-06	6.5YrCancerDerived_Inh_FAH16to70	3.50E-06
108	ALL	354123.1	3792568	3.50E-06	6.5YrCancerDerived_Inh_FAH16to70	3.50E-06
1902	ALL	353190.5	3793210	3.49E-06	6.5YrCancerDerived_Inh_FAH16to70	3.49E-06
1439	ALL	353365.5	3792810	3.49E-06	6.5YrCancerDerived_Inh_FAH16to70	3.49E-06
1269	ALL	353465.5	3792660	3.49E-06	6.5YrCancerDerived_Inh_FAH16to70	3.49E-06
271	ALL	354323.1	3792693	3.48E-06	6.5YrCancerDerived_Inh_FAH16to70	3.48E-06
173	ALL	354198.1	3792618	3.48E-06	6.5YrCancerDerived_Inh_FAH16to70	3.48E-06
1724	ALL	353240.5	3793060	3.48E-06	6.5YrCancerDerived_Inh_FAH16to70	3.48E-06
303	ALL	354348.1	3792718	3.48E-06	6.5YrCancerDerived_Inh_FAH16to70	3.48E-06
366	ALL	354373.1	3792768	3.47E-06	6.5YrCancerDerived_Inh_FAH16to70	3.47E-06
10	ALL	353998.1	3792493	3.46E-06	6.5YrCancerDerived_Inh_FAH16to70	3.46E-06
1813	ALL	353215.5	3793135	3.46E-06	6.5YrCancerDerived_Inh_FAH16to70	3.46E-06
398	ALL	354398.1	3792793	3.46E-06	6.5YrCancerDerived_Inh_FAH16to70	3.46E-06
141	ALL	354173.1	3792593	3.45E-06	6.5YrCancerDerived_Inh_FAH16to70	3.45E-06
43	ALL	354048.1	3792518	3.45E-06	6.5YrCancerDerived_Inh_FAH16to70	3.45E-06
430	ALL	354423.1	3792818	3.45E-06	6.5YrCancerDerived_Inh_FAH16to70	3.45E-06
1581	ALL	353290.5	3792935	3.45E-06	6.5YrCancerDerived_Inh_FAH16to70	3.45E-06
1382	ALL	353390.5	3792760	3.44E-06	6.5YrCancerDerived_Inh_FAH16to70	3.44E-06
1297	ALL	353440.5	3792685	3.44E-06	6.5YrCancerDerived_Inh_FAH16to70	3.44E-06
76	ALL	354098.1	3792543	3.43E-06	6.5YrCancerDerived_Inh_FAH16to70	3.43E-06
1872	ALL	353190.5	3793185	3.43E-06	6.5YrCancerDerived_Inh_FAH16to70	3.43E-06
462	ALL	354448.1	3792843	3.42E-06	6.5YrCancerDerived_Inh_FAH16to70	3.42E-06

1638	ALL	353265.5	3792985	3.42E-06	6.5YrCancerDerived_Inh_FAH16to70	3.42E-06
206	ALL	354248.1	3792643	3.42E-06	6.5YrCancerDerived_Inh_FAH16to70	3.42E-06
1783	ALL	353215.5	3793110	3.41E-06	6.5YrCancerDerived_Inh_FAH16to70	3.41E-06
1524	ALL	353315.5	3792885	3.41E-06	6.5YrCancerDerived_Inh_FAH16to70	3.41E-06
1467	ALL	353340.5	3792835	3.41E-06	6.5YrCancerDerived_Inh_FAH16to70	3.41E-06
494	ALL	354473.1	3792868	3.40E-06	6.5YrCancerDerived_Inh_FAH16to70	3.40E-06
1695	ALL	353240.5	3793035	3.40E-06	6.5YrCancerDerived_Inh_FAH16to70	3.40E-06
239	ALL	354298.1	3792668	3.40E-06	6.5YrCancerDerived_Inh_FAH16to70	3.40E-06
526	ALL	354498.1	3792893	3.39E-06	6.5YrCancerDerived_Inh_FAH16to70	3.39E-06
109	ALL	354148.1	3792568	3.39E-06	6.5YrCancerDerived_Inh_FAH16to70	3.39E-06
1325	ALL	353415.5	3792710	3.39E-06	6.5YrCancerDerived_Inh_FAH16to70	3.39E-06
558	ALL	354523.1	3792918	3.38E-06	6.5YrCancerDerived_Inh_FAH16to70	3.38E-06
11	ALL	354023.1	3792493	3.38E-06	6.5YrCancerDerived_Inh_FAH16to70	3.38E-06
1156	ALL	353540.5	3792560	3.38E-06	6.5YrCancerDerived_Inh_FAH16to70	3.38E-06
174	ALL	354223.1	3792618	3.37E-06	6.5YrCancerDerived_Inh_FAH16to70	3.37E-06
1128	ALL	353565.5	3792535	3.37E-06	6.5YrCancerDerived_Inh_FAH16to70	3.37E-06
1184	ALL	353515.5	3792585	3.37E-06	6.5YrCancerDerived_Inh_FAH16to70	3.37E-06
335	ALL	354373.1	3792743	3.37E-06	6.5YrCancerDerived_Inh_FAH16to70	3.37E-06
1410	ALL	353365.5	3792785	3.37E-06	6.5YrCancerDerived_Inh_FAH16to70	3.37E-06
1753	ALL	353215.5	3793085	3.36E-06	6.5YrCancerDerived_Inh_FAH16to70	3.36E-06
44	ALL	354073.1	3792518	3.36E-06	6.5YrCancerDerived_Inh_FAH16to70	3.36E-06
1100	ALL	353590.5	3792510	3.36E-06	6.5YrCancerDerived_Inh_FAH16to70	3.36E-06
1842	ALL	353190.5	3793160	3.36E-06	6.5YrCancerDerived_Inh_FAH16to70	3.36E-06
142	ALL	354198.1	3792593	3.35E-06	6.5YrCancerDerived_Inh_FAH16to70	3.35E-06
1552	ALL	353290.5	3792910	3.35E-06	6.5YrCancerDerived_Inh_FAH16to70	3.35E-06
1212	ALL	353490.5	3792610	3.35E-06	6.5YrCancerDerived_Inh_FAH16to70	3.35E-06
1609	ALL	353265.5	3792960	3.34E-06	6.5YrCancerDerived_Inh_FAH16to70	3.34E-06
207	ALL	354273.1	3792643	3.34E-06	6.5YrCancerDerived_Inh_FAH16to70	3.34E-06
367	ALL	354398.1	3792768	3.34E-06	6.5YrCancerDerived_Inh_FAH16to70	3.34E-06
1495	ALL	353315.5	3792860	3.34E-06	6.5YrCancerDerived_Inh_FAH16to70	3.34E-06
272	ALL	354348.1	3792693	3.34E-06	6.5YrCancerDerived_Inh_FAH16to70	3.34E-06
399	ALL	354423.1	3792793	3.33E-06	6.5YrCancerDerived_Inh_FAH16to70	3.33E-06
77	ALL	354123.1	3792543	3.33E-06	6.5YrCancerDerived_Inh_FAH16to70	3.33E-06
1353	ALL	353390.5	3792735	3.32E-06	6.5YrCancerDerived_Inh_FAH16to70	3.32E-06
1666	ALL	353240.5	3793010	3.32E-06	6.5YrCancerDerived_Inh_FAH16to70	3.32E-06
1240	ALL	353465.5	3792635	3.32E-06	6.5YrCancerDerived_Inh_FAH16to70	3.32E-06
1901	ALL	353165.5	3793210	3.32E-06	6.5YrCancerDerived_Inh_FAH16to70	3.32E-06
431	ALL	354448.1	3792818	3.32E-06	6.5YrCancerDerived_Inh_FAH16to70	3.32E-06
240	ALL	354323.1	3792668	3.30E-06	6.5YrCancerDerived_Inh_FAH16to70	3.30E-06
1723	ALL	353215.5	3793060	3.30E-06	6.5YrCancerDerived_Inh_FAH16to70	3.30E-06
110	ALL	354173.1	3792568	3.30E-06	6.5YrCancerDerived_Inh_FAH16to70	3.30E-06
1438	ALL	353340.5	3792810	3.30E-06	6.5YrCancerDerived_Inh_FAH16to70	3.30E-06
463	ALL	354473.1	3792843	3.29E-06	6.5YrCancerDerived_Inh_FAH16to70	3.29E-06
12	ALL	354048.1	3792493	3.29E-06	6.5YrCancerDerived_Inh_FAH16to70	3.29E-06
1812	ALL	353190.5	3793135	3.29E-06	6.5YrCancerDerived_Inh_FAH16to70	3.29E-06
304	ALL	354373.1	3792718	3.29E-06	6.5YrCancerDerived_Inh_FAH16to70	3.29E-06
1268	ALL	353440.5	3792660	3.29E-06	6.5YrCancerDerived_Inh_FAH16to70	3.29E-06

495	ALL	354498.1	3792868	3.29E-06	6.5YrCancerDerived_Inh_FAH16to70	3.29E-06
45	ALL	354098.1	3792518	3.27E-06	6.5YrCancerDerived_Inh_FAH16to70	3.27E-06
527	ALL	354523.1	3792893	3.27E-06	6.5YrCancerDerived_Inh_FAH16to70	3.27E-06
175	ALL	354248.1	3792618	3.27E-06	6.5YrCancerDerived_Inh_FAH16to70	3.27E-06
1580	ALL	353265.5	3792935	3.27E-06	6.5YrCancerDerived_Inh_FAH16to70	3.27E-06
1871	ALL	353165.5	3793185	3.26E-06	6.5YrCancerDerived_Inh_FAH16to70	3.26E-06
1381	ALL	353365.5	3792760	3.25E-06	6.5YrCancerDerived_Inh_FAH16to70	3.25E-06
143	ALL	354223.1	3792593	3.25E-06	6.5YrCancerDerived_Inh_FAH16to70	3.25E-06
1296	ALL	353415.5	3792685	3.24E-06	6.5YrCancerDerived_Inh_FAH16to70	3.24E-06
1637	ALL	353240.5	3792985	3.24E-06	6.5YrCancerDerived_Inh_FAH16to70	3.24E-06
78	ALL	354148.1	3792543	3.24E-06	6.5YrCancerDerived_Inh_FAH16to70	3.24E-06
1782	ALL	353190.5	3793110	3.24E-06	6.5YrCancerDerived_Inh_FAH16to70	3.24E-06
1466	ALL	353315.5	3792835	3.24E-06	6.5YrCancerDerived_Inh_FAH16to70	3.24E-06
1523	ALL	353290.5	3792885	3.23E-06	6.5YrCancerDerived_Inh_FAH16to70	3.23E-06
1694	ALL	353215.5	3793035	3.23E-06	6.5YrCancerDerived_Inh_FAH16to70	3.23E-06
336	ALL	354398.1	3792743	3.23E-06	6.5YrCancerDerived_Inh_FAH16to70	3.23E-06
208	ALL	354298.1	3792643	3.23E-06	6.5YrCancerDerived_Inh_FAH16to70	3.23E-06
368	ALL	354423.1	3792768	3.22E-06	6.5YrCancerDerived_Inh_FAH16to70	3.22E-06
400	ALL	354448.1	3792793	3.21E-06	6.5YrCancerDerived_Inh_FAH16to70	3.21E-06
13	ALL	354073.1	3792493	3.21E-06	6.5YrCancerDerived_Inh_FAH16to70	3.21E-06
111	ALL	354198.1	3792568	3.21E-06	6.5YrCancerDerived_Inh_FAH16to70	3.21E-06
1324	ALL	353390.5	3792710	3.20E-06	6.5YrCancerDerived_Inh_FAH16to70	3.20E-06
1841	ALL	353165.5	3793160	3.20E-06	6.5YrCancerDerived_Inh_FAH16to70	3.20E-06
1752	ALL	353190.5	3793085	3.19E-06	6.5YrCancerDerived_Inh_FAH16to70	3.19E-06
1155	ALL	353515.5	3792560	3.19E-06	6.5YrCancerDerived_Inh_FAH16to70	3.19E-06
1127	ALL	353540.5	3792535	3.19E-06	6.5YrCancerDerived_Inh_FAH16to70	3.19E-06
1409	ALL	353340.5	3792785	3.19E-06	6.5YrCancerDerived_Inh_FAH16to70	3.19E-06
1551	ALL	353265.5	3792910	3.19E-06	6.5YrCancerDerived_Inh_FAH16to70	3.19E-06
46	ALL	354123.1	3792518	3.19E-06	6.5YrCancerDerived_Inh_FAH16to70	3.19E-06
432	ALL	354473.1	3792818	3.19E-06	6.5YrCancerDerived_Inh_FAH16to70	3.19E-06
1099	ALL	353565.5	3792510	3.19E-06	6.5YrCancerDerived_Inh_FAH16to70	3.19E-06
241	ALL	354348.1	3792668	3.19E-06	6.5YrCancerDerived_Inh_FAH16to70	3.19E-06
1183	ALL	353490.5	3792585	3.18E-06	6.5YrCancerDerived_Inh_FAH16to70	3.18E-06
1608	ALL	353240.5	3792960	3.17E-06	6.5YrCancerDerived_Inh_FAH16to70	3.17E-06
464	ALL	354498.1	3792843	3.17E-06	6.5YrCancerDerived_Inh_FAH16to70	3.17E-06
176	ALL	354273.1	3792618	3.17E-06	6.5YrCancerDerived_Inh_FAH16to70	3.17E-06
496	ALL	354523.1	3792868	3.17E-06	6.5YrCancerDerived_Inh_FAH16to70	3.17E-06
1211	ALL	353465.5	3792610	3.17E-06	6.5YrCancerDerived_Inh_FAH16to70	3.17E-06
1900	ALL	353140.5	3793210	3.16E-06	6.5YrCancerDerived_Inh_FAH16to70	3.16E-06
79	ALL	354173.1	3792543	3.16E-06	6.5YrCancerDerived_Inh_FAH16to70	3.16E-06
144	ALL	354248.1	3792593	3.16E-06	6.5YrCancerDerived_Inh_FAH16to70	3.16E-06
1665	ALL	353215.5	3793010	3.15E-06	6.5YrCancerDerived_Inh_FAH16to70	3.15E-06
1494	ALL	353290.5	3792860	3.14E-06	6.5YrCancerDerived_Inh_FAH16to70	3.14E-06
273	ALL	354373.1	3792693	3.14E-06	6.5YrCancerDerived_Inh_FAH16to70	3.14E-06
1352	ALL	353365.5	3792735	3.14E-06	6.5YrCancerDerived_Inh_FAH16to70	3.14E-06
1239	ALL	353440.5	3792635	3.14E-06	6.5YrCancerDerived_Inh_FAH16to70	3.14E-06
1722	ALL	353190.5	3793060	3.14E-06	6.5YrCancerDerived_Inh_FAH16to70	3.14E-06

1811	ALL	353165.5	3793135	3.14E-06	6.5YrCancerDerived_Inh_FAH16to70	3.14E-06
1437	ALL	353315.5	3792810	3.14E-06	6.5YrCancerDerived_Inh_FAH16to70	3.14E-06
14	ALL	354098.1	3792493	3.14E-06	6.5YrCancerDerived_Inh_FAH16to70	3.14E-06
209	ALL	354323.1	3792643	3.13E-06	6.5YrCancerDerived_Inh_FAH16to70	3.13E-06
337	ALL	354423.1	3792743	3.12E-06	6.5YrCancerDerived_Inh_FAH16to70	3.12E-06
305	ALL	354398.1	3792718	3.12E-06	6.5YrCancerDerived_Inh_FAH16to70	3.12E-06
112	ALL	354223.1	3792568	3.12E-06	6.5YrCancerDerived_Inh_FAH16to70	3.12E-06
369	ALL	354448.1	3792768	3.11E-06	6.5YrCancerDerived_Inh_FAH16to70	3.11E-06
1267	ALL	353415.5	3792660	3.11E-06	6.5YrCancerDerived_Inh_FAH16to70	3.11E-06
1870	ALL	353140.5	3793185	3.11E-06	6.5YrCancerDerived_Inh_FAH16to70	3.11E-06
47	ALL	354148.1	3792518	3.10E-06	6.5YrCancerDerived_Inh_FAH16to70	3.10E-06
1522	ALL	353265.5	3792885	3.10E-06	6.5YrCancerDerived_Inh_FAH16to70	3.10E-06
1579	ALL	353240.5	3792935	3.10E-06	6.5YrCancerDerived_Inh_FAH16to70	3.10E-06
1781	ALL	353165.5	3793110	3.09E-06	6.5YrCancerDerived_Inh_FAH16to70	3.09E-06
401	ALL	354473.1	3792793	3.08E-06	6.5YrCancerDerived_Inh_FAH16to70	3.08E-06
1380	ALL	353340.5	3792760	3.08E-06	6.5YrCancerDerived_Inh_FAH16to70	3.08E-06
1636	ALL	353215.5	3792985	3.08E-06	6.5YrCancerDerived_Inh_FAH16to70	3.08E-06
177	ALL	354298.1	3792618	3.08E-06	6.5YrCancerDerived_Inh_FAH16to70	3.08E-06
1693	ALL	353190.5	3793035	3.07E-06	6.5YrCancerDerived_Inh_FAH16to70	3.07E-06
1295	ALL	353390.5	3792685	3.07E-06	6.5YrCancerDerived_Inh_FAH16to70	3.07E-06
433	ALL	354498.1	3792818	3.07E-06	6.5YrCancerDerived_Inh_FAH16to70	3.07E-06
80	ALL	354198.1	3792543	3.07E-06	6.5YrCancerDerived_Inh_FAH16to70	3.07E-06
1465	ALL	353290.5	3792835	3.07E-06	6.5YrCancerDerived_Inh_FAH16to70	3.07E-06
145	ALL	354273.1	3792593	3.06E-06	6.5YrCancerDerived_Inh_FAH16to70	3.06E-06
465	ALL	354523.1	3792843	3.06E-06	6.5YrCancerDerived_Inh_FAH16to70	3.06E-06
15	ALL	354123.1	3792493	3.05E-06	6.5YrCancerDerived_Inh_FAH16to70	3.05E-06
1840	ALL	353140.5	3793160	3.05E-06	6.5YrCancerDerived_Inh_FAH16to70	3.05E-06
1751	ALL	353165.5	3793085	3.04E-06	6.5YrCancerDerived_Inh_FAH16to70	3.04E-06
210	ALL	354348.1	3792643	3.04E-06	6.5YrCancerDerived_Inh_FAH16to70	3.04E-06
1408	ALL	353315.5	3792785	3.04E-06	6.5YrCancerDerived_Inh_FAH16to70	3.04E-06
1126	ALL	353515.5	3792535	3.03E-06	6.5YrCancerDerived_Inh_FAH16to70	3.03E-06
1550	ALL	353240.5	3792910	3.03E-06	6.5YrCancerDerived_Inh_FAH16to70	3.03E-06
48	ALL	354173.1	3792518	3.03E-06	6.5YrCancerDerived_Inh_FAH16to70	3.03E-06
1154	ALL	353490.5	3792560	3.03E-06	6.5YrCancerDerived_Inh_FAH16to70	3.03E-06
1323	ALL	353365.5	3792710	3.03E-06	6.5YrCancerDerived_Inh_FAH16to70	3.03E-06
242	ALL	354373.1	3792668	3.03E-06	6.5YrCancerDerived_Inh_FAH16to70	3.03E-06
113	ALL	354248.1	3792568	3.03E-06	6.5YrCancerDerived_Inh_FAH16to70	3.03E-06
1098	ALL	353540.5	3792510	3.03E-06	6.5YrCancerDerived_Inh_FAH16to70	3.03E-06
306	ALL	354423.1	3792718	3.02E-06	6.5YrCancerDerived_Inh_FAH16to70	3.02E-06
1182	ALL	353465.5	3792585	3.02E-06	6.5YrCancerDerived_Inh_FAH16to70	3.02E-06
1899	ALL	353115.5	3793210	3.02E-06	6.5YrCancerDerived_Inh_FAH16to70	3.02E-06
1607	ALL	353215.5	3792960	3.02E-06	6.5YrCancerDerived_Inh_FAH16to70	3.02E-06
274	ALL	354398.1	3792693	3.01E-06	6.5YrCancerDerived_Inh_FAH16to70	3.01E-06
338	ALL	354448.1	3792743	3.01E-06	6.5YrCancerDerived_Inh_FAH16to70	3.01E-06
1210	ALL	353440.5	3792610	3.00E-06	6.5YrCancerDerived_Inh_FAH16to70	3.00E-06
1664	ALL	353190.5	3793010	3.00E-06	6.5YrCancerDerived_Inh_FAH16to70	3.00E-06
1810	ALL	353140.5	3793135	2.99E-06	6.5YrCancerDerived_Inh_FAH16to70	2.99E-06

178	ALL	354323.1	3792618	2.99E-06	6.5YrCancerDerived_Inh_FAH16to70	2.99E-06
370	ALL	354473.1	3792768	2.99E-06	6.5YrCancerDerived_Inh_FAH16to70	2.99E-06
1721	ALL	353165.5	3793060	2.99E-06	6.5YrCancerDerived_Inh_FAH16to70	2.99E-06
81	ALL	354223.1	3792543	2.99E-06	6.5YrCancerDerived_Inh_FAH16to70	2.99E-06
1493	ALL	353265.5	3792860	2.98E-06	6.5YrCancerDerived_Inh_FAH16to70	2.98E-06
1436	ALL	353290.5	3792810	2.98E-06	6.5YrCancerDerived_Inh_FAH16to70	2.98E-06
1238	ALL	353415.5	3792635	2.98E-06	6.5YrCancerDerived_Inh_FAH16to70	2.98E-06
146	ALL	354298.1	3792593	2.98E-06	6.5YrCancerDerived_Inh_FAH16to70	2.98E-06
1351	ALL	353340.5	3792735	2.98E-06	6.5YrCancerDerived_Inh_FAH16to70	2.98E-06
402	ALL	354498.1	3792793	2.97E-06	6.5YrCancerDerived_Inh_FAH16to70	2.97E-06
16	ALL	354148.1	3792493	2.97E-06	6.5YrCancerDerived_Inh_FAH16to70	2.97E-06
434	ALL	354523.1	3792818	2.97E-06	6.5YrCancerDerived_Inh_FAH16to70	2.97E-06
1869	ALL	353115.5	3793185	2.97E-06	6.5YrCancerDerived_Inh_FAH16to70	2.97E-06
1521	ALL	353240.5	3792885	2.96E-06	6.5YrCancerDerived_Inh_FAH16to70	2.96E-06
1266	ALL	353390.5	3792660	2.95E-06	6.5YrCancerDerived_Inh_FAH16to70	2.95E-06
49	ALL	354198.1	3792518	2.95E-06	6.5YrCancerDerived_Inh_FAH16to70	2.95E-06
1578	ALL	353215.5	3792935	2.95E-06	6.5YrCancerDerived_Inh_FAH16to70	2.95E-06
1780	ALL	353140.5	3793110	2.95E-06	6.5YrCancerDerived_Inh_FAH16to70	2.95E-06
114	ALL	354273.1	3792568	2.94E-06	6.5YrCancerDerived_Inh_FAH16to70	2.94E-06
1635	ALL	353190.5	3792985	2.94E-06	6.5YrCancerDerived_Inh_FAH16to70	2.94E-06
1379	ALL	353315.5	3792760	2.94E-06	6.5YrCancerDerived_Inh_FAH16to70	2.94E-06
1692	ALL	353165.5	3793035	2.93E-06	6.5YrCancerDerived_Inh_FAH16to70	2.93E-06
275	ALL	354423.1	3792693	2.92E-06	6.5YrCancerDerived_Inh_FAH16to70	2.92E-06
211	ALL	354373.1	3792643	2.92E-06	6.5YrCancerDerived_Inh_FAH16to70	2.92E-06
307	ALL	354448.1	3792718	2.91E-06	6.5YrCancerDerived_Inh_FAH16to70	2.91E-06
1294	ALL	353365.5	3792685	2.91E-06	6.5YrCancerDerived_Inh_FAH16to70	2.91E-06
1839	ALL	353115.5	3793160	2.91E-06	6.5YrCancerDerived_Inh_FAH16to70	2.91E-06
17	ALL	354173.1	3792493	2.91E-06	6.5YrCancerDerived_Inh_FAH16to70	2.91E-06
243	ALL	354398.1	3792668	2.91E-06	6.5YrCancerDerived_Inh_FAH16to70	2.91E-06
1464	ALL	353265.5	3792835	2.90E-06	6.5YrCancerDerived_Inh_FAH16to70	2.90E-06
82	ALL	354248.1	3792543	2.90E-06	6.5YrCancerDerived_Inh_FAH16to70	2.90E-06
179	ALL	354348.1	3792618	2.90E-06	6.5YrCancerDerived_Inh_FAH16to70	2.90E-06
339	ALL	354473.1	3792743	2.90E-06	6.5YrCancerDerived_Inh_FAH16to70	2.90E-06
1750	ALL	353140.5	3793085	2.90E-06	6.5YrCancerDerived_Inh_FAH16to70	2.90E-06
147	ALL	354323.1	3792593	2.90E-06	6.5YrCancerDerived_Inh_FAH16to70	2.90E-06
1407	ALL	353290.5	3792785	2.89E-06	6.5YrCancerDerived_Inh_FAH16to70	2.89E-06
1125	ALL	353490.5	3792535	2.88E-06	6.5YrCancerDerived_Inh_FAH16to70	2.88E-06
403	ALL	354523.1	3792793	2.88E-06	6.5YrCancerDerived_Inh_FAH16to70	2.88E-06
1898	ALL	353090.5	3793210	2.88E-06	6.5YrCancerDerived_Inh_FAH16to70	2.88E-06
1549	ALL	353215.5	3792910	2.88E-06	6.5YrCancerDerived_Inh_FAH16to70	2.88E-06
1153	ALL	353465.5	3792560	2.88E-06	6.5YrCancerDerived_Inh_FAH16to70	2.88E-06
1097	ALL	353515.5	3792510	2.88E-06	6.5YrCancerDerived_Inh_FAH16to70	2.88E-06
371	ALL	354498.1	3792768	2.88E-06	6.5YrCancerDerived_Inh_FAH16to70	2.88E-06
1322	ALL	353340.5	3792710	2.88E-06	6.5YrCancerDerived_Inh_FAH16to70	2.88E-06
1492	ALL	353240.5	3792860	2.87E-06	6.5YrCancerDerived_Inh_FAH16to70	2.87E-06
1181	ALL	353440.5	3792585	2.87E-06	6.5YrCancerDerived_Inh_FAH16to70	2.87E-06
1606	ALL	353190.5	3792960	2.87E-06	6.5YrCancerDerived_Inh_FAH16to70	2.87E-06

50	ALL	354223.1	3792518	2.87E-06	6.5YrCancerDerived_Inh_FAH16to70	2.87E-06
1663	ALL	353165.5	3793010	2.86E-06	6.5YrCancerDerived_Inh_FAH16to70	2.86E-06
1209	ALL	353415.5	3792610	2.86E-06	6.5YrCancerDerived_Inh_FAH16to70	2.86E-06
115	ALL	354298.1	3792568	2.86E-06	6.5YrCancerDerived_Inh_FAH16to70	2.86E-06
1809	ALL	353115.5	3793135	2.86E-06	6.5YrCancerDerived_Inh_FAH16to70	2.86E-06
1720	ALL	353140.5	3793060	2.84E-06	6.5YrCancerDerived_Inh_FAH16to70	2.84E-06
1350	ALL	353315.5	3792735	2.84E-06	6.5YrCancerDerived_Inh_FAH16to70	2.84E-06
18	ALL	354198.1	3792493	2.84E-06	6.5YrCancerDerived_Inh_FAH16to70	2.84E-06
1868	ALL	353090.5	3793185	2.83E-06	6.5YrCancerDerived_Inh_FAH16to70	2.83E-06
1435	ALL	353265.5	3792810	2.83E-06	6.5YrCancerDerived_Inh_FAH16to70	2.83E-06
1237	ALL	353390.5	3792635	2.83E-06	6.5YrCancerDerived_Inh_FAH16to70	2.83E-06
276	ALL	354448.1	3792693	2.82E-06	6.5YrCancerDerived_Inh_FAH16to70	2.82E-06
244	ALL	354423.1	3792668	2.82E-06	6.5YrCancerDerived_Inh_FAH16to70	2.82E-06
83	ALL	354273.1	3792543	2.82E-06	6.5YrCancerDerived_Inh_FAH16to70	2.82E-06
1520	ALL	353215.5	3792885	2.81E-06	6.5YrCancerDerived_Inh_FAH16to70	2.81E-06
1779	ALL	353115.5	3793110	2.81E-06	6.5YrCancerDerived_Inh_FAH16to70	2.81E-06
1577	ALL	353190.5	3792935	2.81E-06	6.5YrCancerDerived_Inh_FAH16to70	2.81E-06
180	ALL	354373.1	3792618	2.81E-06	6.5YrCancerDerived_Inh_FAH16to70	2.81E-06
212	ALL	354398.1	3792643	2.81E-06	6.5YrCancerDerived_Inh_FAH16to70	2.81E-06
1265	ALL	353365.5	3792660	2.80E-06	6.5YrCancerDerived_Inh_FAH16to70	2.80E-06
148	ALL	354348.1	3792593	2.80E-06	6.5YrCancerDerived_Inh_FAH16to70	2.80E-06
308	ALL	354473.1	3792718	2.80E-06	6.5YrCancerDerived_Inh_FAH16to70	2.80E-06
1634	ALL	353165.5	3792985	2.80E-06	6.5YrCancerDerived_Inh_FAH16to70	2.80E-06
1378	ALL	353290.5	3792760	2.80E-06	6.5YrCancerDerived_Inh_FAH16to70	2.80E-06
372	ALL	354523.1	3792768	2.80E-06	6.5YrCancerDerived_Inh_FAH16to70	2.80E-06
51	ALL	354248.1	3792518	2.80E-06	6.5YrCancerDerived_Inh_FAH16to70	2.80E-06
1691	ALL	353140.5	3793035	2.79E-06	6.5YrCancerDerived_Inh_FAH16to70	2.79E-06
340	ALL	354498.1	3792743	2.79E-06	6.5YrCancerDerived_Inh_FAH16to70	2.79E-06
1838	ALL	353090.5	3793160	2.78E-06	6.5YrCancerDerived_Inh_FAH16to70	2.78E-06
116	ALL	354323.1	3792568	2.78E-06	6.5YrCancerDerived_Inh_FAH16to70	2.78E-06
1293	ALL	353340.5	3792685	2.77E-06	6.5YrCancerDerived_Inh_FAH16to70	2.77E-06
19	ALL	354223.1	3792493	2.77E-06	6.5YrCancerDerived_Inh_FAH16to70	2.77E-06
1463	ALL	353240.5	3792835	2.77E-06	6.5YrCancerDerived_Inh_FAH16to70	2.77E-06
1749	ALL	353115.5	3793085	2.76E-06	6.5YrCancerDerived_Inh_FAH16to70	2.76E-06
1897	ALL	353065.5	3793210	2.76E-06	6.5YrCancerDerived_Inh_FAH16to70	2.76E-06
1406	ALL	353265.5	3792785	2.75E-06	6.5YrCancerDerived_Inh_FAH16to70	2.75E-06
1124	ALL	353465.5	3792535	2.75E-06	6.5YrCancerDerived_Inh_FAH16to70	2.75E-06
1096	ALL	353490.5	3792510	2.75E-06	6.5YrCancerDerived_Inh_FAH16to70	2.75E-06
1152	ALL	353440.5	3792560	2.75E-06	6.5YrCancerDerived_Inh_FAH16to70	2.75E-06
1548	ALL	353190.5	3792910	2.75E-06	6.5YrCancerDerived_Inh_FAH16to70	2.75E-06
1321	ALL	353315.5	3792710	2.75E-06	6.5YrCancerDerived_Inh_FAH16to70	2.75E-06
1605	ALL	353165.5	3792960	2.75E-06	6.5YrCancerDerived_Inh_FAH16to70	2.75E-06
84	ALL	354298.1	3792543	2.74E-06	6.5YrCancerDerived_Inh_FAH16to70	2.74E-06
1491	ALL	353215.5	3792860	2.74E-06	6.5YrCancerDerived_Inh_FAH16to70	2.74E-06
1180	ALL	353415.5	3792585	2.74E-06	6.5YrCancerDerived_Inh_FAH16to70	2.74E-06
1662	ALL	353140.5	3793010	2.73E-06	6.5YrCancerDerived_Inh_FAH16to70	2.73E-06
1808	ALL	353090.5	3793135	2.73E-06	6.5YrCancerDerived_Inh_FAH16to70	2.73E-06

245	ALL	354448.1	3792668	2.73E-06	6.5YrCancerDerived_Inh_FAH16to70	2.73E-06
1208	ALL	353390.5	3792610	2.72E-06	6.5YrCancerDerived_Inh_FAH16to70	2.72E-06
52	ALL	354273.1	3792518	2.72E-06	6.5YrCancerDerived_Inh_FAH16to70	2.72E-06
277	ALL	354473.1	3792693	2.72E-06	6.5YrCancerDerived_Inh_FAH16to70	2.72E-06
149	ALL	354373.1	3792593	2.72E-06	6.5YrCancerDerived_Inh_FAH16to70	2.72E-06
213	ALL	354423.1	3792643	2.72E-06	6.5YrCancerDerived_Inh_FAH16to70	2.72E-06
181	ALL	354398.1	3792618	2.72E-06	6.5YrCancerDerived_Inh_FAH16to70	2.72E-06
1719	ALL	353115.5	3793060	2.71E-06	6.5YrCancerDerived_Inh_FAH16to70	2.71E-06
1867	ALL	353065.5	3793185	2.71E-06	6.5YrCancerDerived_Inh_FAH16to70	2.71E-06
1349	ALL	353290.5	3792735	2.71E-06	6.5YrCancerDerived_Inh_FAH16to70	2.71E-06
341	ALL	354523.1	3792743	2.71E-06	6.5YrCancerDerived_Inh_FAH16to70	2.71E-06
117	ALL	354348.1	3792568	2.70E-06	6.5YrCancerDerived_Inh_FAH16to70	2.70E-06
1236	ALL	353365.5	3792635	2.70E-06	6.5YrCancerDerived_Inh_FAH16to70	2.70E-06
20	ALL	354248.1	3792493	2.70E-06	6.5YrCancerDerived_Inh_FAH16to70	2.70E-06
1778	ALL	353090.5	3793110	2.70E-06	6.5YrCancerDerived_Inh_FAH16to70	2.70E-06
309	ALL	354498.1	3792718	2.70E-06	6.5YrCancerDerived_Inh_FAH16to70	2.70E-06
1576	ALL	353165.5	3792935	2.69E-06	6.5YrCancerDerived_Inh_FAH16to70	2.69E-06
1434	ALL	353240.5	3792810	2.69E-06	6.5YrCancerDerived_Inh_FAH16to70	2.69E-06
1519	ALL	353190.5	3792885	2.68E-06	6.5YrCancerDerived_Inh_FAH16to70	2.68E-06
1633	ALL	353140.5	3792985	2.68E-06	6.5YrCancerDerived_Inh_FAH16to70	2.68E-06
1264	ALL	353340.5	3792660	2.67E-06	6.5YrCancerDerived_Inh_FAH16to70	2.67E-06
1377	ALL	353265.5	3792760	2.67E-06	6.5YrCancerDerived_Inh_FAH16to70	2.67E-06
85	ALL	354323.1	3792543	2.67E-06	6.5YrCancerDerived_Inh_FAH16to70	2.67E-06
1462	ALL	353215.5	3792835	2.67E-06	6.5YrCancerDerived_Inh_FAH16to70	2.67E-06
1690	ALL	353115.5	3793035	2.66E-06	6.5YrCancerDerived_Inh_FAH16to70	2.66E-06
1837	ALL	353065.5	3793160	2.66E-06	6.5YrCancerDerived_Inh_FAH16to70	2.66E-06
1292	ALL	353315.5	3792685	2.65E-06	6.5YrCancerDerived_Inh_FAH16to70	2.65E-06
1748	ALL	353090.5	3793085	2.65E-06	6.5YrCancerDerived_Inh_FAH16to70	2.65E-06
53	ALL	354298.1	3792518	2.65E-06	6.5YrCancerDerived_Inh_FAH16to70	2.65E-06
1896	ALL	353040.5	3793210	2.64E-06	6.5YrCancerDerived_Inh_FAH16to70	2.64E-06
150	ALL	354398.1	3792593	2.63E-06	6.5YrCancerDerived_Inh_FAH16to70	2.63E-06
246	ALL	354473.1	3792668	2.63E-06	6.5YrCancerDerived_Inh_FAH16to70	2.63E-06
1123	ALL	353440.5	3792535	2.63E-06	6.5YrCancerDerived_Inh_FAH16to70	2.63E-06
1547	ALL	353165.5	3792910	2.63E-06	6.5YrCancerDerived_Inh_FAH16to70	2.63E-06
1095	ALL	353465.5	3792510	2.63E-06	6.5YrCancerDerived_Inh_FAH16to70	2.63E-06
1151	ALL	353415.5	3792560	2.63E-06	6.5YrCancerDerived_Inh_FAH16to70	2.63E-06
21	ALL	354273.1	3792493	2.63E-06	6.5YrCancerDerived_Inh_FAH16to70	2.63E-06
214	ALL	354448.1	3792643	2.63E-06	6.5YrCancerDerived_Inh_FAH16to70	2.63E-06
1490	ALL	353190.5	3792860	2.63E-06	6.5YrCancerDerived_Inh_FAH16to70	2.63E-06
1604	ALL	353140.5	3792960	2.62E-06	6.5YrCancerDerived_Inh_FAH16to70	2.62E-06
310	ALL	354523.1	3792718	2.62E-06	6.5YrCancerDerived_Inh_FAH16to70	2.62E-06
1320	ALL	353290.5	3792710	2.62E-06	6.5YrCancerDerived_Inh_FAH16to70	2.62E-06
182	ALL	354423.1	3792618	2.62E-06	6.5YrCancerDerived_Inh_FAH16to70	2.62E-06
1405	ALL	353240.5	3792785	2.62E-06	6.5YrCancerDerived_Inh_FAH16to70	2.62E-06
118	ALL	354373.1	3792568	2.62E-06	6.5YrCancerDerived_Inh_FAH16to70	2.62E-06
1179	ALL	353390.5	3792585	2.62E-06	6.5YrCancerDerived_Inh_FAH16to70	2.62E-06
1807	ALL	353065.5	3793135	2.62E-06	6.5YrCancerDerived_Inh_FAH16to70	2.62E-06

1661	ALL	353115.5	3793010	2.61E-06	6.5YrCancerDerived_Inh_FAH16to70	2.61E-06
278	ALL	354498.1	3792693	2.61E-06	6.5YrCancerDerived_Inh_FAH16to70	2.61E-06
1718	ALL	353090.5	3793060	2.60E-06	6.5YrCancerDerived_Inh_FAH16to70	2.60E-06
1207	ALL	353365.5	3792610	2.60E-06	6.5YrCancerDerived_Inh_FAH16to70	2.60E-06
1866	ALL	353040.5	3793185	2.59E-06	6.5YrCancerDerived_Inh_FAH16to70	2.59E-06
86	ALL	354348.1	3792543	2.59E-06	6.5YrCancerDerived_Inh_FAH16to70	2.59E-06
1348	ALL	353265.5	3792735	2.59E-06	6.5YrCancerDerived_Inh_FAH16to70	2.59E-06
1777	ALL	353065.5	3793110	2.58E-06	6.5YrCancerDerived_Inh_FAH16to70	2.58E-06
1235	ALL	353340.5	3792635	2.58E-06	6.5YrCancerDerived_Inh_FAH16to70	2.58E-06
1433	ALL	353215.5	3792810	2.57E-06	6.5YrCancerDerived_Inh_FAH16to70	2.57E-06
1518	ALL	353165.5	3792885	2.57E-06	6.5YrCancerDerived_Inh_FAH16to70	2.57E-06
1575	ALL	353140.5	3792935	2.57E-06	6.5YrCancerDerived_Inh_FAH16to70	2.57E-06
54	ALL	354323.1	3792518	2.57E-06	6.5YrCancerDerived_Inh_FAH16to70	2.57E-06
1632	ALL	353115.5	3792985	2.56E-06	6.5YrCancerDerived_Inh_FAH16to70	2.56E-06
1263	ALL	353315.5	3792660	2.56E-06	6.5YrCancerDerived_Inh_FAH16to70	2.56E-06
1689	ALL	353090.5	3793035	2.56E-06	6.5YrCancerDerived_Inh_FAH16to70	2.56E-06
22	ALL	354298.1	3792493	2.56E-06	6.5YrCancerDerived_Inh_FAH16to70	2.56E-06
1461	ALL	353190.5	3792835	2.55E-06	6.5YrCancerDerived_Inh_FAH16to70	2.55E-06
1836	ALL	353040.5	3793160	2.55E-06	6.5YrCancerDerived_Inh_FAH16to70	2.55E-06
1376	ALL	353240.5	3792760	2.55E-06	6.5YrCancerDerived_Inh_FAH16to70	2.55E-06
151	ALL	354423.1	3792593	2.54E-06	6.5YrCancerDerived_Inh_FAH16to70	2.54E-06
1747	ALL	353065.5	3793085	2.54E-06	6.5YrCancerDerived_Inh_FAH16to70	2.54E-06
119	ALL	354398.1	3792568	2.54E-06	6.5YrCancerDerived_Inh_FAH16to70	2.54E-06
279	ALL	354523.1	3792693	2.54E-06	6.5YrCancerDerived_Inh_FAH16to70	2.54E-06
215	ALL	354473.1	3792643	2.54E-06	6.5YrCancerDerived_Inh_FAH16to70	2.54E-06
247	ALL	354498.1	3792668	2.54E-06	6.5YrCancerDerived_Inh_FAH16to70	2.54E-06
1291	ALL	353290.5	3792685	2.54E-06	6.5YrCancerDerived_Inh_FAH16to70	2.54E-06
183	ALL	354448.1	3792618	2.54E-06	6.5YrCancerDerived_Inh_FAH16to70	2.54E-06
1895	ALL	353015.5	3793210	2.53E-06	6.5YrCancerDerived_Inh_FAH16to70	2.53E-06
1122	ALL	353415.5	3792535	2.52E-06	6.5YrCancerDerived_Inh_FAH16to70	2.52E-06
1094	ALL	353440.5	3792510	2.52E-06	6.5YrCancerDerived_Inh_FAH16to70	2.52E-06
1546	ALL	353140.5	3792910	2.52E-06	6.5YrCancerDerived_Inh_FAH16to70	2.52E-06
1150	ALL	353390.5	3792560	2.52E-06	6.5YrCancerDerived_Inh_FAH16to70	2.52E-06
87	ALL	354373.1	3792543	2.52E-06	6.5YrCancerDerived_Inh_FAH16to70	2.52E-06
1489	ALL	353165.5	3792860	2.51E-06	6.5YrCancerDerived_Inh_FAH16to70	2.51E-06
1603	ALL	353115.5	3792960	2.51E-06	6.5YrCancerDerived_Inh_FAH16to70	2.51E-06
1806	ALL	353040.5	3793135	2.51E-06	6.5YrCancerDerived_Inh_FAH16to70	2.51E-06
1319	ALL	353265.5	3792710	2.51E-06	6.5YrCancerDerived_Inh_FAH16to70	2.51E-06
1660	ALL	353090.5	3793010	2.51E-06	6.5YrCancerDerived_Inh_FAH16to70	2.51E-06
1178	ALL	353365.5	3792585	2.50E-06	6.5YrCancerDerived_Inh_FAH16to70	2.50E-06
1717	ALL	353065.5	3793060	2.50E-06	6.5YrCancerDerived_Inh_FAH16to70	2.50E-06
1404	ALL	353215.5	3792785	2.50E-06	6.5YrCancerDerived_Inh_FAH16to70	2.50E-06
55	ALL	354348.1	3792518	2.50E-06	6.5YrCancerDerived_Inh_FAH16to70	2.50E-06
1206	ALL	353340.5	3792610	2.49E-06	6.5YrCancerDerived_Inh_FAH16to70	2.49E-06
1865	ALL	353015.5	3793185	2.49E-06	6.5YrCancerDerived_Inh_FAH16to70	2.49E-06
23	ALL	354323.1	3792493	2.48E-06	6.5YrCancerDerived_Inh_FAH16to70	2.48E-06
1432	ALL	353190.5	3792810	2.48E-06	6.5YrCancerDerived_Inh_FAH16to70	2.48E-06

1347	ALL	353240.5	3792735	2.48E-06	6.5YrCancerDerived_Inh_FAH16to70	2.48E-06
1776	ALL	353040.5	3793110	2.48E-06	6.5YrCancerDerived_Inh_FAH16to70	2.48E-06
1234	ALL	353315.5	3792635	2.47E-06	6.5YrCancerDerived_Inh_FAH16to70	2.47E-06
152	ALL	354448.1	3792593	2.47E-06	6.5YrCancerDerived_Inh_FAH16to70	2.47E-06
1517	ALL	353140.5	3792885	2.47E-06	6.5YrCancerDerived_Inh_FAH16to70	2.47E-06
120	ALL	354423.1	3792568	2.47E-06	6.5YrCancerDerived_Inh_FAH16to70	2.47E-06
248	ALL	354523.1	3792668	2.47E-06	6.5YrCancerDerived_Inh_FAH16to70	2.47E-06
1574	ALL	353115.5	3792935	2.46E-06	6.5YrCancerDerived_Inh_FAH16to70	2.46E-06
216	ALL	354498.1	3792643	2.46E-06	6.5YrCancerDerived_Inh_FAH16to70	2.46E-06
1688	ALL	353065.5	3793035	2.45E-06	6.5YrCancerDerived_Inh_FAH16to70	2.45E-06
1631	ALL	353090.5	3792985	2.45E-06	6.5YrCancerDerived_Inh_FAH16to70	2.45E-06
184	ALL	354473.1	3792618	2.45E-06	6.5YrCancerDerived_Inh_FAH16to70	2.45E-06
1262	ALL	353290.5	3792660	2.45E-06	6.5YrCancerDerived_Inh_FAH16to70	2.45E-06
1835	ALL	353015.5	3793160	2.45E-06	6.5YrCancerDerived_Inh_FAH16to70	2.45E-06
88	ALL	354398.1	3792543	2.44E-06	6.5YrCancerDerived_Inh_FAH16to70	2.44E-06
1460	ALL	353165.5	3792835	2.44E-06	6.5YrCancerDerived_Inh_FAH16to70	2.44E-06
1746	ALL	353040.5	3793085	2.44E-06	6.5YrCancerDerived_Inh_FAH16to70	2.44E-06
1375	ALL	353215.5	3792760	2.44E-06	6.5YrCancerDerived_Inh_FAH16to70	2.44E-06
1290	ALL	353265.5	3792685	2.43E-06	6.5YrCancerDerived_Inh_FAH16to70	2.43E-06
56	ALL	354373.1	3792518	2.43E-06	6.5YrCancerDerived_Inh_FAH16to70	2.43E-06
1093	ALL	353415.5	3792510	2.42E-06	6.5YrCancerDerived_Inh_FAH16to70	2.42E-06
1121	ALL	353390.5	3792535	2.42E-06	6.5YrCancerDerived_Inh_FAH16to70	2.42E-06
1545	ALL	353115.5	3792910	2.41E-06	6.5YrCancerDerived_Inh_FAH16to70	2.41E-06
1403	ALL	353190.5	3792785	2.41E-06	6.5YrCancerDerived_Inh_FAH16to70	2.41E-06
1149	ALL	353365.5	3792560	2.41E-06	6.5YrCancerDerived_Inh_FAH16to70	2.41E-06
24	ALL	354348.1	3792493	2.41E-06	6.5YrCancerDerived_Inh_FAH16to70	2.41E-06
1602	ALL	353090.5	3792960	2.41E-06	6.5YrCancerDerived_Inh_FAH16to70	2.41E-06
1805	ALL	353015.5	3793135	2.41E-06	6.5YrCancerDerived_Inh_FAH16to70	2.41E-06
1488	ALL	353140.5	3792860	2.41E-06	6.5YrCancerDerived_Inh_FAH16to70	2.41E-06
1659	ALL	353065.5	3793010	2.40E-06	6.5YrCancerDerived_Inh_FAH16to70	2.40E-06
1318	ALL	353240.5	3792710	2.40E-06	6.5YrCancerDerived_Inh_FAH16to70	2.40E-06
1177	ALL	353340.5	3792585	2.40E-06	6.5YrCancerDerived_Inh_FAH16to70	2.40E-06
1716	ALL	353040.5	3793060	2.40E-06	6.5YrCancerDerived_Inh_FAH16to70	2.40E-06
121	ALL	354448.1	3792568	2.40E-06	6.5YrCancerDerived_Inh_FAH16to70	2.40E-06
1205	ALL	353315.5	3792610	2.39E-06	6.5YrCancerDerived_Inh_FAH16to70	2.39E-06
217	ALL	354523.1	3792643	2.39E-06	6.5YrCancerDerived_Inh_FAH16to70	2.39E-06
153	ALL	354473.1	3792593	2.38E-06	6.5YrCancerDerived_Inh_FAH16to70	2.38E-06
1431	ALL	353165.5	3792810	2.38E-06	6.5YrCancerDerived_Inh_FAH16to70	2.38E-06
185	ALL	354498.1	3792618	2.38E-06	6.5YrCancerDerived_Inh_FAH16to70	2.38E-06
1775	ALL	353015.5	3793110	2.38E-06	6.5YrCancerDerived_Inh_FAH16to70	2.38E-06
89	ALL	354423.1	3792543	2.37E-06	6.5YrCancerDerived_Inh_FAH16to70	2.37E-06
1233	ALL	353290.5	3792635	2.37E-06	6.5YrCancerDerived_Inh_FAH16to70	2.37E-06
57	ALL	354398.1	3792518	2.36E-06	6.5YrCancerDerived_Inh_FAH16to70	2.36E-06
1346	ALL	353215.5	3792735	2.36E-06	6.5YrCancerDerived_Inh_FAH16to70	2.36E-06
1516	ALL	353115.5	3792885	2.36E-06	6.5YrCancerDerived_Inh_FAH16to70	2.36E-06
1573	ALL	353090.5	3792935	2.36E-06	6.5YrCancerDerived_Inh_FAH16to70	2.36E-06
1687	ALL	353040.5	3793035	2.35E-06	6.5YrCancerDerived_Inh_FAH16to70	2.35E-06

25	ALL	354373.1	3792493	2.35E-06	6.5YrCancerDerived_Inh_FAH16to70	2.35E-06
1630	ALL	353065.5	3792985	2.35E-06	6.5YrCancerDerived_Inh_FAH16to70	2.35E-06
1261	ALL	353265.5	3792660	2.35E-06	6.5YrCancerDerived_Inh_FAH16to70	2.35E-06
1459	ALL	353140.5	3792835	2.34E-06	6.5YrCancerDerived_Inh_FAH16to70	2.34E-06
1745	ALL	353015.5	3793085	2.34E-06	6.5YrCancerDerived_Inh_FAH16to70	2.34E-06
1374	ALL	353190.5	3792760	2.34E-06	6.5YrCancerDerived_Inh_FAH16to70	2.34E-06
1289	ALL	353240.5	3792685	2.33E-06	6.5YrCancerDerived_Inh_FAH16to70	2.33E-06
1092	ALL	353390.5	3792510	2.33E-06	6.5YrCancerDerived_Inh_FAH16to70	2.33E-06
1120	ALL	353365.5	3792535	2.32E-06	6.5YrCancerDerived_Inh_FAH16to70	2.32E-06
1402	ALL	353165.5	3792785	2.32E-06	6.5YrCancerDerived_Inh_FAH16to70	2.32E-06
1148	ALL	353340.5	3792560	2.32E-06	6.5YrCancerDerived_Inh_FAH16to70	2.32E-06
122	ALL	354473.1	3792568	2.31E-06	6.5YrCancerDerived_Inh_FAH16to70	2.31E-06
154	ALL	354498.1	3792593	2.31E-06	6.5YrCancerDerived_Inh_FAH16to70	2.31E-06
1544	ALL	353090.5	3792910	2.31E-06	6.5YrCancerDerived_Inh_FAH16to70	2.31E-06
1176	ALL	353315.5	3792585	2.31E-06	6.5YrCancerDerived_Inh_FAH16to70	2.31E-06
90	ALL	354448.1	3792543	2.31E-06	6.5YrCancerDerived_Inh_FAH16to70	2.31E-06
1601	ALL	353065.5	3792960	2.31E-06	6.5YrCancerDerived_Inh_FAH16to70	2.31E-06
186	ALL	354523.1	3792618	2.31E-06	6.5YrCancerDerived_Inh_FAH16to70	2.31E-06
1658	ALL	353040.5	3793010	2.31E-06	6.5YrCancerDerived_Inh_FAH16to70	2.31E-06
1715	ALL	353015.5	3793060	2.30E-06	6.5YrCancerDerived_Inh_FAH16to70	2.30E-06
1487	ALL	353115.5	3792860	2.30E-06	6.5YrCancerDerived_Inh_FAH16to70	2.30E-06
58	ALL	354423.1	3792518	2.30E-06	6.5YrCancerDerived_Inh_FAH16to70	2.30E-06
1204	ALL	353290.5	3792610	2.30E-06	6.5YrCancerDerived_Inh_FAH16to70	2.30E-06
1317	ALL	353215.5	3792710	2.29E-06	6.5YrCancerDerived_Inh_FAH16to70	2.29E-06
26	ALL	354398.1	3792493	2.29E-06	6.5YrCancerDerived_Inh_FAH16to70	2.29E-06
1430	ALL	353140.5	3792810	2.28E-06	6.5YrCancerDerived_Inh_FAH16to70	2.28E-06
1232	ALL	353265.5	3792635	2.27E-06	6.5YrCancerDerived_Inh_FAH16to70	2.27E-06
1686	ALL	353015.5	3793035	2.26E-06	6.5YrCancerDerived_Inh_FAH16to70	2.26E-06
1572	ALL	353065.5	3792935	2.26E-06	6.5YrCancerDerived_Inh_FAH16to70	2.26E-06
1515	ALL	353090.5	3792885	2.26E-06	6.5YrCancerDerived_Inh_FAH16to70	2.26E-06
1629	ALL	353040.5	3792985	2.26E-06	6.5YrCancerDerived_Inh_FAH16to70	2.26E-06
1260	ALL	353240.5	3792660	2.26E-06	6.5YrCancerDerived_Inh_FAH16to70	2.26E-06
1373	ALL	353165.5	3792760	2.25E-06	6.5YrCancerDerived_Inh_FAH16to70	2.25E-06
1345	ALL	353190.5	3792735	2.25E-06	6.5YrCancerDerived_Inh_FAH16to70	2.25E-06
1458	ALL	353115.5	3792835	2.25E-06	6.5YrCancerDerived_Inh_FAH16to70	2.25E-06
91	ALL	354473.1	3792543	2.24E-06	6.5YrCancerDerived_Inh_FAH16to70	2.24E-06
155	ALL	354523.1	3792593	2.24E-06	6.5YrCancerDerived_Inh_FAH16to70	2.24E-06
123	ALL	354498.1	3792568	2.24E-06	6.5YrCancerDerived_Inh_FAH16to70	2.24E-06
1091	ALL	353365.5	3792510	2.24E-06	6.5YrCancerDerived_Inh_FAH16to70	2.24E-06
59	ALL	354448.1	3792518	2.24E-06	6.5YrCancerDerived_Inh_FAH16to70	2.24E-06
1119	ALL	353340.5	3792535	2.23E-06	6.5YrCancerDerived_Inh_FAH16to70	2.23E-06
1147	ALL	353315.5	3792560	2.23E-06	6.5YrCancerDerived_Inh_FAH16to70	2.23E-06
27	ALL	354423.1	3792493	2.23E-06	6.5YrCancerDerived_Inh_FAH16to70	2.23E-06
1288	ALL	353215.5	3792685	2.23E-06	6.5YrCancerDerived_Inh_FAH16to70	2.23E-06
1401	ALL	353140.5	3792785	2.23E-06	6.5YrCancerDerived_Inh_FAH16to70	2.23E-06
1175	ALL	353290.5	3792585	2.22E-06	6.5YrCancerDerived_Inh_FAH16to70	2.22E-06
1600	ALL	353040.5	3792960	2.22E-06	6.5YrCancerDerived_Inh_FAH16to70	2.22E-06

1657	ALL	353015.5	3793010	2.22E-06	6.5YrCancerDerived_Inh_FAH16to70	2.22E-06
1543	ALL	353065.5	3792910	2.22E-06	6.5YrCancerDerived_Inh_FAH16to70	2.22E-06
1486	ALL	353090.5	3792860	2.21E-06	6.5YrCancerDerived_Inh_FAH16to70	2.21E-06
1203	ALL	353265.5	3792610	2.21E-06	6.5YrCancerDerived_Inh_FAH16to70	2.21E-06
1429	ALL	353115.5	3792810	2.19E-06	6.5YrCancerDerived_Inh_FAH16to70	2.19E-06
1344	ALL	353165.5	3792735	2.19E-06	6.5YrCancerDerived_Inh_FAH16to70	2.19E-06
1231	ALL	353240.5	3792635	2.19E-06	6.5YrCancerDerived_Inh_FAH16to70	2.19E-06
1316	ALL	353190.5	3792710	2.19E-06	6.5YrCancerDerived_Inh_FAH16to70	2.19E-06
1571	ALL	353040.5	3792935	2.18E-06	6.5YrCancerDerived_Inh_FAH16to70	2.18E-06
124	ALL	354523.1	3792568	2.18E-06	6.5YrCancerDerived_Inh_FAH16to70	2.18E-06
60	ALL	354473.1	3792518	2.18E-06	6.5YrCancerDerived_Inh_FAH16to70	2.18E-06
92	ALL	354498.1	3792543	2.18E-06	6.5YrCancerDerived_Inh_FAH16to70	2.18E-06
28	ALL	354448.1	3792493	2.17E-06	6.5YrCancerDerived_Inh_FAH16to70	2.17E-06
1628	ALL	353015.5	3792985	2.17E-06	6.5YrCancerDerived_Inh_FAH16to70	2.17E-06
1259	ALL	353215.5	3792660	2.17E-06	6.5YrCancerDerived_Inh_FAH16to70	2.17E-06
1514	ALL	353065.5	3792885	2.17E-06	6.5YrCancerDerived_Inh_FAH16to70	2.17E-06
1372	ALL	353140.5	3792760	2.17E-06	6.5YrCancerDerived_Inh_FAH16to70	2.17E-06
1457	ALL	353090.5	3792835	2.16E-06	6.5YrCancerDerived_Inh_FAH16to70	2.16E-06
1118	ALL	353315.5	3792535	2.16E-06	6.5YrCancerDerived_Inh_FAH16to70	2.16E-06
1090	ALL	353340.5	3792510	2.16E-06	6.5YrCancerDerived_Inh_FAH16to70	2.16E-06
1146	ALL	353290.5	3792560	2.15E-06	6.5YrCancerDerived_Inh_FAH16to70	2.15E-06
1174	ALL	353265.5	3792585	2.14E-06	6.5YrCancerDerived_Inh_FAH16to70	2.14E-06
1400	ALL	353115.5	3792785	2.14E-06	6.5YrCancerDerived_Inh_FAH16to70	2.14E-06
1542	ALL	353040.5	3792910	2.14E-06	6.5YrCancerDerived_Inh_FAH16to70	2.14E-06
1599	ALL	353015.5	3792960	2.14E-06	6.5YrCancerDerived_Inh_FAH16to70	2.14E-06
1287	ALL	353190.5	3792685	2.14E-06	6.5YrCancerDerived_Inh_FAH16to70	2.14E-06
1315	ALL	353165.5	3792710	2.13E-06	6.5YrCancerDerived_Inh_FAH16to70	2.13E-06
1202	ALL	353240.5	3792610	2.12E-06	6.5YrCancerDerived_Inh_FAH16to70	2.12E-06
93	ALL	354523.1	3792543	2.12E-06	6.5YrCancerDerived_Inh_FAH16to70	2.12E-06
1485	ALL	353065.5	3792860	2.12E-06	6.5YrCancerDerived_Inh_FAH16to70	2.12E-06
61	ALL	354498.1	3792518	2.12E-06	6.5YrCancerDerived_Inh_FAH16to70	2.12E-06
29	ALL	354473.1	3792493	2.12E-06	6.5YrCancerDerived_Inh_FAH16to70	2.12E-06
1428	ALL	353090.5	3792810	2.11E-06	6.5YrCancerDerived_Inh_FAH16to70	2.11E-06
1230	ALL	353215.5	3792635	2.11E-06	6.5YrCancerDerived_Inh_FAH16to70	2.11E-06
1343	ALL	353140.5	3792735	2.11E-06	6.5YrCancerDerived_Inh_FAH16to70	2.11E-06
1570	ALL	353015.5	3792935	2.10E-06	6.5YrCancerDerived_Inh_FAH16to70	2.10E-06
1513	ALL	353040.5	3792885	2.09E-06	6.5YrCancerDerived_Inh_FAH16to70	2.09E-06
1089	ALL	353315.5	3792510	2.09E-06	6.5YrCancerDerived_Inh_FAH16to70	2.09E-06
1371	ALL	353115.5	3792760	2.08E-06	6.5YrCancerDerived_Inh_FAH16to70	2.08E-06
1117	ALL	353290.5	3792535	2.08E-06	6.5YrCancerDerived_Inh_FAH16to70	2.08E-06
1258	ALL	353190.5	3792660	2.08E-06	6.5YrCancerDerived_Inh_FAH16to70	2.08E-06
1145	ALL	353265.5	3792560	2.07E-06	6.5YrCancerDerived_Inh_FAH16to70	2.07E-06
1456	ALL	353065.5	3792835	2.07E-06	6.5YrCancerDerived_Inh_FAH16to70	2.07E-06
1286	ALL	353165.5	3792685	2.07E-06	6.5YrCancerDerived_Inh_FAH16to70	2.07E-06
62	ALL	354523.1	3792518	2.06E-06	6.5YrCancerDerived_Inh_FAH16to70	2.06E-06
30	ALL	354498.1	3792493	2.06E-06	6.5YrCancerDerived_Inh_FAH16to70	2.06E-06
1541	ALL	353015.5	3792910	2.06E-06	6.5YrCancerDerived_Inh_FAH16to70	2.06E-06

1173	ALL	353240.5	3792585	2.06E-06	6.5YrCancerDerived_Inh_FAH16to70	2.06E-06
1399	ALL	353090.5	3792785	2.06E-06	6.5YrCancerDerived_Inh_FAH16to70	2.06E-06
1314	ALL	353140.5	3792710	2.05E-06	6.5YrCancerDerived_Inh_FAH16to70	2.05E-06
1484	ALL	353040.5	3792860	2.05E-06	6.5YrCancerDerived_Inh_FAH16to70	2.05E-06
1201	ALL	353215.5	3792610	2.05E-06	6.5YrCancerDerived_Inh_FAH16to70	2.05E-06
1342	ALL	353115.5	3792735	2.03E-06	6.5YrCancerDerived_Inh_FAH16to70	2.03E-06
1427	ALL	353065.5	3792810	2.02E-06	6.5YrCancerDerived_Inh_FAH16to70	2.02E-06
1229	ALL	353190.5	3792635	2.02E-06	6.5YrCancerDerived_Inh_FAH16to70	2.02E-06
1512	ALL	353015.5	3792885	2.02E-06	6.5YrCancerDerived_Inh_FAH16to70	2.02E-06
1088	ALL	353290.5	3792510	2.01E-06	6.5YrCancerDerived_Inh_FAH16to70	2.01E-06
1257	ALL	353165.5	3792660	2.01E-06	6.5YrCancerDerived_Inh_FAH16to70	2.01E-06
31	ALL	354523.1	3792493	2.01E-06	6.5YrCancerDerived_Inh_FAH16to70	2.01E-06
1116	ALL	353265.5	3792535	2.01E-06	6.5YrCancerDerived_Inh_FAH16to70	2.01E-06
1370	ALL	353090.5	3792760	2.01E-06	6.5YrCancerDerived_Inh_FAH16to70	2.01E-06
1455	ALL	353040.5	3792835	2.00E-06	6.5YrCancerDerived_Inh_FAH16to70	2.00E-06
1285	ALL	353140.5	3792685	2.00E-06	6.5YrCancerDerived_Inh_FAH16to70	2.00E-06
1144	ALL	353240.5	3792560	2.00E-06	6.5YrCancerDerived_Inh_FAH16to70	2.00E-06
1172	ALL	353215.5	3792585	1.98E-06	6.5YrCancerDerived_Inh_FAH16to70	1.98E-06
1313	ALL	353115.5	3792710	1.98E-06	6.5YrCancerDerived_Inh_FAH16to70	1.98E-06
1398	ALL	353065.5	3792785	1.98E-06	6.5YrCancerDerived_Inh_FAH16to70	1.98E-06
1483	ALL	353015.5	3792860	1.97E-06	6.5YrCancerDerived_Inh_FAH16to70	1.97E-06
1200	ALL	353190.5	3792610	1.97E-06	6.5YrCancerDerived_Inh_FAH16to70	1.97E-06
1426	ALL	353040.5	3792810	1.96E-06	6.5YrCancerDerived_Inh_FAH16to70	1.96E-06
1341	ALL	353090.5	3792735	1.96E-06	6.5YrCancerDerived_Inh_FAH16to70	1.96E-06
1228	ALL	353165.5	3792635	1.96E-06	6.5YrCancerDerived_Inh_FAH16to70	1.96E-06
1087	ALL	353265.5	3792510	1.95E-06	6.5YrCancerDerived_Inh_FAH16to70	1.95E-06
1256	ALL	353140.5	3792660	1.94E-06	6.5YrCancerDerived_Inh_FAH16to70	1.94E-06
1115	ALL	353240.5	3792535	1.94E-06	6.5YrCancerDerived_Inh_FAH16to70	1.94E-06
1284	ALL	353115.5	3792685	1.93E-06	6.5YrCancerDerived_Inh_FAH16to70	1.93E-06
1454	ALL	353015.5	3792835	1.93E-06	6.5YrCancerDerived_Inh_FAH16to70	1.93E-06
1369	ALL	353065.5	3792760	1.93E-06	6.5YrCancerDerived_Inh_FAH16to70	1.93E-06
1143	ALL	353215.5	3792560	1.93E-06	6.5YrCancerDerived_Inh_FAH16to70	1.93E-06
1312	ALL	353090.5	3792710	1.91E-06	6.5YrCancerDerived_Inh_FAH16to70	1.91E-06
1397	ALL	353040.5	3792785	1.91E-06	6.5YrCancerDerived_Inh_FAH16to70	1.91E-06
1199	ALL	353165.5	3792610	1.91E-06	6.5YrCancerDerived_Inh_FAH16to70	1.91E-06
1171	ALL	353190.5	3792585	1.90E-06	6.5YrCancerDerived_Inh_FAH16to70	1.90E-06
1227	ALL	353140.5	3792635	1.89E-06	6.5YrCancerDerived_Inh_FAH16to70	1.89E-06
1425	ALL	353015.5	3792810	1.89E-06	6.5YrCancerDerived_Inh_FAH16to70	1.89E-06
1340	ALL	353065.5	3792735	1.89E-06	6.5YrCancerDerived_Inh_FAH16to70	1.89E-06
1086	ALL	353240.5	3792510	1.88E-06	6.5YrCancerDerived_Inh_FAH16to70	1.88E-06
1255	ALL	353115.5	3792660	1.88E-06	6.5YrCancerDerived_Inh_FAH16to70	1.88E-06
1114	ALL	353215.5	3792535	1.87E-06	6.5YrCancerDerived_Inh_FAH16to70	1.87E-06
1283	ALL	353090.5	3792685	1.87E-06	6.5YrCancerDerived_Inh_FAH16to70	1.87E-06
1368	ALL	353040.5	3792760	1.87E-06	6.5YrCancerDerived_Inh_FAH16to70	1.87E-06
1170	ALL	353165.5	3792585	1.85E-06	6.5YrCancerDerived_Inh_FAH16to70	1.85E-06
1311	ALL	353065.5	3792710	1.85E-06	6.5YrCancerDerived_Inh_FAH16to70	1.85E-06
1198	ALL	353140.5	3792610	1.85E-06	6.5YrCancerDerived_Inh_FAH16to70	1.85E-06

1396	ALL	353015.5	3792785	1.85E-06	6.5YrCancerDerived_Inh_FAH16to70	1.85E-06
1142	ALL	353190.5	3792560	1.84E-06	6.5YrCancerDerived_Inh_FAH16to70	1.84E-06
1226	ALL	353115.5	3792635	1.83E-06	6.5YrCancerDerived_Inh_FAH16to70	1.83E-06
1339	ALL	353040.5	3792735	1.82E-06	6.5YrCancerDerived_Inh_FAH16to70	1.82E-06
1085	ALL	353215.5	3792510	1.82E-06	6.5YrCancerDerived_Inh_FAH16to70	1.82E-06
1254	ALL	353090.5	3792660	1.82E-06	6.5YrCancerDerived_Inh_FAH16to70	1.82E-06
1282	ALL	353065.5	3792685	1.81E-06	6.5YrCancerDerived_Inh_FAH16to70	1.81E-06
1367	ALL	353015.5	3792760	1.80E-06	6.5YrCancerDerived_Inh_FAH16to70	1.80E-06
1141	ALL	353165.5	3792560	1.80E-06	6.5YrCancerDerived_Inh_FAH16to70	1.80E-06
1169	ALL	353140.5	3792585	1.80E-06	6.5YrCancerDerived_Inh_FAH16to70	1.80E-06
1113	ALL	353190.5	3792535	1.79E-06	6.5YrCancerDerived_Inh_FAH16to70	1.79E-06
1197	ALL	353115.5	3792610	1.79E-06	6.5YrCancerDerived_Inh_FAH16to70	1.79E-06
1310	ALL	353040.5	3792710	1.79E-06	6.5YrCancerDerived_Inh_FAH16to70	1.79E-06
1225	ALL	353090.5	3792635	1.77E-06	6.5YrCancerDerived_Inh_FAH16to70	1.77E-06
1338	ALL	353015.5	3792735	1.76E-06	6.5YrCancerDerived_Inh_FAH16to70	1.76E-06
1253	ALL	353065.5	3792660	1.76E-06	6.5YrCancerDerived_Inh_FAH16to70	1.76E-06
1112	ALL	353165.5	3792535	1.75E-06	6.5YrCancerDerived_Inh_FAH16to70	1.75E-06
1084	ALL	353190.5	3792510	1.75E-06	6.5YrCancerDerived_Inh_FAH16to70	1.75E-06
1140	ALL	353140.5	3792560	1.75E-06	6.5YrCancerDerived_Inh_FAH16to70	1.75E-06
1281	ALL	353040.5	3792685	1.75E-06	6.5YrCancerDerived_Inh_FAH16to70	1.75E-06
1168	ALL	353115.5	3792585	1.74E-06	6.5YrCancerDerived_Inh_FAH16to70	1.74E-06
1309	ALL	353015.5	3792710	1.73E-06	6.5YrCancerDerived_Inh_FAH16to70	1.73E-06
1196	ALL	353090.5	3792610	1.73E-06	6.5YrCancerDerived_Inh_FAH16to70	1.73E-06
1224	ALL	353065.5	3792635	1.72E-06	6.5YrCancerDerived_Inh_FAH16to70	1.72E-06
1083	ALL	353165.5	3792510	1.71E-06	6.5YrCancerDerived_Inh_FAH16to70	1.71E-06
1252	ALL	353040.5	3792660	1.70E-06	6.5YrCancerDerived_Inh_FAH16to70	1.70E-06
1111	ALL	353140.5	3792535	1.70E-06	6.5YrCancerDerived_Inh_FAH16to70	1.70E-06
1139	ALL	353115.5	3792560	1.70E-06	6.5YrCancerDerived_Inh_FAH16to70	1.70E-06
1280	ALL	353015.5	3792685	1.69E-06	6.5YrCancerDerived_Inh_FAH16to70	1.69E-06
1167	ALL	353090.5	3792585	1.68E-06	6.5YrCancerDerived_Inh_FAH16to70	1.68E-06
1195	ALL	353065.5	3792610	1.67E-06	6.5YrCancerDerived_Inh_FAH16to70	1.67E-06
1223	ALL	353040.5	3792635	1.66E-06	6.5YrCancerDerived_Inh_FAH16to70	1.66E-06
1082	ALL	353140.5	3792510	1.66E-06	6.5YrCancerDerived_Inh_FAH16to70	1.66E-06
1110	ALL	353115.5	3792535	1.65E-06	6.5YrCancerDerived_Inh_FAH16to70	1.65E-06
1251	ALL	353015.5	3792660	1.65E-06	6.5YrCancerDerived_Inh_FAH16to70	1.65E-06
1138	ALL	353090.5	3792560	1.64E-06	6.5YrCancerDerived_Inh_FAH16to70	1.64E-06
1166	ALL	353065.5	3792585	1.63E-06	6.5YrCancerDerived_Inh_FAH16to70	1.63E-06
1194	ALL	353040.5	3792610	1.62E-06	6.5YrCancerDerived_Inh_FAH16to70	1.62E-06
1222	ALL	353015.5	3792635	1.61E-06	6.5YrCancerDerived_Inh_FAH16to70	1.61E-06
1081	ALL	353115.5	3792510	1.61E-06	6.5YrCancerDerived_Inh_FAH16to70	1.61E-06
1109	ALL	353090.5	3792535	1.60E-06	6.5YrCancerDerived_Inh_FAH16to70	1.60E-06
1137	ALL	353065.5	3792560	1.60E-06	6.5YrCancerDerived_Inh_FAH16to70	1.60E-06
1165	ALL	353040.5	3792585	1.59E-06	6.5YrCancerDerived_Inh_FAH16to70	1.59E-06
1193	ALL	353015.5	3792610	1.58E-06	6.5YrCancerDerived_Inh_FAH16to70	1.58E-06
1080	ALL	353090.5	3792510	1.56E-06	6.5YrCancerDerived_Inh_FAH16to70	1.56E-06
1108	ALL	353065.5	3792535	1.56E-06	6.5YrCancerDerived_Inh_FAH16to70	1.56E-06
1136	ALL	353040.5	3792560	1.55E-06	6.5YrCancerDerived_Inh_FAH16to70	1.55E-06

1164	ALL	353015.5	3792585	1.54E-06	6.5YrCancerDerived_Inh_FAH16to70	1.54E-06
1079	ALL	353065.5	3792510	1.52E-06	6.5YrCancerDerived_Inh_FAH16to70	1.52E-06
1107	ALL	353040.5	3792535	1.51E-06	6.5YrCancerDerived_Inh_FAH16to70	1.51E-06
1135	ALL	353015.5	3792560	1.51E-06	6.5YrCancerDerived_Inh_FAH16to70	1.51E-06
1078	ALL	353040.5	3792510	1.48E-06	6.5YrCancerDerived_Inh_FAH16to70	1.48E-06
1106	ALL	353015.5	3792535	1.47E-06	6.5YrCancerDerived_Inh_FAH16to70	1.47E-06
1077	ALL	353015.5	3792510	1.44E-06	6.5YrCancerDerived_Inh_FAH16to70	1.44E-06

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*HARP - HRACalc v19044 10/9/2019 1:35:29 PM - Chronic Risk - Input File: P:\300.Environmental\10649 LADWI

REC	GRP	X	Y	SCENARIO	MAXHI
2005	ALL	354008	3793427	NonCancerChronicDerived_Inh	6.19E-02
2006	ALL	354023	3793427	NonCancerChronicDerived_Inh	6.04E-02
2007	ALL	354038	3793427	NonCancerChronicDerived_Inh	5.79E-02
2008	ALL	354053	3793427	NonCancerChronicDerived_Inh	5.44E-02
2009	ALL	354068	3793427	NonCancerChronicDerived_Inh	5.03E-02
2010	ALL	354083	3793427	NonCancerChronicDerived_Inh	4.57E-02
1996	ALL	354008	3793412	NonCancerChronicDerived_Inh	4.49E-02
1997	ALL	354023	3793412	NonCancerChronicDerived_Inh	4.37E-02
1998	ALL	354038	3793412	NonCancerChronicDerived_Inh	4.20E-02
2011	ALL	354098	3793427	NonCancerChronicDerived_Inh	4.08E-02
1999	ALL	354053	3793412	NonCancerChronicDerived_Inh	3.98E-02
2000	ALL	354068	3793412	NonCancerChronicDerived_Inh	3.69E-02
2012	ALL	354113	3793427	NonCancerChronicDerived_Inh	3.58E-02
1988	ALL	354008	3793397	NonCancerChronicDerived_Inh	3.45E-02
2001	ALL	354083	3793412	NonCancerChronicDerived_Inh	3.37E-02
1989	ALL	354023	3793397	NonCancerChronicDerived_Inh	3.37E-02
1990	ALL	354038	3793397	NonCancerChronicDerived_Inh	3.25E-02
1991	ALL	354053	3793397	NonCancerChronicDerived_Inh	3.09E-02
2002	ALL	354098	3793412	NonCancerChronicDerived_Inh	3.04E-02
2013	ALL	354128	3793427	NonCancerChronicDerived_Inh	2.97E-02
1992	ALL	354068	3793397	NonCancerChronicDerived_Inh	2.88E-02
1981	ALL	354008	3793382	NonCancerChronicDerived_Inh	2.79E-02
1982	ALL	354023	3793382	NonCancerChronicDerived_Inh	2.75E-02
2003	ALL	354113	3793412	NonCancerChronicDerived_Inh	2.72E-02
1993	ALL	354083	3793397	NonCancerChronicDerived_Inh	2.65E-02
1983	ALL	354038	3793382	NonCancerChronicDerived_Inh	2.64E-02
1984	ALL	354053	3793382	NonCancerChronicDerived_Inh	2.51E-02
1994	ALL	354098	3793397	NonCancerChronicDerived_Inh	2.40E-02
2004	ALL	354128	3793412	NonCancerChronicDerived_Inh	2.37E-02
1985	ALL	354068	3793382	NonCancerChronicDerived_Inh	2.36E-02
1974	ALL	354008	3793367	NonCancerChronicDerived_Inh	2.31E-02
1975	ALL	354023	3793367	NonCancerChronicDerived_Inh	2.28E-02
1976	ALL	354038	3793367	NonCancerChronicDerived_Inh	2.20E-02
1995	ALL	354113	3793397	NonCancerChronicDerived_Inh	2.18E-02
1986	ALL	354083	3793382	NonCancerChronicDerived_Inh	2.18E-02
1977	ALL	354053	3793367	NonCancerChronicDerived_Inh	2.09E-02
1987	ALL	354098	3793382	NonCancerChronicDerived_Inh	1.99E-02
1978	ALL	354068	3793367	NonCancerChronicDerived_Inh	1.97E-02
1968	ALL	354008	3793352	NonCancerChronicDerived_Inh	1.94E-02
1969	ALL	354023	3793352	NonCancerChronicDerived_Inh	1.90E-02
1970	ALL	354038	3793352	NonCancerChronicDerived_Inh	1.84E-02
1979	ALL	354083	3793367	NonCancerChronicDerived_Inh	1.84E-02
1971	ALL	354053	3793352	NonCancerChronicDerived_Inh	1.76E-02
1011	ALL	353773.1	3793343	NonCancerChronicDerived_Inh	1.70E-02
1980	ALL	354098	3793367	NonCancerChronicDerived_Inh	1.69E-02

1962	ALL	353993	3793337	NonCancerChronicDerived_Inh	1.68E-02
1972	ALL	354068	3793352	NonCancerChronicDerived_Inh	1.67E-02
1963	ALL	354008	3793337	NonCancerChronicDerived_Inh	1.66E-02
1964	ALL	354023	3793337	NonCancerChronicDerived_Inh	1.62E-02
1965	ALL	354038	3793337	NonCancerChronicDerived_Inh	1.58E-02
1973	ALL	354083	3793352	NonCancerChronicDerived_Inh	1.57E-02
992	ALL	353773.1	3793318	NonCancerChronicDerived_Inh	1.55E-02
1966	ALL	354053	3793337	NonCancerChronicDerived_Inh	1.52E-02
1955	ALL	353963	3793322	NonCancerChronicDerived_Inh	1.48E-02
811	ALL	353773.1	3793143	NonCancerChronicDerived_Inh	1.48E-02
1956	ALL	353978	3793322	NonCancerChronicDerived_Inh	1.47E-02
954	ALL	353773.1	3793268	NonCancerChronicDerived_Inh	1.46E-02
1957	ALL	353993	3793322	NonCancerChronicDerived_Inh	1.46E-02
1958	ALL	354008	3793322	NonCancerChronicDerived_Inh	1.44E-02
1967	ALL	354068	3793337	NonCancerChronicDerived_Inh	1.44E-02
747	ALL	353773.1	3793093	NonCancerChronicDerived_Inh	1.43E-02
2273	ALL	353711.5	3793405	NonCancerChronicDerived_Inh	1.41E-02
1959	ALL	354023	3793322	NonCancerChronicDerived_Inh	1.40E-02
907	ALL	353773.1	3793218	NonCancerChronicDerived_Inh	1.40E-02
715	ALL	353773.1	3793068	NonCancerChronicDerived_Inh	1.40E-02
2201	ALL	353726.5	3793360	NonCancerChronicDerived_Inh	1.39E-02
1012	ALL	353798.1	3793343	NonCancerChronicDerived_Inh	1.39E-02
875	ALL	353773.1	3793193	NonCancerChronicDerived_Inh	1.39E-02
683	ALL	353773.1	3793043	NonCancerChronicDerived_Inh	1.37E-02
973	ALL	353773.1	3793293	NonCancerChronicDerived_Inh	1.37E-02
1960	ALL	354038	3793322	NonCancerChronicDerived_Inh	1.37E-02
1013	ALL	353823.1	3793343	NonCancerChronicDerived_Inh	1.35E-02
843	ALL	353773.1	3793168	NonCancerChronicDerived_Inh	1.35E-02
652	ALL	353773.1	3793018	NonCancerChronicDerived_Inh	1.35E-02
621	ALL	353773.1	3792993	NonCancerChronicDerived_Inh	1.32E-02
1961	ALL	354053	3793322	NonCancerChronicDerived_Inh	1.32E-02
993	ALL	353798.1	3793318	NonCancerChronicDerived_Inh	1.32E-02
1930	ALL	353740.5	3793235	NonCancerChronicDerived_Inh	1.31E-02
2249	ALL	353711.5	3793390	NonCancerChronicDerived_Inh	1.30E-02
1949	ALL	353963	3793307	NonCancerChronicDerived_Inh	1.30E-02
779	ALL	353773.1	3793118	NonCancerChronicDerived_Inh	1.30E-02
1924	ALL	353740.5	3793210	NonCancerChronicDerived_Inh	1.30E-02
2176	ALL	353726.5	3793345	NonCancerChronicDerived_Inh	1.30E-02
1950	ALL	353978	3793307	NonCancerChronicDerived_Inh	1.30E-02
590	ALL	353773.1	3792968	NonCancerChronicDerived_Inh	1.29E-02
1951	ALL	353993	3793307	NonCancerChronicDerived_Inh	1.29E-02
1894	ALL	353740.5	3793185	NonCancerChronicDerived_Inh	1.29E-02
1864	ALL	353740.5	3793160	NonCancerChronicDerived_Inh	1.28E-02
1834	ALL	353740.5	3793135	NonCancerChronicDerived_Inh	1.27E-02
1952	ALL	354008	3793307	NonCancerChronicDerived_Inh	1.27E-02
559	ALL	353773.1	3792943	NonCancerChronicDerived_Inh	1.27E-02
1804	ALL	353740.5	3793110	NonCancerChronicDerived_Inh	1.26E-02

1774	ALL	353740.5	3793085	NonCancerChronicDerived_Inh	1.26E-02
1744	ALL	353740.5	3793060	NonCancerChronicDerived_Inh	1.25E-02
974	ALL	353798.1	3793293	NonCancerChronicDerived_Inh	1.25E-02
1953	ALL	354023	3793307	NonCancerChronicDerived_Inh	1.24E-02
528	ALL	353773.1	3792918	NonCancerChronicDerived_Inh	1.24E-02
2151	ALL	353726.5	3793330	NonCancerChronicDerived_Inh	1.23E-02
2225	ALL	353711.5	3793375	NonCancerChronicDerived_Inh	1.21E-02
1046	ALL	354173.1	3793393	NonCancerChronicDerived_Inh	1.21E-02
994	ALL	353823.1	3793318	NonCancerChronicDerived_Inh	1.21E-02
497	ALL	353773.1	3792893	NonCancerChronicDerived_Inh	1.21E-02
1954	ALL	354038	3793307	NonCancerChronicDerived_Inh	1.20E-02
955	ALL	353798.1	3793268	NonCancerChronicDerived_Inh	1.19E-02
2126	ALL	353726.5	3793315	NonCancerChronicDerived_Inh	1.18E-02
466	ALL	353773.1	3792868	NonCancerChronicDerived_Inh	1.18E-02
2296	ALL	353696.5	3793420	NonCancerChronicDerived_Inh	1.17E-02
1943	ALL	353948	3793292	NonCancerChronicDerived_Inh	1.17E-02
1944	ALL	353963	3793292	NonCancerChronicDerived_Inh	1.17E-02
435	ALL	353773.1	3792843	NonCancerChronicDerived_Inh	1.17E-02
1945	ALL	353978	3793292	NonCancerChronicDerived_Inh	1.16E-02
1942	ALL	353933	3793292	NonCancerChronicDerived_Inh	1.15E-02
1946	ALL	353993	3793292	NonCancerChronicDerived_Inh	1.15E-02
2101	ALL	353726.5	3793300	NonCancerChronicDerived_Inh	1.15E-02
404	ALL	353773.1	3792818	NonCancerChronicDerived_Inh	1.15E-02
2200	ALL	353711.5	3793360	NonCancerChronicDerived_Inh	1.14E-02
1947	ALL	354008	3793292	NonCancerChronicDerived_Inh	1.13E-02
1062	ALL	354198.1	3793418	NonCancerChronicDerived_Inh	1.13E-02
373	ALL	353773.1	3792793	NonCancerChronicDerived_Inh	1.13E-02
2076	ALL	353726.5	3793285	NonCancerChronicDerived_Inh	1.12E-02
2272	ALL	353696.5	3793405	NonCancerChronicDerived_Inh	1.11E-02
1948	ALL	354023	3793292	NonCancerChronicDerived_Inh	1.11E-02
975	ALL	353823.1	3793293	NonCancerChronicDerived_Inh	1.11E-02
2051	ALL	353726.5	3793270	NonCancerChronicDerived_Inh	1.10E-02
342	ALL	353773.1	3792768	NonCancerChronicDerived_Inh	1.10E-02
908	ALL	353798.1	3793218	NonCancerChronicDerived_Inh	1.08E-02
2175	ALL	353711.5	3793345	NonCancerChronicDerived_Inh	1.07E-02
311	ALL	353773.1	3792743	NonCancerChronicDerived_Inh	1.07E-02
2248	ALL	353696.5	3793390	NonCancerChronicDerived_Inh	1.06E-02
1939	ALL	353963	3793277	NonCancerChronicDerived_Inh	1.05E-02
1938	ALL	353948	3793277	NonCancerChronicDerived_Inh	1.05E-02
1940	ALL	353978	3793277	NonCancerChronicDerived_Inh	1.05E-02
1030	ALL	354173.1	3793368	NonCancerChronicDerived_Inh	1.05E-02
1937	ALL	353933	3793277	NonCancerChronicDerived_Inh	1.04E-02
1941	ALL	353993	3793277	NonCancerChronicDerived_Inh	1.04E-02
280	ALL	353773.1	3792718	NonCancerChronicDerived_Inh	1.04E-02
1936	ALL	353918	3793277	NonCancerChronicDerived_Inh	1.03E-02
2150	ALL	353711.5	3793330	NonCancerChronicDerived_Inh	1.03E-02
2340	ALL	353681.5	3793450	NonCancerChronicDerived_Inh	1.03E-02

956	ALL	353823.1	3793268	NonCancerChronicDerived_Inh	1.02E-02
844	ALL	353798.1	3793168	NonCancerChronicDerived_Inh	1.02E-02
2224	ALL	353696.5	3793375	NonCancerChronicDerived_Inh	1.01E-02
2318	ALL	353681.5	3793435	NonCancerChronicDerived_Inh	1.01E-02
876	ALL	353798.1	3793193	NonCancerChronicDerived_Inh	1.01E-02
1047	ALL	354198.1	3793393	NonCancerChronicDerived_Inh	9.98E-03
812	ALL	353798.1	3793143	NonCancerChronicDerived_Inh	9.96E-03
2125	ALL	353711.5	3793315	NonCancerChronicDerived_Inh	9.96E-03
249	ALL	353773.1	3792693	NonCancerChronicDerived_Inh	9.85E-03
2295	ALL	353681.5	3793420	NonCancerChronicDerived_Inh	9.76E-03
2100	ALL	353711.5	3793300	NonCancerChronicDerived_Inh	9.68E-03
780	ALL	353798.1	3793118	NonCancerChronicDerived_Inh	9.67E-03
2199	ALL	353696.5	3793360	NonCancerChronicDerived_Inh	9.66E-03
1935	ALL	353963	3793262	NonCancerChronicDerived_Inh	9.60E-03
1934	ALL	353948	3793262	NonCancerChronicDerived_Inh	9.59E-03
1933	ALL	353933	3793262	NonCancerChronicDerived_Inh	9.54E-03
1932	ALL	353918	3793262	NonCancerChronicDerived_Inh	9.48E-03
1929	ALL	353715.5	3793235	NonCancerChronicDerived_Inh	9.47E-03
2075	ALL	353711.5	3793285	NonCancerChronicDerived_Inh	9.47E-03
748	ALL	353798.1	3793093	NonCancerChronicDerived_Inh	9.42E-03
2271	ALL	353681.5	3793405	NonCancerChronicDerived_Inh	9.41E-03
1923	ALL	353715.5	3793210	NonCancerChronicDerived_Inh	9.37E-03
2050	ALL	353711.5	3793270	NonCancerChronicDerived_Inh	9.31E-03
2174	ALL	353696.5	3793345	NonCancerChronicDerived_Inh	9.25E-03
716	ALL	353798.1	3793068	NonCancerChronicDerived_Inh	9.23E-03
1893	ALL	353715.5	3793185	NonCancerChronicDerived_Inh	9.22E-03
1063	ALL	354223.1	3793418	NonCancerChronicDerived_Inh	9.22E-03
1014	ALL	354173.1	3793343	NonCancerChronicDerived_Inh	9.13E-03
2247	ALL	353681.5	3793390	NonCancerChronicDerived_Inh	9.10E-03
1863	ALL	353715.5	3793160	NonCancerChronicDerived_Inh	9.08E-03
684	ALL	353798.1	3793043	NonCancerChronicDerived_Inh	9.07E-03
909	ALL	353823.1	3793218	NonCancerChronicDerived_Inh	9.02E-03
218	ALL	353773.1	3792668	NonCancerChronicDerived_Inh	9.01E-03
2149	ALL	353696.5	3793330	NonCancerChronicDerived_Inh	8.96E-03
1833	ALL	353715.5	3793135	NonCancerChronicDerived_Inh	8.96E-03
1031	ALL	354198.1	3793368	NonCancerChronicDerived_Inh	8.91E-03
1803	ALL	353715.5	3793110	NonCancerChronicDerived_Inh	8.87E-03
653	ALL	353798.1	3793018	NonCancerChronicDerived_Inh	8.86E-03
2339	ALL	353666.5	3793450	NonCancerChronicDerived_Inh	8.82E-03
2223	ALL	353681.5	3793375	NonCancerChronicDerived_Inh	8.79E-03
1773	ALL	353715.5	3793085	NonCancerChronicDerived_Inh	8.76E-03
2124	ALL	353696.5	3793315	NonCancerChronicDerived_Inh	8.72E-03
622	ALL	353798.1	3792993	NonCancerChronicDerived_Inh	8.66E-03
1743	ALL	353715.5	3793060	NonCancerChronicDerived_Inh	8.64E-03
2317	ALL	353666.5	3793435	NonCancerChronicDerived_Inh	8.60E-03
1714	ALL	353715.5	3793035	NonCancerChronicDerived_Inh	8.53E-03
2099	ALL	353696.5	3793300	NonCancerChronicDerived_Inh	8.52E-03

2198	ALL	353681.5	3793360	NonCancerChronicDerived_Inh	8.47E-03
1685	ALL	353715.5	3793010	NonCancerChronicDerived_Inh	8.46E-03
591	ALL	353798.1	3792968	NonCancerChronicDerived_Inh	8.46E-03
2294	ALL	353666.5	3793420	NonCancerChronicDerived_Inh	8.44E-03
1048	ALL	354223.1	3793393	NonCancerChronicDerived_Inh	8.40E-03
877	ALL	353823.1	3793193	NonCancerChronicDerived_Inh	8.40E-03
1656	ALL	353715.5	3792985	NonCancerChronicDerived_Inh	8.38E-03
2074	ALL	353696.5	3793285	NonCancerChronicDerived_Inh	8.36E-03
1627	ALL	353715.5	3792960	NonCancerChronicDerived_Inh	8.32E-03
1598	ALL	353715.5	3792935	NonCancerChronicDerived_Inh	8.25E-03
560	ALL	353798.1	3792943	NonCancerChronicDerived_Inh	8.24E-03
2270	ALL	353666.5	3793405	NonCancerChronicDerived_Inh	8.24E-03
910	ALL	353848.1	3793218	NonCancerChronicDerived_Inh	8.21E-03
845	ALL	353823.1	3793168	NonCancerChronicDerived_Inh	8.20E-03
2049	ALL	353696.5	3793270	NonCancerChronicDerived_Inh	8.20E-03
1569	ALL	353715.5	3792910	NonCancerChronicDerived_Inh	8.19E-03
2173	ALL	353681.5	3793345	NonCancerChronicDerived_Inh	8.17E-03
1540	ALL	353715.5	3792885	NonCancerChronicDerived_Inh	8.12E-03
2246	ALL	353666.5	3793390	NonCancerChronicDerived_Inh	8.03E-03
1511	ALL	353715.5	3792860	NonCancerChronicDerived_Inh	8.01E-03
995	ALL	354173.1	3793318	NonCancerChronicDerived_Inh	8.01E-03
529	ALL	353798.1	3792918	NonCancerChronicDerived_Inh	8.00E-03
813	ALL	353823.1	3793143	NonCancerChronicDerived_Inh	7.97E-03
2148	ALL	353681.5	3793330	NonCancerChronicDerived_Inh	7.96E-03
1015	ALL	354198.1	3793343	NonCancerChronicDerived_Inh	7.92E-03
1482	ALL	353715.5	3792835	NonCancerChronicDerived_Inh	7.92E-03
911	ALL	353873.1	3793218	NonCancerChronicDerived_Inh	7.85E-03
2360	ALL	353651.5	3793465	NonCancerChronicDerived_Inh	7.84E-03
2222	ALL	353666.5	3793375	NonCancerChronicDerived_Inh	7.82E-03
1453	ALL	353715.5	3792810	NonCancerChronicDerived_Inh	7.82E-03
498	ALL	353798.1	3792893	NonCancerChronicDerived_Inh	7.81E-03
2123	ALL	353681.5	3793315	NonCancerChronicDerived_Inh	7.78E-03
1064	ALL	354248.1	3793418	NonCancerChronicDerived_Inh	7.77E-03
2338	ALL	353651.5	3793450	NonCancerChronicDerived_Inh	7.77E-03
912	ALL	353898.1	3793218	NonCancerChronicDerived_Inh	7.72E-03
1931	ALL	353923.3	3793217	NonCancerChronicDerived_Inh	7.70E-03
1424	ALL	353715.5	3792785	NonCancerChronicDerived_Inh	7.69E-03
781	ALL	353823.1	3793118	NonCancerChronicDerived_Inh	7.68E-03
467	ALL	353798.1	3792868	NonCancerChronicDerived_Inh	7.67E-03
913	ALL	353948.1	3793218	NonCancerChronicDerived_Inh	7.67E-03
2316	ALL	353651.5	3793435	NonCancerChronicDerived_Inh	7.66E-03
2098	ALL	353681.5	3793300	NonCancerChronicDerived_Inh	7.63E-03
878	ALL	353848.1	3793193	NonCancerChronicDerived_Inh	7.62E-03
1032	ALL	354223.1	3793368	NonCancerChronicDerived_Inh	7.60E-03
2197	ALL	353666.5	3793360	NonCancerChronicDerived_Inh	7.58E-03
914	ALL	353973.1	3793218	NonCancerChronicDerived_Inh	7.57E-03
1395	ALL	353715.5	3792760	NonCancerChronicDerived_Inh	7.57E-03

2293	ALL	353651.5	3793420	NonCancerChronicDerived_Inh	7.54E-03
436	ALL	353798.1	3792843	NonCancerChronicDerived_Inh	7.53E-03
1928	ALL	353690.5	3793235	NonCancerChronicDerived_Inh	7.52E-03
2436	ALL	353636.5	3793525	NonCancerChronicDerived_Inh	7.51E-03
2073	ALL	353681.5	3793285	NonCancerChronicDerived_Inh	7.49E-03
915	ALL	353998.1	3793218	NonCancerChronicDerived_Inh	7.46E-03
2417	ALL	353636.5	3793510	NonCancerChronicDerived_Inh	7.43E-03
749	ALL	353823.1	3793093	NonCancerChronicDerived_Inh	7.42E-03
2269	ALL	353651.5	3793405	NonCancerChronicDerived_Inh	7.39E-03
405	ALL	353798.1	3792818	NonCancerChronicDerived_Inh	7.38E-03
1922	ALL	353690.5	3793210	NonCancerChronicDerived_Inh	7.37E-03
1366	ALL	353715.5	3792735	NonCancerChronicDerived_Inh	7.36E-03
2172	ALL	353666.5	3793345	NonCancerChronicDerived_Inh	7.34E-03
2048	ALL	353681.5	3793270	NonCancerChronicDerived_Inh	7.33E-03
187	ALL	353773.1	3792643	NonCancerChronicDerived_Inh	7.33E-03
2398	ALL	353636.5	3793495	NonCancerChronicDerived_Inh	7.32E-03
916	ALL	354023.1	3793218	NonCancerChronicDerived_Inh	7.28E-03
879	ALL	353873.1	3793193	NonCancerChronicDerived_Inh	7.25E-03
2245	ALL	353651.5	3793390	NonCancerChronicDerived_Inh	7.24E-03
1892	ALL	353690.5	3793185	NonCancerChronicDerived_Inh	7.23E-03
1049	ALL	354248.1	3793393	NonCancerChronicDerived_Inh	7.23E-03
846	ALL	353848.1	3793168	NonCancerChronicDerived_Inh	7.20E-03
374	ALL	353798.1	3792793	NonCancerChronicDerived_Inh	7.19E-03
717	ALL	353823.1	3793068	NonCancerChronicDerived_Inh	7.19E-03
2147	ALL	353666.5	3793330	NonCancerChronicDerived_Inh	7.18E-03
2379	ALL	353636.5	3793480	NonCancerChronicDerived_Inh	7.16E-03
1862	ALL	353690.5	3793160	NonCancerChronicDerived_Inh	7.10E-03
996	ALL	354198.1	3793318	NonCancerChronicDerived_Inh	7.09E-03
2221	ALL	353651.5	3793375	NonCancerChronicDerived_Inh	7.08E-03
976	ALL	354173.1	3793293	NonCancerChronicDerived_Inh	7.05E-03
880	ALL	353898.1	3793193	NonCancerChronicDerived_Inh	7.04E-03
1337	ALL	353715.5	3792710	NonCancerChronicDerived_Inh	7.04E-03
2122	ALL	353666.5	3793315	NonCancerChronicDerived_Inh	7.04E-03
2359	ALL	353636.5	3793465	NonCancerChronicDerived_Inh	7.03E-03
917	ALL	354048.1	3793218	NonCancerChronicDerived_Inh	7.00E-03
1832	ALL	353690.5	3793135	NonCancerChronicDerived_Inh	6.99E-03
2337	ALL	353636.5	3793450	NonCancerChronicDerived_Inh	6.99E-03
685	ALL	353823.1	3793043	NonCancerChronicDerived_Inh	6.99E-03
343	ALL	353798.1	3792768	NonCancerChronicDerived_Inh	6.98E-03
814	ALL	353848.1	3793143	NonCancerChronicDerived_Inh	6.95E-03
2454	ALL	353621.5	3793540	NonCancerChronicDerived_Inh	6.94E-03
881	ALL	353923.1	3793193	NonCancerChronicDerived_Inh	6.93E-03
2315	ALL	353636.5	3793435	NonCancerChronicDerived_Inh	6.92E-03
2097	ALL	353666.5	3793300	NonCancerChronicDerived_Inh	6.90E-03
1016	ALL	354223.1	3793343	NonCancerChronicDerived_Inh	6.90E-03
882	ALL	353948.1	3793193	NonCancerChronicDerived_Inh	6.90E-03
2435	ALL	353621.5	3793525	NonCancerChronicDerived_Inh	6.89E-03

1802	ALL	353690.5	3793110	NonCancerChronicDerived_Inh	6.88E-03
2196	ALL	353651.5	3793360	NonCancerChronicDerived_Inh	6.87E-03
2292	ALL	353636.5	3793420	NonCancerChronicDerived_Inh	6.83E-03
2416	ALL	353621.5	3793510	NonCancerChronicDerived_Inh	6.79E-03
654	ALL	353823.1	3793018	NonCancerChronicDerived_Inh	6.79E-03
2072	ALL	353666.5	3793285	NonCancerChronicDerived_Inh	6.78E-03
883	ALL	353973.1	3793193	NonCancerChronicDerived_Inh	6.78E-03
1772	ALL	353690.5	3793085	NonCancerChronicDerived_Inh	6.78E-03
847	ALL	353873.1	3793168	NonCancerChronicDerived_Inh	6.77E-03
312	ALL	353798.1	3792743	NonCancerChronicDerived_Inh	6.74E-03
2268	ALL	353636.5	3793405	NonCancerChronicDerived_Inh	6.72E-03
2397	ALL	353621.5	3793495	NonCancerChronicDerived_Inh	6.67E-03
1033	ALL	354248.1	3793368	NonCancerChronicDerived_Inh	6.67E-03
2171	ALL	353651.5	3793345	NonCancerChronicDerived_Inh	6.67E-03
1742	ALL	353690.5	3793060	NonCancerChronicDerived_Inh	6.67E-03
1065	ALL	354273.1	3793418	NonCancerChronicDerived_Inh	6.67E-03
884	ALL	353998.1	3793193	NonCancerChronicDerived_Inh	6.66E-03
782	ALL	353848.1	3793118	NonCancerChronicDerived_Inh	6.66E-03
918	ALL	354073.1	3793218	NonCancerChronicDerived_Inh	6.65E-03
2047	ALL	353666.5	3793270	NonCancerChronicDerived_Inh	6.63E-03
623	ALL	353823.1	3792993	NonCancerChronicDerived_Inh	6.61E-03
2244	ALL	353636.5	3793390	NonCancerChronicDerived_Inh	6.60E-03
2378	ALL	353621.5	3793480	NonCancerChronicDerived_Inh	6.56E-03
1713	ALL	353690.5	3793035	NonCancerChronicDerived_Inh	6.55E-03
2146	ALL	353651.5	3793330	NonCancerChronicDerived_Inh	6.54E-03
848	ALL	353898.1	3793168	NonCancerChronicDerived_Inh	6.50E-03
1308	ALL	353715.5	3792685	NonCancerChronicDerived_Inh	6.49E-03
885	ALL	354023.1	3793193	NonCancerChronicDerived_Inh	6.49E-03
1684	ALL	353690.5	3793010	NonCancerChronicDerived_Inh	6.49E-03
2220	ALL	353636.5	3793375	NonCancerChronicDerived_Inh	6.47E-03
281	ALL	353798.1	3792718	NonCancerChronicDerived_Inh	6.46E-03
2358	ALL	353621.5	3793465	NonCancerChronicDerived_Inh	6.46E-03
592	ALL	353823.1	3792968	NonCancerChronicDerived_Inh	6.42E-03
815	ALL	353873.1	3793143	NonCancerChronicDerived_Inh	6.42E-03
2121	ALL	353651.5	3793315	NonCancerChronicDerived_Inh	6.42E-03
2336	ALL	353621.5	3793450	NonCancerChronicDerived_Inh	6.41E-03
1655	ALL	353690.5	3792985	NonCancerChronicDerived_Inh	6.39E-03
750	ALL	353848.1	3793093	NonCancerChronicDerived_Inh	6.39E-03
2471	ALL	353606.5	3793555	NonCancerChronicDerived_Inh	6.35E-03
977	ALL	354198.1	3793293	NonCancerChronicDerived_Inh	6.34E-03
2314	ALL	353621.5	3793435	NonCancerChronicDerived_Inh	6.34E-03
849	ALL	353923.1	3793168	NonCancerChronicDerived_Inh	6.34E-03
919	ALL	354098.1	3793218	NonCancerChronicDerived_Inh	6.33E-03
2453	ALL	353606.5	3793540	NonCancerChronicDerived_Inh	6.32E-03
997	ALL	354223.1	3793318	NonCancerChronicDerived_Inh	6.31E-03
1050	ALL	354273.1	3793393	NonCancerChronicDerived_Inh	6.30E-03
2096	ALL	353651.5	3793300	NonCancerChronicDerived_Inh	6.30E-03

1626	ALL	353690.5	3792960	NonCancerChronicDerived_Inh	6.30E-03
1927	ALL	353665.5	3793235	NonCancerChronicDerived_Inh	6.30E-03
2195	ALL	353636.5	3793360	NonCancerChronicDerived_Inh	6.28E-03
957	ALL	354173.1	3793268	NonCancerChronicDerived_Inh	6.26E-03
850	ALL	353948.1	3793168	NonCancerChronicDerived_Inh	6.26E-03
2291	ALL	353621.5	3793420	NonCancerChronicDerived_Inh	6.25E-03
886	ALL	354048.1	3793193	NonCancerChronicDerived_Inh	6.25E-03
2434	ALL	353606.5	3793525	NonCancerChronicDerived_Inh	6.25E-03
561	ALL	353823.1	3792943	NonCancerChronicDerived_Inh	6.24E-03
1597	ALL	353690.5	3792935	NonCancerChronicDerived_Inh	6.22E-03
2071	ALL	353651.5	3793285	NonCancerChronicDerived_Inh	6.19E-03
2267	ALL	353621.5	3793405	NonCancerChronicDerived_Inh	6.16E-03
1017	ALL	354248.1	3793343	NonCancerChronicDerived_Inh	6.16E-03
1568	ALL	353690.5	3792910	NonCancerChronicDerived_Inh	6.15E-03
1921	ALL	353665.5	3793210	NonCancerChronicDerived_Inh	6.15E-03
2415	ALL	353606.5	3793510	NonCancerChronicDerived_Inh	6.15E-03
851	ALL	353973.1	3793168	NonCancerChronicDerived_Inh	6.13E-03
718	ALL	353848.1	3793068	NonCancerChronicDerived_Inh	6.13E-03
2170	ALL	353636.5	3793345	NonCancerChronicDerived_Inh	6.11E-03
250	ALL	353798.1	3792693	NonCancerChronicDerived_Inh	6.10E-03
783	ALL	353873.1	3793118	NonCancerChronicDerived_Inh	6.08E-03
1539	ALL	353690.5	3792885	NonCancerChronicDerived_Inh	6.07E-03
530	ALL	353823.1	3792918	NonCancerChronicDerived_Inh	6.06E-03
2396	ALL	353606.5	3793495	NonCancerChronicDerived_Inh	6.06E-03
816	ALL	353898.1	3793143	NonCancerChronicDerived_Inh	6.06E-03
2243	ALL	353621.5	3793390	NonCancerChronicDerived_Inh	6.06E-03
2046	ALL	353651.5	3793270	NonCancerChronicDerived_Inh	6.05E-03
1891	ALL	353665.5	3793185	NonCancerChronicDerived_Inh	6.03E-03
2377	ALL	353606.5	3793480	NonCancerChronicDerived_Inh	6.02E-03
852	ALL	353998.1	3793168	NonCancerChronicDerived_Inh	6.02E-03
2145	ALL	353636.5	3793330	NonCancerChronicDerived_Inh	6.00E-03
920	ALL	354123.1	3793218	NonCancerChronicDerived_Inh	5.97E-03
2357	ALL	353606.5	3793465	NonCancerChronicDerived_Inh	5.96E-03
1510	ALL	353690.5	3792860	NonCancerChronicDerived_Inh	5.96E-03
887	ALL	354073.1	3793193	NonCancerChronicDerived_Inh	5.95E-03
2219	ALL	353621.5	3793375	NonCancerChronicDerived_Inh	5.95E-03
1861	ALL	353665.5	3793160	NonCancerChronicDerived_Inh	5.92E-03
1034	ALL	354273.1	3793368	NonCancerChronicDerived_Inh	5.91E-03
499	ALL	353823.1	3792893	NonCancerChronicDerived_Inh	5.91E-03
686	ALL	353848.1	3793043	NonCancerChronicDerived_Inh	5.91E-03
2335	ALL	353606.5	3793450	NonCancerChronicDerived_Inh	5.91E-03
2120	ALL	353636.5	3793315	NonCancerChronicDerived_Inh	5.89E-03
2487	ALL	353591.5	3793570	NonCancerChronicDerived_Inh	5.87E-03
853	ALL	354023.1	3793168	NonCancerChronicDerived_Inh	5.86E-03
817	ALL	353923.1	3793143	NonCancerChronicDerived_Inh	5.85E-03
1481	ALL	353690.5	3792835	NonCancerChronicDerived_Inh	5.85E-03
2313	ALL	353606.5	3793435	NonCancerChronicDerived_Inh	5.85E-03

2470	ALL	353591.5	3793555	NonCancerChronicDerived_Inh	5.81E-03
1066	ALL	354298.1	3793418	NonCancerChronicDerived_Inh	5.81E-03
1831	ALL	353665.5	3793135	NonCancerChronicDerived_Inh	5.80E-03
2095	ALL	353636.5	3793300	NonCancerChronicDerived_Inh	5.79E-03
2194	ALL	353621.5	3793360	NonCancerChronicDerived_Inh	5.78E-03
468	ALL	353823.1	3792868	NonCancerChronicDerived_Inh	5.78E-03
2290	ALL	353606.5	3793420	NonCancerChronicDerived_Inh	5.77E-03
2452	ALL	353591.5	3793540	NonCancerChronicDerived_Inh	5.74E-03
751	ALL	353873.1	3793093	NonCancerChronicDerived_Inh	5.74E-03
1452	ALL	353690.5	3792810	NonCancerChronicDerived_Inh	5.74E-03
818	ALL	353948.1	3793143	NonCancerChronicDerived_Inh	5.73E-03
978	ALL	354223.1	3793293	NonCancerChronicDerived_Inh	5.73E-03
1801	ALL	353665.5	3793110	NonCancerChronicDerived_Inh	5.71E-03
958	ALL	354198.1	3793268	NonCancerChronicDerived_Inh	5.70E-03
2070	ALL	353636.5	3793285	NonCancerChronicDerived_Inh	5.70E-03
655	ALL	353848.1	3793018	NonCancerChronicDerived_Inh	5.69E-03
784	ALL	353898.1	3793118	NonCancerChronicDerived_Inh	5.69E-03
998	ALL	354248.1	3793318	NonCancerChronicDerived_Inh	5.69E-03
2266	ALL	353606.5	3793405	NonCancerChronicDerived_Inh	5.68E-03
2433	ALL	353591.5	3793525	NonCancerChronicDerived_Inh	5.67E-03
888	ALL	354098.1	3793193	NonCancerChronicDerived_Inh	5.67E-03
938	ALL	354173.1	3793243	NonCancerChronicDerived_Inh	5.66E-03
854	ALL	354048.1	3793168	NonCancerChronicDerived_Inh	5.65E-03
437	ALL	353823.1	3792843	NonCancerChronicDerived_Inh	5.65E-03
2169	ALL	353621.5	3793345	NonCancerChronicDerived_Inh	5.63E-03
819	ALL	353973.1	3793143	NonCancerChronicDerived_Inh	5.61E-03
1423	ALL	353690.5	3792785	NonCancerChronicDerived_Inh	5.61E-03
1771	ALL	353665.5	3793085	NonCancerChronicDerived_Inh	5.60E-03
1279	ALL	353715.5	3792660	NonCancerChronicDerived_Inh	5.59E-03
2414	ALL	353591.5	3793510	NonCancerChronicDerived_Inh	5.59E-03
2242	ALL	353606.5	3793390	NonCancerChronicDerived_Inh	5.57E-03
2045	ALL	353636.5	3793270	NonCancerChronicDerived_Inh	5.57E-03
219	ALL	353798.1	3792668	NonCancerChronicDerived_Inh	5.56E-03
2376	ALL	353591.5	3793480	NonCancerChronicDerived_Inh	5.54E-03
1051	ALL	354298.1	3793393	NonCancerChronicDerived_Inh	5.54E-03
921	ALL	354148.1	3793218	NonCancerChronicDerived_Inh	5.54E-03
2395	ALL	353591.5	3793495	NonCancerChronicDerived_Inh	5.54E-03
2356	ALL	353591.5	3793465	NonCancerChronicDerived_Inh	5.53E-03
2144	ALL	353621.5	3793330	NonCancerChronicDerived_Inh	5.53E-03
1018	ALL	354273.1	3793343	NonCancerChronicDerived_Inh	5.52E-03
719	ALL	353873.1	3793068	NonCancerChronicDerived_Inh	5.51E-03
624	ALL	353848.1	3792993	NonCancerChronicDerived_Inh	5.50E-03
406	ALL	353823.1	3792818	NonCancerChronicDerived_Inh	5.50E-03
1741	ALL	353665.5	3793060	NonCancerChronicDerived_Inh	5.50E-03
820	ALL	353998.1	3793143	NonCancerChronicDerived_Inh	5.49E-03
2334	ALL	353591.5	3793450	NonCancerChronicDerived_Inh	5.48E-03
2218	ALL	353606.5	3793375	NonCancerChronicDerived_Inh	5.46E-03

785	ALL	353923.1	3793118	NonCancerChronicDerived_Inh	5.45E-03
1926	ALL	353640.5	3793235	NonCancerChronicDerived_Inh	5.44E-03
2119	ALL	353621.5	3793315	NonCancerChronicDerived_Inh	5.44E-03
1394	ALL	353690.5	3792760	NonCancerChronicDerived_Inh	5.44E-03
2312	ALL	353591.5	3793435	NonCancerChronicDerived_Inh	5.42E-03
889	ALL	354123.1	3793193	NonCancerChronicDerived_Inh	5.40E-03
855	ALL	354073.1	3793168	NonCancerChronicDerived_Inh	5.40E-03
1712	ALL	353665.5	3793035	NonCancerChronicDerived_Inh	5.39E-03
2486	ALL	353576.5	3793570	NonCancerChronicDerived_Inh	5.36E-03
2094	ALL	353621.5	3793300	NonCancerChronicDerived_Inh	5.35E-03
593	ALL	353848.1	3792968	NonCancerChronicDerived_Inh	5.35E-03
2289	ALL	353591.5	3793420	NonCancerChronicDerived_Inh	5.35E-03
375	ALL	353823.1	3792793	NonCancerChronicDerived_Inh	5.35E-03
821	ALL	354023.1	3793143	NonCancerChronicDerived_Inh	5.34E-03
1683	ALL	353665.5	3793010	NonCancerChronicDerived_Inh	5.33E-03
752	ALL	353898.1	3793093	NonCancerChronicDerived_Inh	5.33E-03
2193	ALL	353606.5	3793360	NonCancerChronicDerived_Inh	5.33E-03
1920	ALL	353640.5	3793210	NonCancerChronicDerived_Inh	5.32E-03
2469	ALL	353576.5	3793555	NonCancerChronicDerived_Inh	5.32E-03
786	ALL	353948.1	3793118	NonCancerChronicDerived_Inh	5.30E-03
687	ALL	353873.1	3793043	NonCancerChronicDerived_Inh	5.28E-03
2451	ALL	353576.5	3793540	NonCancerChronicDerived_Inh	5.28E-03
2069	ALL	353621.5	3793285	NonCancerChronicDerived_Inh	5.27E-03
2265	ALL	353591.5	3793405	NonCancerChronicDerived_Inh	5.27E-03
1035	ALL	354298.1	3793368	NonCancerChronicDerived_Inh	5.26E-03
2432	ALL	353576.5	3793525	NonCancerChronicDerived_Inh	5.24E-03
1654	ALL	353665.5	3792985	NonCancerChronicDerived_Inh	5.22E-03
1365	ALL	353690.5	3792735	NonCancerChronicDerived_Inh	5.22E-03
979	ALL	354248.1	3793293	NonCancerChronicDerived_Inh	5.21E-03
939	ALL	354198.1	3793243	NonCancerChronicDerived_Inh	5.21E-03
959	ALL	354223.1	3793268	NonCancerChronicDerived_Inh	5.21E-03
2168	ALL	353606.5	3793345	NonCancerChronicDerived_Inh	5.20E-03
1890	ALL	353640.5	3793185	NonCancerChronicDerived_Inh	5.20E-03
2413	ALL	353576.5	3793510	NonCancerChronicDerived_Inh	5.20E-03
562	ALL	353848.1	3792943	NonCancerChronicDerived_Inh	5.18E-03
787	ALL	353973.1	3793118	NonCancerChronicDerived_Inh	5.18E-03
2394	ALL	353576.5	3793495	NonCancerChronicDerived_Inh	5.17E-03
2375	ALL	353576.5	3793480	NonCancerChronicDerived_Inh	5.16E-03
922	ALL	354173.1	3793218	NonCancerChronicDerived_Inh	5.16E-03
822	ALL	354048.1	3793143	NonCancerChronicDerived_Inh	5.16E-03
344	ALL	353823.1	3792768	NonCancerChronicDerived_Inh	5.16E-03
2044	ALL	353621.5	3793270	NonCancerChronicDerived_Inh	5.15E-03
856	ALL	354098.1	3793168	NonCancerChronicDerived_Inh	5.15E-03
2355	ALL	353576.5	3793465	NonCancerChronicDerived_Inh	5.14E-03
2241	ALL	353591.5	3793390	NonCancerChronicDerived_Inh	5.13E-03
999	ALL	354273.1	3793318	NonCancerChronicDerived_Inh	5.13E-03
1625	ALL	353665.5	3792960	NonCancerChronicDerived_Inh	5.13E-03

1067	ALL	354323.1	3793418	NonCancerChronicDerived_Inh	5.12E-03
753	ALL	353923.1	3793093	NonCancerChronicDerived_Inh	5.11E-03
2143	ALL	353606.5	3793330	NonCancerChronicDerived_Inh	5.11E-03
720	ALL	353898.1	3793068	NonCancerChronicDerived_Inh	5.10E-03
1860	ALL	353640.5	3793160	NonCancerChronicDerived_Inh	5.10E-03
2333	ALL	353576.5	3793450	NonCancerChronicDerived_Inh	5.06E-03
788	ALL	353998.1	3793118	NonCancerChronicDerived_Inh	5.05E-03
656	ALL	353873.1	3793018	NonCancerChronicDerived_Inh	5.05E-03
1596	ALL	353665.5	3792935	NonCancerChronicDerived_Inh	5.04E-03
890	ALL	354148.1	3793193	NonCancerChronicDerived_Inh	5.04E-03
2118	ALL	353606.5	3793315	NonCancerChronicDerived_Inh	5.02E-03
531	ALL	353848.1	3792918	NonCancerChronicDerived_Inh	5.02E-03
2217	ALL	353591.5	3793375	NonCancerChronicDerived_Inh	5.01E-03
1830	ALL	353640.5	3793135	NonCancerChronicDerived_Inh	4.99E-03
2311	ALL	353576.5	3793435	NonCancerChronicDerived_Inh	4.98E-03
1567	ALL	353665.5	3792910	NonCancerChronicDerived_Inh	4.96E-03
754	ALL	353948.1	3793093	NonCancerChronicDerived_Inh	4.96E-03
1019	ALL	354298.1	3793343	NonCancerChronicDerived_Inh	4.95E-03
2093	ALL	353606.5	3793300	NonCancerChronicDerived_Inh	4.94E-03
823	ALL	354073.1	3793143	NonCancerChronicDerived_Inh	4.94E-03
313	ALL	353823.1	3792743	NonCancerChronicDerived_Inh	4.94E-03
2485	ALL	353561.5	3793570	NonCancerChronicDerived_Inh	4.94E-03
857	ALL	354123.1	3793168	NonCancerChronicDerived_Inh	4.93E-03
1052	ALL	354323.1	3793393	NonCancerChronicDerived_Inh	4.93E-03
2468	ALL	353561.5	3793555	NonCancerChronicDerived_Inh	4.92E-03
2192	ALL	353591.5	3793360	NonCancerChronicDerived_Inh	4.92E-03
1336	ALL	353690.5	3792710	NonCancerChronicDerived_Inh	4.91E-03
789	ALL	354023.1	3793118	NonCancerChronicDerived_Inh	4.91E-03
2288	ALL	353576.5	3793420	NonCancerChronicDerived_Inh	4.90E-03
2450	ALL	353561.5	3793540	NonCancerChronicDerived_Inh	4.90E-03
1800	ALL	353640.5	3793110	NonCancerChronicDerived_Inh	4.90E-03
1538	ALL	353665.5	3792885	NonCancerChronicDerived_Inh	4.88E-03
2431	ALL	353561.5	3793525	NonCancerChronicDerived_Inh	4.87E-03
2068	ALL	353606.5	3793285	NonCancerChronicDerived_Inh	4.87E-03
688	ALL	353898.1	3793043	NonCancerChronicDerived_Inh	4.87E-03
2412	ALL	353561.5	3793510	NonCancerChronicDerived_Inh	4.86E-03
500	ALL	353848.1	3792893	NonCancerChronicDerived_Inh	4.85E-03
625	ALL	353873.1	3792993	NonCancerChronicDerived_Inh	4.85E-03
2393	ALL	353561.5	3793495	NonCancerChronicDerived_Inh	4.83E-03
2167	ALL	353591.5	3793345	NonCancerChronicDerived_Inh	4.83E-03
156	ALL	353773.1	3792618	NonCancerChronicDerived_Inh	4.83E-03
755	ALL	353973.1	3793093	NonCancerChronicDerived_Inh	4.83E-03
721	ALL	353923.1	3793068	NonCancerChronicDerived_Inh	4.82E-03
2264	ALL	353576.5	3793405	NonCancerChronicDerived_Inh	4.82E-03
2374	ALL	353561.5	3793480	NonCancerChronicDerived_Inh	4.81E-03
1770	ALL	353640.5	3793085	NonCancerChronicDerived_Inh	4.80E-03
1925	ALL	353615.5	3793235	NonCancerChronicDerived_Inh	4.80E-03

940	ALL	354223.1	3793243	NonCancerChronicDerived_Inh	4.80E-03
1509	ALL	353665.5	3792860	NonCancerChronicDerived_Inh	4.78E-03
923	ALL	354198.1	3793218	NonCancerChronicDerived_Inh	4.78E-03
2043	ALL	353606.5	3793270	NonCancerChronicDerived_Inh	4.78E-03
960	ALL	354248.1	3793268	NonCancerChronicDerived_Inh	4.77E-03
2354	ALL	353561.5	3793465	NonCancerChronicDerived_Inh	4.77E-03
980	ALL	354273.1	3793293	NonCancerChronicDerived_Inh	4.76E-03
891	ALL	354173.1	3793193	NonCancerChronicDerived_Inh	4.75E-03
790	ALL	354048.1	3793118	NonCancerChronicDerived_Inh	4.75E-03
188	ALL	353798.1	3792643	NonCancerChronicDerived_Inh	4.74E-03
824	ALL	354098.1	3793143	NonCancerChronicDerived_Inh	4.73E-03
2142	ALL	353591.5	3793330	NonCancerChronicDerived_Inh	4.73E-03
2240	ALL	353576.5	3793390	NonCancerChronicDerived_Inh	4.73E-03
469	ALL	353848.1	3792868	NonCancerChronicDerived_Inh	4.72E-03
282	ALL	353823.1	3792718	NonCancerChronicDerived_Inh	4.72E-03
1036	ALL	354323.1	3793368	NonCancerChronicDerived_Inh	4.71E-03
1740	ALL	353640.5	3793060	NonCancerChronicDerived_Inh	4.71E-03
756	ALL	353998.1	3793093	NonCancerChronicDerived_Inh	4.70E-03
594	ALL	353873.1	3792968	NonCancerChronicDerived_Inh	4.70E-03
2332	ALL	353561.5	3793450	NonCancerChronicDerived_Inh	4.70E-03
1919	ALL	353615.5	3793210	NonCancerChronicDerived_Inh	4.69E-03
1480	ALL	353665.5	3792835	NonCancerChronicDerived_Inh	4.67E-03
2117	ALL	353591.5	3793315	NonCancerChronicDerived_Inh	4.64E-03
2216	ALL	353576.5	3793375	NonCancerChronicDerived_Inh	4.64E-03
657	ALL	353898.1	3793018	NonCancerChronicDerived_Inh	4.63E-03
438	ALL	353848.1	3792843	NonCancerChronicDerived_Inh	4.63E-03
1000	ALL	354298.1	3793318	NonCancerChronicDerived_Inh	4.63E-03
858	ALL	354148.1	3793168	NonCancerChronicDerived_Inh	4.62E-03
722	ALL	353948.1	3793068	NonCancerChronicDerived_Inh	4.62E-03
2484	ALL	353546.5	3793570	NonCancerChronicDerived_Inh	4.62E-03
1711	ALL	353640.5	3793035	NonCancerChronicDerived_Inh	4.62E-03
2310	ALL	353561.5	3793435	NonCancerChronicDerived_Inh	4.62E-03
2467	ALL	353546.5	3793555	NonCancerChronicDerived_Inh	4.61E-03
2449	ALL	353546.5	3793540	NonCancerChronicDerived_Inh	4.60E-03
1889	ALL	353615.5	3793185	NonCancerChronicDerived_Inh	4.59E-03
2430	ALL	353546.5	3793525	NonCancerChronicDerived_Inh	4.58E-03
689	ALL	353923.1	3793043	NonCancerChronicDerived_Inh	4.58E-03
2191	ALL	353576.5	3793360	NonCancerChronicDerived_Inh	4.58E-03
791	ALL	354073.1	3793118	NonCancerChronicDerived_Inh	4.57E-03
757	ALL	354023.1	3793093	NonCancerChronicDerived_Inh	4.57E-03
2092	ALL	353591.5	3793300	NonCancerChronicDerived_Inh	4.56E-03
2411	ALL	353546.5	3793510	NonCancerChronicDerived_Inh	4.56E-03
1068	ALL	354348.1	3793418	NonCancerChronicDerived_Inh	4.56E-03
1451	ALL	353665.5	3792810	NonCancerChronicDerived_Inh	4.54E-03
563	ALL	353873.1	3792943	NonCancerChronicDerived_Inh	4.54E-03
2287	ALL	353561.5	3793420	NonCancerChronicDerived_Inh	4.53E-03
825	ALL	354123.1	3793143	NonCancerChronicDerived_Inh	4.53E-03

1682	ALL	353640.5	3793010	NonCancerChronicDerived_Inh	4.53E-03
2392	ALL	353546.5	3793495	NonCancerChronicDerived_Inh	4.53E-03
2166	ALL	353576.5	3793345	NonCancerChronicDerived_Inh	4.51E-03
407	ALL	353848.1	3792818	NonCancerChronicDerived_Inh	4.50E-03
2067	ALL	353591.5	3793285	NonCancerChronicDerived_Inh	4.49E-03
1859	ALL	353615.5	3793160	NonCancerChronicDerived_Inh	4.49E-03
1307	ALL	353690.5	3792685	NonCancerChronicDerived_Inh	4.48E-03
2373	ALL	353546.5	3793480	NonCancerChronicDerived_Inh	4.48E-03
723	ALL	353973.1	3793068	NonCancerChronicDerived_Inh	4.47E-03
1020	ALL	354323.1	3793343	NonCancerChronicDerived_Inh	4.47E-03
251	ALL	353823.1	3792693	NonCancerChronicDerived_Inh	4.45E-03
2263	ALL	353561.5	3793405	NonCancerChronicDerived_Inh	4.45E-03
1653	ALL	353640.5	3792985	NonCancerChronicDerived_Inh	4.44E-03
2141	ALL	353576.5	3793330	NonCancerChronicDerived_Inh	4.44E-03
2042	ALL	353591.5	3793270	NonCancerChronicDerived_Inh	4.43E-03
892	ALL	354198.1	3793193	NonCancerChronicDerived_Inh	4.43E-03
924	ALL	354223.1	3793218	NonCancerChronicDerived_Inh	4.43E-03
626	ALL	353898.1	3792993	NonCancerChronicDerived_Inh	4.43E-03
941	ALL	354248.1	3793243	NonCancerChronicDerived_Inh	4.43E-03
2353	ALL	353546.5	3793465	NonCancerChronicDerived_Inh	4.42E-03
961	ALL	354273.1	3793268	NonCancerChronicDerived_Inh	4.42E-03
758	ALL	354048.1	3793093	NonCancerChronicDerived_Inh	4.41E-03
1053	ALL	354348.1	3793393	NonCancerChronicDerived_Inh	4.41E-03
1422	ALL	353665.5	3792785	NonCancerChronicDerived_Inh	4.41E-03
2239	ALL	353561.5	3793390	NonCancerChronicDerived_Inh	4.39E-03
1829	ALL	353615.5	3793135	NonCancerChronicDerived_Inh	4.39E-03
792	ALL	354098.1	3793118	NonCancerChronicDerived_Inh	4.38E-03
859	ALL	354173.1	3793168	NonCancerChronicDerived_Inh	4.38E-03
532	ALL	353873.1	3792918	NonCancerChronicDerived_Inh	4.37E-03
2331	ALL	353546.5	3793450	NonCancerChronicDerived_Inh	4.37E-03
690	ALL	353948.1	3793043	NonCancerChronicDerived_Inh	4.36E-03
2116	ALL	353576.5	3793315	NonCancerChronicDerived_Inh	4.36E-03
1250	ALL	353715.5	3792635	NonCancerChronicDerived_Inh	4.35E-03
1624	ALL	353640.5	3792960	NonCancerChronicDerived_Inh	4.35E-03
376	ALL	353848.1	3792793	NonCancerChronicDerived_Inh	4.34E-03
724	ALL	353998.1	3793068	NonCancerChronicDerived_Inh	4.34E-03
658	ALL	353923.1	3793018	NonCancerChronicDerived_Inh	4.34E-03
2483	ALL	353531.5	3793570	NonCancerChronicDerived_Inh	4.33E-03
2215	ALL	353561.5	3793375	NonCancerChronicDerived_Inh	4.33E-03
981	ALL	354298.1	3793293	NonCancerChronicDerived_Inh	4.32E-03
2466	ALL	353531.5	3793555	NonCancerChronicDerived_Inh	4.31E-03
2309	ALL	353546.5	3793435	NonCancerChronicDerived_Inh	4.31E-03
2448	ALL	353531.5	3793540	NonCancerChronicDerived_Inh	4.31E-03
1799	ALL	353615.5	3793110	NonCancerChronicDerived_Inh	4.30E-03
2429	ALL	353531.5	3793525	NonCancerChronicDerived_Inh	4.30E-03
2091	ALL	353576.5	3793300	NonCancerChronicDerived_Inh	4.29E-03
2190	ALL	353561.5	3793360	NonCancerChronicDerived_Inh	4.28E-03

2410	ALL	353531.5	3793510	NonCancerChronicDerived_Inh	4.28E-03
1595	ALL	353640.5	3792935	NonCancerChronicDerived_Inh	4.27E-03
2286	ALL	353546.5	3793420	NonCancerChronicDerived_Inh	4.27E-03
595	ALL	353898.1	3792968	NonCancerChronicDerived_Inh	4.27E-03
826	ALL	354148.1	3793143	NonCancerChronicDerived_Inh	4.26E-03
1037	ALL	354348.1	3793368	NonCancerChronicDerived_Inh	4.25E-03
759	ALL	354073.1	3793093	NonCancerChronicDerived_Inh	4.25E-03
2391	ALL	353531.5	3793495	NonCancerChronicDerived_Inh	4.25E-03
1393	ALL	353665.5	3792760	NonCancerChronicDerived_Inh	4.24E-03
2165	ALL	353561.5	3793345	NonCancerChronicDerived_Inh	4.24E-03
2066	ALL	353576.5	3793285	NonCancerChronicDerived_Inh	4.22E-03
2262	ALL	353546.5	3793405	NonCancerChronicDerived_Inh	4.22E-03
1001	ALL	354323.1	3793318	NonCancerChronicDerived_Inh	4.22E-03
1769	ALL	353615.5	3793085	NonCancerChronicDerived_Inh	4.21E-03
2372	ALL	353531.5	3793480	NonCancerChronicDerived_Inh	4.21E-03
501	ALL	353873.1	3792893	NonCancerChronicDerived_Inh	4.21E-03
725	ALL	354023.1	3793068	NonCancerChronicDerived_Inh	4.21E-03
691	ALL	353973.1	3793043	NonCancerChronicDerived_Inh	4.19E-03
1566	ALL	353640.5	3792910	NonCancerChronicDerived_Inh	4.19E-03
793	ALL	354123.1	3793118	NonCancerChronicDerived_Inh	4.19E-03
1918	ALL	353590.5	3793210	NonCancerChronicDerived_Inh	4.19E-03
345	ALL	353848.1	3792768	NonCancerChronicDerived_Inh	4.19E-03
2140	ALL	353561.5	3793330	NonCancerChronicDerived_Inh	4.17E-03
2352	ALL	353531.5	3793465	NonCancerChronicDerived_Inh	4.17E-03
2041	ALL	353576.5	3793270	NonCancerChronicDerived_Inh	4.17E-03
2238	ALL	353546.5	3793390	NonCancerChronicDerived_Inh	4.16E-03
627	ALL	353923.1	3792993	NonCancerChronicDerived_Inh	4.14E-03
893	ALL	354223.1	3793193	NonCancerChronicDerived_Inh	4.13E-03
1739	ALL	353615.5	3793060	NonCancerChronicDerived_Inh	4.13E-03
659	ALL	353948.1	3793018	NonCancerChronicDerived_Inh	4.12E-03
2330	ALL	353531.5	3793450	NonCancerChronicDerived_Inh	4.12E-03
925	ALL	354248.1	3793218	NonCancerChronicDerived_Inh	4.11E-03
2115	ALL	353561.5	3793315	NonCancerChronicDerived_Inh	4.11E-03
942	ALL	354273.1	3793243	NonCancerChronicDerived_Inh	4.11E-03
1537	ALL	353640.5	3792885	NonCancerChronicDerived_Inh	4.10E-03
1888	ALL	353590.5	3793185	NonCancerChronicDerived_Inh	4.10E-03
860	ALL	354198.1	3793168	NonCancerChronicDerived_Inh	4.10E-03
564	ALL	353898.1	3792943	NonCancerChronicDerived_Inh	4.10E-03
2214	ALL	353546.5	3793375	NonCancerChronicDerived_Inh	4.10E-03
220	ALL	353823.1	3792668	NonCancerChronicDerived_Inh	4.09E-03
1069	ALL	354373.1	3793418	NonCancerChronicDerived_Inh	4.08E-03
470	ALL	353873.1	3792868	NonCancerChronicDerived_Inh	4.08E-03
760	ALL	354098.1	3793093	NonCancerChronicDerived_Inh	4.08E-03
2308	ALL	353531.5	3793435	NonCancerChronicDerived_Inh	4.07E-03
726	ALL	354048.1	3793068	NonCancerChronicDerived_Inh	4.07E-03
2482	ALL	353516.5	3793570	NonCancerChronicDerived_Inh	4.07E-03
1021	ALL	354348.1	3793343	NonCancerChronicDerived_Inh	4.07E-03

2090	ALL	353561.5	3793300	NonCancerChronicDerived_Inh	4.05E-03
692	ALL	353998.1	3793043	NonCancerChronicDerived_Inh	4.05E-03
2465	ALL	353516.5	3793555	NonCancerChronicDerived_Inh	4.05E-03
2189	ALL	353546.5	3793360	NonCancerChronicDerived_Inh	4.04E-03
1710	ALL	353615.5	3793035	NonCancerChronicDerived_Inh	4.04E-03
962	ALL	354298.1	3793268	NonCancerChronicDerived_Inh	4.04E-03
2447	ALL	353516.5	3793540	NonCancerChronicDerived_Inh	4.04E-03
827	ALL	354173.1	3793143	NonCancerChronicDerived_Inh	4.04E-03
2285	ALL	353531.5	3793420	NonCancerChronicDerived_Inh	4.03E-03
1364	ALL	353665.5	3792735	NonCancerChronicDerived_Inh	4.03E-03
2428	ALL	353516.5	3793525	NonCancerChronicDerived_Inh	4.03E-03
1858	ALL	353590.5	3793160	NonCancerChronicDerived_Inh	4.01E-03
2409	ALL	353516.5	3793510	NonCancerChronicDerived_Inh	4.01E-03
1508	ALL	353640.5	3792860	NonCancerChronicDerived_Inh	4.01E-03
2371	ALL	353516.5	3793480	NonCancerChronicDerived_Inh	4.01E-03
2390	ALL	353516.5	3793495	NonCancerChronicDerived_Inh	4.00E-03
314	ALL	353848.1	3792743	NonCancerChronicDerived_Inh	3.99E-03
439	ALL	353873.1	3792843	NonCancerChronicDerived_Inh	3.99E-03
2261	ALL	353531.5	3793405	NonCancerChronicDerived_Inh	3.99E-03
2065	ALL	353561.5	3793285	NonCancerChronicDerived_Inh	3.99E-03
2351	ALL	353516.5	3793465	NonCancerChronicDerived_Inh	3.99E-03
2164	ALL	353546.5	3793345	NonCancerChronicDerived_Inh	3.99E-03
1054	ALL	354373.1	3793393	NonCancerChronicDerived_Inh	3.97E-03
596	ALL	353923.1	3792968	NonCancerChronicDerived_Inh	3.97E-03
982	ALL	354323.1	3793293	NonCancerChronicDerived_Inh	3.97E-03
660	ALL	353973.1	3793018	NonCancerChronicDerived_Inh	3.96E-03
1681	ALL	353615.5	3793010	NonCancerChronicDerived_Inh	3.96E-03
794	ALL	354148.1	3793118	NonCancerChronicDerived_Inh	3.95E-03
533	ALL	353898.1	3792918	NonCancerChronicDerived_Inh	3.94E-03
2237	ALL	353531.5	3793390	NonCancerChronicDerived_Inh	3.94E-03
2040	ALL	353561.5	3793270	NonCancerChronicDerived_Inh	3.93E-03
2329	ALL	353516.5	3793450	NonCancerChronicDerived_Inh	3.93E-03
2139	ALL	353546.5	3793330	NonCancerChronicDerived_Inh	3.93E-03
727	ALL	354073.1	3793068	NonCancerChronicDerived_Inh	3.92E-03
1828	ALL	353590.5	3793135	NonCancerChronicDerived_Inh	3.92E-03
693	ALL	354023.1	3793043	NonCancerChronicDerived_Inh	3.92E-03
628	ALL	353948.1	3792993	NonCancerChronicDerived_Inh	3.92E-03
1278	ALL	353690.5	3792660	NonCancerChronicDerived_Inh	3.91E-03
1479	ALL	353640.5	3792835	NonCancerChronicDerived_Inh	3.89E-03
761	ALL	354123.1	3793093	NonCancerChronicDerived_Inh	3.89E-03
2446	ALL	353501.5	3793540	NonCancerChronicDerived_Inh	3.89E-03
2427	ALL	353501.5	3793525	NonCancerChronicDerived_Inh	3.88E-03
1652	ALL	353615.5	3792985	NonCancerChronicDerived_Inh	3.88E-03
2213	ALL	353531.5	3793375	NonCancerChronicDerived_Inh	3.88E-03
408	ALL	353873.1	3792818	NonCancerChronicDerived_Inh	3.88E-03
2464	ALL	353501.5	3793555	NonCancerChronicDerived_Inh	3.88E-03
2307	ALL	353516.5	3793435	NonCancerChronicDerived_Inh	3.87E-03

2114	ALL	353546.5	3793315	NonCancerChronicDerived_Inh	3.87E-03
2481	ALL	353501.5	3793570	NonCancerChronicDerived_Inh	3.87E-03
2408	ALL	353501.5	3793510	NonCancerChronicDerived_Inh	3.87E-03
1002	ALL	354348.1	3793318	NonCancerChronicDerived_Inh	3.86E-03
1038	ALL	354373.1	3793368	NonCancerChronicDerived_Inh	3.85E-03
894	ALL	354248.1	3793193	NonCancerChronicDerived_Inh	3.85E-03
2389	ALL	353501.5	3793495	NonCancerChronicDerived_Inh	3.85E-03
2370	ALL	353501.5	3793480	NonCancerChronicDerived_Inh	3.85E-03
1798	ALL	353590.5	3793110	NonCancerChronicDerived_Inh	3.84E-03
861	ALL	354223.1	3793168	NonCancerChronicDerived_Inh	3.84E-03
926	ALL	354273.1	3793218	NonCancerChronicDerived_Inh	3.83E-03
2284	ALL	353516.5	3793420	NonCancerChronicDerived_Inh	3.82E-03
2188	ALL	353531.5	3793360	NonCancerChronicDerived_Inh	3.82E-03
661	ALL	353998.1	3793018	NonCancerChronicDerived_Inh	3.82E-03
2350	ALL	353501.5	3793465	NonCancerChronicDerived_Inh	3.82E-03
2089	ALL	353546.5	3793300	NonCancerChronicDerived_Inh	3.81E-03
283	ALL	353848.1	3792718	NonCancerChronicDerived_Inh	3.81E-03
828	ALL	354198.1	3793143	NonCancerChronicDerived_Inh	3.80E-03
1623	ALL	353615.5	3792960	NonCancerChronicDerived_Inh	3.80E-03
565	ALL	353923.1	3792943	NonCancerChronicDerived_Inh	3.80E-03
694	ALL	354048.1	3793043	NonCancerChronicDerived_Inh	3.79E-03
502	ALL	353898.1	3792893	NonCancerChronicDerived_Inh	3.79E-03
943	ALL	354298.1	3793243	NonCancerChronicDerived_Inh	3.78E-03
2260	ALL	353516.5	3793405	NonCancerChronicDerived_Inh	3.77E-03
1335	ALL	353665.5	3792710	NonCancerChronicDerived_Inh	3.77E-03
1450	ALL	353640.5	3792810	NonCancerChronicDerived_Inh	3.77E-03
728	ALL	354098.1	3793068	NonCancerChronicDerived_Inh	3.77E-03
2426	ALL	353486.5	3793525	NonCancerChronicDerived_Inh	3.77E-03
2163	ALL	353531.5	3793345	NonCancerChronicDerived_Inh	3.76E-03
2445	ALL	353486.5	3793540	NonCancerChronicDerived_Inh	3.76E-03
795	ALL	354173.1	3793118	NonCancerChronicDerived_Inh	3.76E-03
1768	ALL	353590.5	3793085	NonCancerChronicDerived_Inh	3.76E-03
157	ALL	353798.1	3792618	NonCancerChronicDerived_Inh	3.76E-03
2064	ALL	353546.5	3793285	NonCancerChronicDerived_Inh	3.75E-03
629	ALL	353973.1	3792993	NonCancerChronicDerived_Inh	3.75E-03
2407	ALL	353486.5	3793510	NonCancerChronicDerived_Inh	3.75E-03
597	ALL	353948.1	3792968	NonCancerChronicDerived_Inh	3.74E-03
2463	ALL	353486.5	3793555	NonCancerChronicDerived_Inh	3.74E-03
2328	ALL	353501.5	3793450	NonCancerChronicDerived_Inh	3.74E-03
963	ALL	354323.1	3793268	NonCancerChronicDerived_Inh	3.74E-03
2388	ALL	353486.5	3793495	NonCancerChronicDerived_Inh	3.73E-03
2236	ALL	353516.5	3793390	NonCancerChronicDerived_Inh	3.72E-03
1594	ALL	353615.5	3792935	NonCancerChronicDerived_Inh	3.72E-03
2480	ALL	353486.5	3793570	NonCancerChronicDerived_Inh	3.72E-03
377	ALL	353873.1	3792793	NonCancerChronicDerived_Inh	3.72E-03
2138	ALL	353531.5	3793330	NonCancerChronicDerived_Inh	3.71E-03
2369	ALL	353486.5	3793480	NonCancerChronicDerived_Inh	3.71E-03

2039	ALL	353546.5	3793270	NonCancerChronicDerived_Inh	3.70E-03
1917	ALL	353565.5	3793210	NonCancerChronicDerived_Inh	3.70E-03
662	ALL	354023.1	3793018	NonCancerChronicDerived_Inh	3.69E-03
1022	ALL	354373.1	3793343	NonCancerChronicDerived_Inh	3.69E-03
1070	ALL	354398.1	3793418	NonCancerChronicDerived_Inh	3.68E-03
2496	ALL	353486.5	3793585	NonCancerChronicDerived_Inh	3.68E-03
762	ALL	354148.1	3793093	NonCancerChronicDerived_Inh	3.68E-03
1738	ALL	353590.5	3793060	NonCancerChronicDerived_Inh	3.67E-03
2306	ALL	353501.5	3793435	NonCancerChronicDerived_Inh	3.67E-03
2212	ALL	353516.5	3793375	NonCancerChronicDerived_Inh	3.67E-03
471	ALL	353898.1	3792868	NonCancerChronicDerived_Inh	3.66E-03
2462	ALL	353471.5	3793555	NonCancerChronicDerived_Inh	3.66E-03
983	ALL	354348.1	3793293	NonCancerChronicDerived_Inh	3.66E-03
2349	ALL	353486.5	3793465	NonCancerChronicDerived_Inh	3.66E-03
2026	ALL	353546.5	3793255	NonCancerChronicDerived_Inh	3.66E-03
695	ALL	354073.1	3793043	NonCancerChronicDerived_Inh	3.66E-03
2113	ALL	353531.5	3793315	NonCancerChronicDerived_Inh	3.66E-03
2444	ALL	353471.5	3793540	NonCancerChronicDerived_Inh	3.65E-03
2479	ALL	353471.5	3793570	NonCancerChronicDerived_Inh	3.65E-03
2425	ALL	353471.5	3793525	NonCancerChronicDerived_Inh	3.64E-03
534	ALL	353923.1	3792918	NonCancerChronicDerived_Inh	3.64E-03
2406	ALL	353471.5	3793510	NonCancerChronicDerived_Inh	3.64E-03
1421	ALL	353640.5	3792785	NonCancerChronicDerived_Inh	3.64E-03
1887	ALL	353565.5	3793185	NonCancerChronicDerived_Inh	3.64E-03
1565	ALL	353615.5	3792910	NonCancerChronicDerived_Inh	3.63E-03
2387	ALL	353471.5	3793495	NonCancerChronicDerived_Inh	3.63E-03
2283	ALL	353501.5	3793420	NonCancerChronicDerived_Inh	3.62E-03
2187	ALL	353516.5	3793360	NonCancerChronicDerived_Inh	3.62E-03
189	ALL	353823.1	3792643	NonCancerChronicDerived_Inh	3.62E-03
2368	ALL	353471.5	3793480	NonCancerChronicDerived_Inh	3.61E-03
2495	ALL	353471.5	3793585	NonCancerChronicDerived_Inh	3.61E-03
630	ALL	353998.1	3792993	NonCancerChronicDerived_Inh	3.61E-03
1857	ALL	353565.5	3793160	NonCancerChronicDerived_Inh	3.61E-03
729	ALL	354123.1	3793068	NonCancerChronicDerived_Inh	3.60E-03
252	ALL	353848.1	3792693	NonCancerChronicDerived_Inh	3.60E-03
2088	ALL	353531.5	3793300	NonCancerChronicDerived_Inh	3.60E-03
895	ALL	354273.1	3793193	NonCancerChronicDerived_Inh	3.60E-03
862	ALL	354248.1	3793168	NonCancerChronicDerived_Inh	3.59E-03
1709	ALL	353590.5	3793035	NonCancerChronicDerived_Inh	3.59E-03
2478	ALL	353456.5	3793570	NonCancerChronicDerived_Inh	3.59E-03
2461	ALL	353456.5	3793555	NonCancerChronicDerived_Inh	3.59E-03
1055	ALL	354398.1	3793393	NonCancerChronicDerived_Inh	3.59E-03
346	ALL	353873.1	3792768	NonCancerChronicDerived_Inh	3.59E-03
2327	ALL	353486.5	3793450	NonCancerChronicDerived_Inh	3.57E-03
566	ALL	353948.1	3792943	NonCancerChronicDerived_Inh	3.57E-03
829	ALL	354223.1	3793143	NonCancerChronicDerived_Inh	3.57E-03
663	ALL	354048.1	3793018	NonCancerChronicDerived_Inh	3.57E-03

2259	ALL	353501.5	3793405	NonCancerChronicDerived_Inh	3.57E-03
2494	ALL	353456.5	3793585	NonCancerChronicDerived_Inh	3.57E-03
598	ALL	353973.1	3792968	NonCancerChronicDerived_Inh	3.57E-03
2162	ALL	353516.5	3793345	NonCancerChronicDerived_Inh	3.57E-03
440	ALL	353898.1	3792843	NonCancerChronicDerived_Inh	3.57E-03
2348	ALL	353471.5	3793465	NonCancerChronicDerived_Inh	3.56E-03
2443	ALL	353456.5	3793540	NonCancerChronicDerived_Inh	3.56E-03
796	ALL	354198.1	3793118	NonCancerChronicDerived_Inh	3.55E-03
2424	ALL	353456.5	3793525	NonCancerChronicDerived_Inh	3.55E-03
2477	ALL	353441.5	3793570	NonCancerChronicDerived_Inh	3.55E-03
2493	ALL	353441.5	3793585	NonCancerChronicDerived_Inh	3.55E-03
1536	ALL	353615.5	3792885	NonCancerChronicDerived_Inh	3.54E-03
927	ALL	354298.1	3793218	NonCancerChronicDerived_Inh	3.54E-03
2063	ALL	353531.5	3793285	NonCancerChronicDerived_Inh	3.54E-03
2405	ALL	353456.5	3793510	NonCancerChronicDerived_Inh	3.54E-03
2460	ALL	353441.5	3793555	NonCancerChronicDerived_Inh	3.53E-03
1827	ALL	353565.5	3793135	NonCancerChronicDerived_Inh	3.53E-03
1003	ALL	354373.1	3793318	NonCancerChronicDerived_Inh	3.53E-03
2235	ALL	353501.5	3793390	NonCancerChronicDerived_Inh	3.52E-03
2386	ALL	353456.5	3793495	NonCancerChronicDerived_Inh	3.52E-03
763	ALL	354173.1	3793093	NonCancerChronicDerived_Inh	3.52E-03
944	ALL	354323.1	3793243	NonCancerChronicDerived_Inh	3.52E-03
1680	ALL	353590.5	3793010	NonCancerChronicDerived_Inh	3.52E-03
2137	ALL	353516.5	3793330	NonCancerChronicDerived_Inh	3.52E-03
696	ALL	354098.1	3793043	NonCancerChronicDerived_Inh	3.52E-03
2442	ALL	353441.5	3793540	NonCancerChronicDerived_Inh	3.50E-03
2367	ALL	353456.5	3793480	NonCancerChronicDerived_Inh	3.50E-03
2038	ALL	353531.5	3793270	NonCancerChronicDerived_Inh	3.50E-03
1039	ALL	354398.1	3793368	NonCancerChronicDerived_Inh	3.49E-03
2305	ALL	353486.5	3793435	NonCancerChronicDerived_Inh	3.49E-03
503	ALL	353923.1	3792893	NonCancerChronicDerived_Inh	3.49E-03
631	ALL	354023.1	3792993	NonCancerChronicDerived_Inh	3.48E-03
1392	ALL	353640.5	3792760	NonCancerChronicDerived_Inh	3.48E-03
2423	ALL	353441.5	3793525	NonCancerChronicDerived_Inh	3.48E-03
2211	ALL	353501.5	3793375	NonCancerChronicDerived_Inh	3.48E-03
2326	ALL	353471.5	3793450	NonCancerChronicDerived_Inh	3.47E-03
2112	ALL	353516.5	3793315	NonCancerChronicDerived_Inh	3.47E-03
964	ALL	354348.1	3793268	NonCancerChronicDerived_Inh	3.47E-03
2404	ALL	353441.5	3793510	NonCancerChronicDerived_Inh	3.46E-03
2025	ALL	353531.5	3793255	NonCancerChronicDerived_Inh	3.46E-03
1797	ALL	353565.5	3793110	NonCancerChronicDerived_Inh	3.46E-03
409	ALL	353898.1	3792818	NonCancerChronicDerived_Inh	3.45E-03
1507	ALL	353615.5	3792860	NonCancerChronicDerived_Inh	3.45E-03
2347	ALL	353456.5	3793465	NonCancerChronicDerived_Inh	3.45E-03
664	ALL	354073.1	3793018	NonCancerChronicDerived_Inh	3.45E-03
1651	ALL	353590.5	3792985	NonCancerChronicDerived_Inh	3.45E-03
1306	ALL	353665.5	3792685	NonCancerChronicDerived_Inh	3.44E-03

730	ALL	354148.1	3793068	NonCancerChronicDerived_Inh	3.44E-03
2492	ALL	353426.5	3793585	NonCancerChronicDerived_Inh	3.44E-03
2282	ALL	353486.5	3793420	NonCancerChronicDerived_Inh	3.44E-03
2476	ALL	353426.5	3793570	NonCancerChronicDerived_Inh	3.43E-03
2385	ALL	353441.5	3793495	NonCancerChronicDerived_Inh	3.43E-03
2186	ALL	353501.5	3793360	NonCancerChronicDerived_Inh	3.43E-03
1916	ALL	353540.5	3793210	NonCancerChronicDerived_Inh	3.42E-03
599	ALL	353998.1	3792968	NonCancerChronicDerived_Inh	3.42E-03
535	ALL	353948.1	3792918	NonCancerChronicDerived_Inh	3.42E-03
2459	ALL	353426.5	3793555	NonCancerChronicDerived_Inh	3.42E-03
2087	ALL	353516.5	3793300	NonCancerChronicDerived_Inh	3.41E-03
315	ALL	353873.1	3792743	NonCancerChronicDerived_Inh	3.41E-03
567	ALL	353973.1	3792943	NonCancerChronicDerived_Inh	3.40E-03
2441	ALL	353426.5	3793540	NonCancerChronicDerived_Inh	3.39E-03
2366	ALL	353441.5	3793480	NonCancerChronicDerived_Inh	3.39E-03
2258	ALL	353486.5	3793405	NonCancerChronicDerived_Inh	3.39E-03
1767	ALL	353565.5	3793085	NonCancerChronicDerived_Inh	3.38E-03
2304	ALL	353471.5	3793435	NonCancerChronicDerived_Inh	3.38E-03
2161	ALL	353501.5	3793345	NonCancerChronicDerived_Inh	3.38E-03
697	ALL	354123.1	3793043	NonCancerChronicDerived_Inh	3.37E-03
632	ALL	354048.1	3792993	NonCancerChronicDerived_Inh	3.37E-03
863	ALL	354273.1	3793168	NonCancerChronicDerived_Inh	3.37E-03
1622	ALL	353590.5	3792960	NonCancerChronicDerived_Inh	3.37E-03
472	ALL	353923.1	3792868	NonCancerChronicDerived_Inh	3.37E-03
2422	ALL	353426.5	3793525	NonCancerChronicDerived_Inh	3.37E-03
125	ALL	353773.1	3792593	NonCancerChronicDerived_Inh	3.37E-03
984	ALL	354373.1	3793293	NonCancerChronicDerived_Inh	3.36E-03
797	ALL	354223.1	3793118	NonCancerChronicDerived_Inh	3.36E-03
1023	ALL	354398.1	3793343	NonCancerChronicDerived_Inh	3.36E-03
2062	ALL	353516.5	3793285	NonCancerChronicDerived_Inh	3.36E-03
830	ALL	354248.1	3793143	NonCancerChronicDerived_Inh	3.36E-03
2325	ALL	353456.5	3793450	NonCancerChronicDerived_Inh	3.35E-03
1071	ALL	354423.1	3793418	NonCancerChronicDerived_Inh	3.34E-03
2234	ALL	353486.5	3793390	NonCancerChronicDerived_Inh	3.34E-03
1478	ALL	353615.5	3792835	NonCancerChronicDerived_Inh	3.34E-03
2136	ALL	353501.5	3793330	NonCancerChronicDerived_Inh	3.34E-03
1221	ALL	353715.5	3792610	NonCancerChronicDerived_Inh	3.34E-03
221	ALL	353848.1	3792668	NonCancerChronicDerived_Inh	3.33E-03
2403	ALL	353426.5	3793510	NonCancerChronicDerived_Inh	3.33E-03
764	ALL	354198.1	3793093	NonCancerChronicDerived_Inh	3.33E-03
1886	ALL	353540.5	3793185	NonCancerChronicDerived_Inh	3.33E-03
896	ALL	354298.1	3793193	NonCancerChronicDerived_Inh	3.33E-03
2037	ALL	353516.5	3793270	NonCancerChronicDerived_Inh	3.32E-03
665	ALL	354098.1	3793018	NonCancerChronicDerived_Inh	3.32E-03
2475	ALL	353411.5	3793570	NonCancerChronicDerived_Inh	3.32E-03
2491	ALL	353411.5	3793585	NonCancerChronicDerived_Inh	3.32E-03
2346	ALL	353441.5	3793465	NonCancerChronicDerived_Inh	3.31E-03

928	ALL	354323.1	3793218	NonCancerChronicDerived_Inh	3.31E-03
1737	ALL	353565.5	3793060	NonCancerChronicDerived_Inh	3.31E-03
2210	ALL	353486.5	3793375	NonCancerChronicDerived_Inh	3.30E-03
2384	ALL	353426.5	3793495	NonCancerChronicDerived_Inh	3.30E-03
1363	ALL	353640.5	3792735	NonCancerChronicDerived_Inh	3.30E-03
378	ALL	353898.1	3792793	NonCancerChronicDerived_Inh	3.30E-03
2458	ALL	353411.5	3793555	NonCancerChronicDerived_Inh	3.29E-03
2111	ALL	353501.5	3793315	NonCancerChronicDerived_Inh	3.29E-03
2281	ALL	353471.5	3793420	NonCancerChronicDerived_Inh	3.29E-03
1593	ALL	353590.5	3792935	NonCancerChronicDerived_Inh	3.29E-03
600	ALL	354023.1	3792968	NonCancerChronicDerived_Inh	3.29E-03
2024	ALL	353516.5	3793255	NonCancerChronicDerived_Inh	3.28E-03
945	ALL	354348.1	3793243	NonCancerChronicDerived_Inh	3.28E-03
1249	ALL	353690.5	3792635	NonCancerChronicDerived_Inh	3.28E-03
731	ALL	354173.1	3793068	NonCancerChronicDerived_Inh	3.27E-03
504	ALL	353948.1	3792893	NonCancerChronicDerived_Inh	3.27E-03
1056	ALL	354423.1	3793393	NonCancerChronicDerived_Inh	3.26E-03
441	ALL	353923.1	3792843	NonCancerChronicDerived_Inh	3.26E-03
633	ALL	354073.1	3792993	NonCancerChronicDerived_Inh	3.26E-03
2303	ALL	353456.5	3793435	NonCancerChronicDerived_Inh	3.26E-03
2185	ALL	353486.5	3793360	NonCancerChronicDerived_Inh	3.26E-03
2440	ALL	353411.5	3793540	NonCancerChronicDerived_Inh	3.25E-03
284	ALL	353873.1	3792718	NonCancerChronicDerived_Inh	3.25E-03
568	ALL	353998.1	3792943	NonCancerChronicDerived_Inh	3.25E-03
2365	ALL	353426.5	3793480	NonCancerChronicDerived_Inh	3.25E-03
2086	ALL	353501.5	3793300	NonCancerChronicDerived_Inh	3.24E-03
536	ALL	353973.1	3792918	NonCancerChronicDerived_Inh	3.24E-03
1004	ALL	354398.1	3793318	NonCancerChronicDerived_Inh	3.23E-03
1708	ALL	353565.5	3793035	NonCancerChronicDerived_Inh	3.23E-03
698	ALL	354148.1	3793043	NonCancerChronicDerived_Inh	3.23E-03
1449	ALL	353615.5	3792810	NonCancerChronicDerived_Inh	3.23E-03
2257	ALL	353471.5	3793405	NonCancerChronicDerived_Inh	3.22E-03
1856	ALL	353540.5	3793160	NonCancerChronicDerived_Inh	3.22E-03
2421	ALL	353411.5	3793525	NonCancerChronicDerived_Inh	3.22E-03
2324	ALL	353441.5	3793450	NonCancerChronicDerived_Inh	3.22E-03
2490	ALL	353396.5	3793585	NonCancerChronicDerived_Inh	3.21E-03
1564	ALL	353590.5	3792910	NonCancerChronicDerived_Inh	3.21E-03
2160	ALL	353486.5	3793345	NonCancerChronicDerived_Inh	3.21E-03
965	ALL	354373.1	3793268	NonCancerChronicDerived_Inh	3.20E-03
2474	ALL	353396.5	3793570	NonCancerChronicDerived_Inh	3.20E-03
2061	ALL	353501.5	3793285	NonCancerChronicDerived_Inh	3.19E-03
347	ALL	353898.1	3792768	NonCancerChronicDerived_Inh	3.19E-03
1040	ALL	354423.1	3793368	NonCancerChronicDerived_Inh	3.19E-03
2345	ALL	353426.5	3793465	NonCancerChronicDerived_Inh	3.18E-03
666	ALL	354123.1	3793018	NonCancerChronicDerived_Inh	3.18E-03
2233	ALL	353471.5	3793390	NonCancerChronicDerived_Inh	3.18E-03
2402	ALL	353411.5	3793510	NonCancerChronicDerived_Inh	3.18E-03

765	ALL	354223.1	3793093	NonCancerChronicDerived_Inh	3.18E-03
2135	ALL	353486.5	3793330	NonCancerChronicDerived_Inh	3.17E-03
2280	ALL	353456.5	3793420	NonCancerChronicDerived_Inh	3.17E-03
2457	ALL	353396.5	3793555	NonCancerChronicDerived_Inh	3.17E-03
601	ALL	354048.1	3792968	NonCancerChronicDerived_Inh	3.16E-03
1679	ALL	353565.5	3793010	NonCancerChronicDerived_Inh	3.16E-03
798	ALL	354248.1	3793118	NonCancerChronicDerived_Inh	3.16E-03
1826	ALL	353540.5	3793135	NonCancerChronicDerived_Inh	3.16E-03
2036	ALL	353501.5	3793270	NonCancerChronicDerived_Inh	3.15E-03
831	ALL	354273.1	3793143	NonCancerChronicDerived_Inh	3.15E-03
1915	ALL	353515.5	3793210	NonCancerChronicDerived_Inh	3.15E-03
410	ALL	353923.1	3792818	NonCancerChronicDerived_Inh	3.15E-03
473	ALL	353948.1	3792868	NonCancerChronicDerived_Inh	3.15E-03
2383	ALL	353411.5	3793495	NonCancerChronicDerived_Inh	3.14E-03
2209	ALL	353471.5	3793375	NonCancerChronicDerived_Inh	3.14E-03
634	ALL	354098.1	3792993	NonCancerChronicDerived_Inh	3.13E-03
864	ALL	354298.1	3793168	NonCancerChronicDerived_Inh	3.13E-03
2110	ALL	353486.5	3793315	NonCancerChronicDerived_Inh	3.13E-03
1796	ALL	353540.5	3793110	NonCancerChronicDerived_Inh	3.13E-03
1535	ALL	353590.5	3792885	NonCancerChronicDerived_Inh	3.13E-03
2302	ALL	353441.5	3793435	NonCancerChronicDerived_Inh	3.12E-03
897	ALL	354323.1	3793193	NonCancerChronicDerived_Inh	3.12E-03
2439	ALL	353396.5	3793540	NonCancerChronicDerived_Inh	3.12E-03
569	ALL	354023.1	3792943	NonCancerChronicDerived_Inh	3.12E-03
2023	ALL	353501.5	3793255	NonCancerChronicDerived_Inh	3.12E-03
2489	ALL	353381.5	3793585	NonCancerChronicDerived_Inh	3.11E-03
2364	ALL	353411.5	3793480	NonCancerChronicDerived_Inh	3.11E-03
929	ALL	354348.1	3793218	NonCancerChronicDerived_Inh	3.11E-03
732	ALL	354198.1	3793068	NonCancerChronicDerived_Inh	3.11E-03
158	ALL	353823.1	3792618	NonCancerChronicDerived_Inh	3.10E-03
505	ALL	353973.1	3792893	NonCancerChronicDerived_Inh	3.10E-03
1420	ALL	353615.5	3792785	NonCancerChronicDerived_Inh	3.10E-03
537	ALL	353998.1	3792918	NonCancerChronicDerived_Inh	3.10E-03
985	ALL	354398.1	3793293	NonCancerChronicDerived_Inh	3.10E-03
2184	ALL	353471.5	3793360	NonCancerChronicDerived_Inh	3.10E-03
1650	ALL	353565.5	3792985	NonCancerChronicDerived_Inh	3.09E-03
1024	ALL	354423.1	3793343	NonCancerChronicDerived_Inh	3.09E-03
2085	ALL	353486.5	3793300	NonCancerChronicDerived_Inh	3.09E-03
2256	ALL	353456.5	3793405	NonCancerChronicDerived_Inh	3.08E-03
253	ALL	353873.1	3792693	NonCancerChronicDerived_Inh	3.08E-03
1766	ALL	353540.5	3793085	NonCancerChronicDerived_Inh	3.08E-03
2323	ALL	353426.5	3793450	NonCancerChronicDerived_Inh	3.08E-03
1334	ALL	353640.5	3792710	NonCancerChronicDerived_Inh	3.08E-03
2420	ALL	353396.5	3793525	NonCancerChronicDerived_Inh	3.08E-03
699	ALL	354173.1	3793043	NonCancerChronicDerived_Inh	3.07E-03
1885	ALL	353515.5	3793185	NonCancerChronicDerived_Inh	3.07E-03
1277	ALL	353665.5	3792660	NonCancerChronicDerived_Inh	3.07E-03

2473	ALL	353381.5	3793570	NonCancerChronicDerived_Inh	3.07E-03
2159	ALL	353471.5	3793345	NonCancerChronicDerived_Inh	3.06E-03
2279	ALL	353441.5	3793420	NonCancerChronicDerived_Inh	3.05E-03
946	ALL	354373.1	3793243	NonCancerChronicDerived_Inh	3.05E-03
2344	ALL	353411.5	3793465	NonCancerChronicDerived_Inh	3.05E-03
602	ALL	354073.1	3792968	NonCancerChronicDerived_Inh	3.05E-03
2060	ALL	353486.5	3793285	NonCancerChronicDerived_Inh	3.04E-03
667	ALL	354148.1	3793018	NonCancerChronicDerived_Inh	3.04E-03
2401	ALL	353396.5	3793510	NonCancerChronicDerived_Inh	3.04E-03
2232	ALL	353456.5	3793390	NonCancerChronicDerived_Inh	3.04E-03
1506	ALL	353590.5	3792860	NonCancerChronicDerived_Inh	3.03E-03
2456	ALL	353381.5	3793555	NonCancerChronicDerived_Inh	3.03E-03
316	ALL	353898.1	3792743	NonCancerChronicDerived_Inh	3.03E-03
442	ALL	353948.1	3792843	NonCancerChronicDerived_Inh	3.03E-03
190	ALL	353848.1	3792643	NonCancerChronicDerived_Inh	3.02E-03
2134	ALL	353471.5	3793330	NonCancerChronicDerived_Inh	3.02E-03
1621	ALL	353565.5	3792960	NonCancerChronicDerived_Inh	3.02E-03
1736	ALL	353540.5	3793060	NonCancerChronicDerived_Inh	3.02E-03
635	ALL	354123.1	3792993	NonCancerChronicDerived_Inh	3.01E-03
1072	ALL	354448.1	3793418	NonCancerChronicDerived_Inh	3.01E-03
379	ALL	353923.1	3792793	NonCancerChronicDerived_Inh	3.01E-03
2035	ALL	353486.5	3793270	NonCancerChronicDerived_Inh	3.00E-03
570	ALL	354048.1	3792943	NonCancerChronicDerived_Inh	3.00E-03
766	ALL	354248.1	3793093	NonCancerChronicDerived_Inh	3.00E-03
2382	ALL	353396.5	3793495	NonCancerChronicDerived_Inh	3.00E-03
1855	ALL	353515.5	3793160	NonCancerChronicDerived_Inh	2.99E-03
2208	ALL	353456.5	3793375	NonCancerChronicDerived_Inh	2.99E-03
2301	ALL	353426.5	3793435	NonCancerChronicDerived_Inh	2.99E-03
2438	ALL	353381.5	3793540	NonCancerChronicDerived_Inh	2.99E-03
1005	ALL	354423.1	3793318	NonCancerChronicDerived_Inh	2.99E-03
126	ALL	353798.1	3792593	NonCancerChronicDerived_Inh	2.98E-03
2109	ALL	353471.5	3793315	NonCancerChronicDerived_Inh	2.98E-03
2255	ALL	353441.5	3793405	NonCancerChronicDerived_Inh	2.98E-03
474	ALL	353973.1	3792868	NonCancerChronicDerived_Inh	2.97E-03
538	ALL	354023.1	3792918	NonCancerChronicDerived_Inh	2.97E-03
2363	ALL	353396.5	3793480	NonCancerChronicDerived_Inh	2.97E-03
799	ALL	354273.1	3793118	NonCancerChronicDerived_Inh	2.97E-03
2488	ALL	353366.5	3793585	NonCancerChronicDerived_Inh	2.97E-03
2022	ALL	353486.5	3793255	NonCancerChronicDerived_Inh	2.96E-03
966	ALL	354398.1	3793268	NonCancerChronicDerived_Inh	2.96E-03
506	ALL	353998.1	3792893	NonCancerChronicDerived_Inh	2.96E-03
1057	ALL	354448.1	3793393	NonCancerChronicDerived_Inh	2.96E-03
1391	ALL	353615.5	3792760	NonCancerChronicDerived_Inh	2.96E-03
865	ALL	354323.1	3793168	NonCancerChronicDerived_Inh	2.95E-03
733	ALL	354223.1	3793068	NonCancerChronicDerived_Inh	2.95E-03
832	ALL	354298.1	3793143	NonCancerChronicDerived_Inh	2.95E-03
2183	ALL	353456.5	3793360	NonCancerChronicDerived_Inh	2.95E-03

2322	ALL	353411.5	3793450	NonCancerChronicDerived_Inh	2.95E-03
1707	ALL	353540.5	3793035	NonCancerChronicDerived_Inh	2.95E-03
1592	ALL	353565.5	3792935	NonCancerChronicDerived_Inh	2.95E-03
2419	ALL	353381.5	3793525	NonCancerChronicDerived_Inh	2.94E-03
2084	ALL	353471.5	3793300	NonCancerChronicDerived_Inh	2.94E-03
898	ALL	354348.1	3793193	NonCancerChronicDerived_Inh	2.94E-03
603	ALL	354098.1	3792968	NonCancerChronicDerived_Inh	2.93E-03
1477	ALL	353590.5	3792835	NonCancerChronicDerived_Inh	2.93E-03
2278	ALL	353426.5	3793420	NonCancerChronicDerived_Inh	2.92E-03
700	ALL	354198.1	3793043	NonCancerChronicDerived_Inh	2.92E-03
1825	ALL	353515.5	3793135	NonCancerChronicDerived_Inh	2.92E-03
2343	ALL	353396.5	3793465	NonCancerChronicDerived_Inh	2.92E-03
411	ALL	353948.1	3792818	NonCancerChronicDerived_Inh	2.92E-03
1041	ALL	354448.1	3793368	NonCancerChronicDerived_Inh	2.91E-03
2158	ALL	353456.5	3793345	NonCancerChronicDerived_Inh	2.91E-03
668	ALL	354173.1	3793018	NonCancerChronicDerived_Inh	2.91E-03
2472	ALL	353366.5	3793570	NonCancerChronicDerived_Inh	2.91E-03
2231	ALL	353441.5	3793390	NonCancerChronicDerived_Inh	2.91E-03
2400	ALL	353381.5	3793510	NonCancerChronicDerived_Inh	2.91E-03
348	ALL	353923.1	3792768	NonCancerChronicDerived_Inh	2.90E-03
2059	ALL	353471.5	3793285	NonCancerChronicDerived_Inh	2.90E-03
930	ALL	354373.1	3793218	NonCancerChronicDerived_Inh	2.90E-03
1914	ALL	353490.5	3793210	NonCancerChronicDerived_Inh	2.90E-03
571	ALL	354073.1	3792943	NonCancerChronicDerived_Inh	2.90E-03
285	ALL	353898.1	3792718	NonCancerChronicDerived_Inh	2.89E-03
1678	ALL	353540.5	3793010	NonCancerChronicDerived_Inh	2.88E-03
222	ALL	353873.1	3792668	NonCancerChronicDerived_Inh	2.88E-03
986	ALL	354423.1	3793293	NonCancerChronicDerived_Inh	2.88E-03
2455	ALL	353366.5	3793555	NonCancerChronicDerived_Inh	2.88E-03
2381	ALL	353381.5	3793495	NonCancerChronicDerived_Inh	2.88E-03
2133	ALL	353456.5	3793330	NonCancerChronicDerived_Inh	2.88E-03
1563	ALL	353565.5	3792910	NonCancerChronicDerived_Inh	2.87E-03
636	ALL	354148.1	3792993	NonCancerChronicDerived_Inh	2.87E-03
2034	ALL	353471.5	3793270	NonCancerChronicDerived_Inh	2.86E-03
539	ALL	354048.1	3792918	NonCancerChronicDerived_Inh	2.86E-03
2300	ALL	353411.5	3793435	NonCancerChronicDerived_Inh	2.86E-03
2254	ALL	353426.5	3793405	NonCancerChronicDerived_Inh	2.86E-03
2207	ALL	353441.5	3793375	NonCancerChronicDerived_Inh	2.86E-03
443	ALL	353973.1	3792843	NonCancerChronicDerived_Inh	2.85E-03
1025	ALL	354448.1	3793343	NonCancerChronicDerived_Inh	2.85E-03
2437	ALL	353366.5	3793540	NonCancerChronicDerived_Inh	2.85E-03
604	ALL	354123.1	3792968	NonCancerChronicDerived_Inh	2.85E-03
2362	ALL	353381.5	3793480	NonCancerChronicDerived_Inh	2.85E-03
507	ALL	354023.1	3792893	NonCancerChronicDerived_Inh	2.84E-03
2108	ALL	353456.5	3793315	NonCancerChronicDerived_Inh	2.84E-03
1795	ALL	353515.5	3793110	NonCancerChronicDerived_Inh	2.84E-03
475	ALL	353998.1	3792868	NonCancerChronicDerived_Inh	2.83E-03

1884	ALL	353490.5	3793185	NonCancerChronicDerived_Inh	2.83E-03
1305	ALL	353640.5	3792685	NonCancerChronicDerived_Inh	2.83E-03
947	ALL	354398.1	3793243	NonCancerChronicDerived_Inh	2.83E-03
2021	ALL	353471.5	3793255	NonCancerChronicDerived_Inh	2.83E-03
767	ALL	354273.1	3793093	NonCancerChronicDerived_Inh	2.83E-03
2321	ALL	353396.5	3793450	NonCancerChronicDerived_Inh	2.83E-03
1448	ALL	353590.5	3792810	NonCancerChronicDerived_Inh	2.82E-03
2418	ALL	353366.5	3793525	NonCancerChronicDerived_Inh	2.82E-03
2182	ALL	353441.5	3793360	NonCancerChronicDerived_Inh	2.82E-03
1649	ALL	353540.5	3792985	NonCancerChronicDerived_Inh	2.81E-03
2083	ALL	353456.5	3793300	NonCancerChronicDerived_Inh	2.81E-03
1362	ALL	353615.5	3792735	NonCancerChronicDerived_Inh	2.80E-03
2277	ALL	353411.5	3793420	NonCancerChronicDerived_Inh	2.80E-03
2342	ALL	353381.5	3793465	NonCancerChronicDerived_Inh	2.80E-03
734	ALL	354248.1	3793068	NonCancerChronicDerived_Inh	2.80E-03
1765	ALL	353515.5	3793085	NonCancerChronicDerived_Inh	2.80E-03
833	ALL	354323.1	3793143	NonCancerChronicDerived_Inh	2.79E-03
380	ALL	353948.1	3792793	NonCancerChronicDerived_Inh	2.79E-03
1534	ALL	353565.5	3792885	NonCancerChronicDerived_Inh	2.79E-03
800	ALL	354298.1	3793118	NonCancerChronicDerived_Inh	2.79E-03
572	ALL	354098.1	3792943	NonCancerChronicDerived_Inh	2.79E-03
2399	ALL	353366.5	3793510	NonCancerChronicDerived_Inh	2.79E-03
866	ALL	354348.1	3793168	NonCancerChronicDerived_Inh	2.78E-03
2230	ALL	353426.5	3793390	NonCancerChronicDerived_Inh	2.78E-03
2157	ALL	353441.5	3793345	NonCancerChronicDerived_Inh	2.78E-03
701	ALL	354223.1	3793043	NonCancerChronicDerived_Inh	2.78E-03
669	ALL	354198.1	3793018	NonCancerChronicDerived_Inh	2.77E-03
2058	ALL	353456.5	3793285	NonCancerChronicDerived_Inh	2.77E-03
1006	ALL	354448.1	3793318	NonCancerChronicDerived_Inh	2.77E-03
1854	ALL	353490.5	3793160	NonCancerChronicDerived_Inh	2.77E-03
1735	ALL	353515.5	3793060	NonCancerChronicDerived_Inh	2.77E-03
637	ALL	354173.1	3792993	NonCancerChronicDerived_Inh	2.77E-03
2380	ALL	353366.5	3793495	NonCancerChronicDerived_Inh	2.76E-03
967	ALL	354423.1	3793268	NonCancerChronicDerived_Inh	2.76E-03
540	ALL	354073.1	3792918	NonCancerChronicDerived_Inh	2.76E-03
899	ALL	354373.1	3793193	NonCancerChronicDerived_Inh	2.76E-03
317	ALL	353923.1	3792743	NonCancerChronicDerived_Inh	2.75E-03
1220	ALL	353690.5	3792610	NonCancerChronicDerived_Inh	2.74E-03
2132	ALL	353441.5	3793330	NonCancerChronicDerived_Inh	2.74E-03
254	ALL	353898.1	3792693	NonCancerChronicDerived_Inh	2.74E-03
2299	ALL	353396.5	3793435	NonCancerChronicDerived_Inh	2.74E-03
508	ALL	354048.1	3792893	NonCancerChronicDerived_Inh	2.74E-03
2253	ALL	353411.5	3793405	NonCancerChronicDerived_Inh	2.74E-03
2033	ALL	353456.5	3793270	NonCancerChronicDerived_Inh	2.74E-03
412	ALL	353973.1	3792818	NonCancerChronicDerived_Inh	2.74E-03
1620	ALL	353540.5	3792960	NonCancerChronicDerived_Inh	2.74E-03
2206	ALL	353426.5	3793375	NonCancerChronicDerived_Inh	2.73E-03

2361	ALL	353366.5	3793480	NonCancerChronicDerived_Inh	2.73E-03
2320	ALL	353381.5	3793450	NonCancerChronicDerived_Inh	2.72E-03
476	ALL	354023.1	3792868	NonCancerChronicDerived_Inh	2.72E-03
1073	ALL	354473.1	3793418	NonCancerChronicDerived_Inh	2.71E-03
605	ALL	354148.1	3792968	NonCancerChronicDerived_Inh	2.71E-03
444	ALL	353998.1	3792843	NonCancerChronicDerived_Inh	2.71E-03
2107	ALL	353441.5	3793315	NonCancerChronicDerived_Inh	2.71E-03
1419	ALL	353590.5	3792785	NonCancerChronicDerived_Inh	2.71E-03
1824	ALL	353490.5	3793135	NonCancerChronicDerived_Inh	2.71E-03
1706	ALL	353515.5	3793035	NonCancerChronicDerived_Inh	2.71E-03
1505	ALL	353565.5	3792860	NonCancerChronicDerived_Inh	2.70E-03
931	ALL	354398.1	3793218	NonCancerChronicDerived_Inh	2.70E-03
2020	ALL	353456.5	3793255	NonCancerChronicDerived_Inh	2.70E-03
573	ALL	354123.1	3792943	NonCancerChronicDerived_Inh	2.70E-03
2181	ALL	353426.5	3793360	NonCancerChronicDerived_Inh	2.70E-03
159	ALL	353848.1	3792618	NonCancerChronicDerived_Inh	2.70E-03
2341	ALL	353366.5	3793465	NonCancerChronicDerived_Inh	2.69E-03
349	ALL	353948.1	3792768	NonCancerChronicDerived_Inh	2.69E-03
1248	ALL	353665.5	3792635	NonCancerChronicDerived_Inh	2.69E-03
1058	ALL	354473.1	3793393	NonCancerChronicDerived_Inh	2.69E-03
2276	ALL	353396.5	3793420	NonCancerChronicDerived_Inh	2.68E-03
2082	ALL	353441.5	3793300	NonCancerChronicDerived_Inh	2.68E-03
987	ALL	354448.1	3793293	NonCancerChronicDerived_Inh	2.68E-03
1913	ALL	353465.5	3793210	NonCancerChronicDerived_Inh	2.67E-03
2156	ALL	353426.5	3793345	NonCancerChronicDerived_Inh	2.66E-03
2229	ALL	353411.5	3793390	NonCancerChronicDerived_Inh	2.66E-03
1192	ALL	353715.5	3792585	NonCancerChronicDerived_Inh	2.66E-03
1591	ALL	353540.5	3792935	NonCancerChronicDerived_Inh	2.66E-03
541	ALL	354098.1	3792918	NonCancerChronicDerived_Inh	2.66E-03
2057	ALL	353441.5	3793285	NonCancerChronicDerived_Inh	2.65E-03
1042	ALL	354473.1	3793368	NonCancerChronicDerived_Inh	2.65E-03
735	ALL	354273.1	3793068	NonCancerChronicDerived_Inh	2.65E-03
948	ALL	354423.1	3793243	NonCancerChronicDerived_Inh	2.65E-03
191	ALL	353873.1	3792643	NonCancerChronicDerived_Inh	2.65E-03
768	ALL	354298.1	3793093	NonCancerChronicDerived_Inh	2.65E-03
127	ALL	353823.1	3792593	NonCancerChronicDerived_Inh	2.65E-03
801	ALL	354323.1	3793118	NonCancerChronicDerived_Inh	2.65E-03
2298	ALL	353381.5	3793435	NonCancerChronicDerived_Inh	2.65E-03
834	ALL	354348.1	3793143	NonCancerChronicDerived_Inh	2.64E-03
670	ALL	354223.1	3793018	NonCancerChronicDerived_Inh	2.64E-03
1677	ALL	353515.5	3793010	NonCancerChronicDerived_Inh	2.64E-03
638	ALL	354198.1	3792993	NonCancerChronicDerived_Inh	2.64E-03
509	ALL	354073.1	3792893	NonCancerChronicDerived_Inh	2.64E-03
702	ALL	354248.1	3793043	NonCancerChronicDerived_Inh	2.64E-03
2319	ALL	353366.5	3793450	NonCancerChronicDerived_Inh	2.63E-03
1794	ALL	353490.5	3793110	NonCancerChronicDerived_Inh	2.63E-03
2131	ALL	353426.5	3793330	NonCancerChronicDerived_Inh	2.63E-03

381	ALL	353973.1	3792793	NonCancerChronicDerived_Inh	2.63E-03
286	ALL	353923.1	3792718	NonCancerChronicDerived_Inh	2.62E-03
1333	ALL	353615.5	3792710	NonCancerChronicDerived_Inh	2.62E-03
2252	ALL	353396.5	3793405	NonCancerChronicDerived_Inh	2.62E-03
94	ALL	353773.1	3792568	NonCancerChronicDerived_Inh	2.62E-03
867	ALL	354373.1	3793168	NonCancerChronicDerived_Inh	2.62E-03
2032	ALL	353441.5	3793270	NonCancerChronicDerived_Inh	2.62E-03
1883	ALL	353465.5	3793185	NonCancerChronicDerived_Inh	2.62E-03
477	ALL	354048.1	3792868	NonCancerChronicDerived_Inh	2.61E-03
1476	ALL	353565.5	3792835	NonCancerChronicDerived_Inh	2.61E-03
2205	ALL	353411.5	3793375	NonCancerChronicDerived_Inh	2.61E-03
1026	ALL	354473.1	3793343	NonCancerChronicDerived_Inh	2.61E-03
2106	ALL	353426.5	3793315	NonCancerChronicDerived_Inh	2.60E-03
413	ALL	353998.1	3792818	NonCancerChronicDerived_Inh	2.60E-03
445	ALL	354023.1	3792843	NonCancerChronicDerived_Inh	2.59E-03
606	ALL	354173.1	3792968	NonCancerChronicDerived_Inh	2.59E-03
1562	ALL	353540.5	3792910	NonCancerChronicDerived_Inh	2.59E-03
2275	ALL	353381.5	3793420	NonCancerChronicDerived_Inh	2.59E-03
2180	ALL	353411.5	3793360	NonCancerChronicDerived_Inh	2.59E-03
2019	ALL	353441.5	3793255	NonCancerChronicDerived_Inh	2.59E-03
1390	ALL	353590.5	3792760	NonCancerChronicDerived_Inh	2.59E-03
968	ALL	354448.1	3793268	NonCancerChronicDerived_Inh	2.58E-03
2297	ALL	353366.5	3793435	NonCancerChronicDerived_Inh	2.58E-03
900	ALL	354398.1	3793193	NonCancerChronicDerived_Inh	2.58E-03
223	ALL	353898.1	3792668	NonCancerChronicDerived_Inh	2.58E-03
2081	ALL	353426.5	3793300	NonCancerChronicDerived_Inh	2.57E-03
574	ALL	354148.1	3792943	NonCancerChronicDerived_Inh	2.57E-03
1276	ALL	353640.5	3792660	NonCancerChronicDerived_Inh	2.57E-03
1648	ALL	353515.5	3792985	NonCancerChronicDerived_Inh	2.57E-03
1853	ALL	353465.5	3793160	NonCancerChronicDerived_Inh	2.57E-03
1764	ALL	353490.5	3793085	NonCancerChronicDerived_Inh	2.56E-03
2155	ALL	353411.5	3793345	NonCancerChronicDerived_Inh	2.56E-03
542	ALL	354123.1	3792918	NonCancerChronicDerived_Inh	2.56E-03
2228	ALL	353396.5	3793390	NonCancerChronicDerived_Inh	2.55E-03
1007	ALL	354473.1	3793318	NonCancerChronicDerived_Inh	2.55E-03
318	ALL	353948.1	3792743	NonCancerChronicDerived_Inh	2.55E-03
2056	ALL	353426.5	3793285	NonCancerChronicDerived_Inh	2.54E-03
932	ALL	354423.1	3793218	NonCancerChronicDerived_Inh	2.54E-03
510	ALL	354098.1	3792893	NonCancerChronicDerived_Inh	2.54E-03
2130	ALL	353411.5	3793330	NonCancerChronicDerived_Inh	2.53E-03
2251	ALL	353381.5	3793405	NonCancerChronicDerived_Inh	2.53E-03
350	ALL	353973.1	3792768	NonCancerChronicDerived_Inh	2.52E-03
2274	ALL	353366.5	3793420	NonCancerChronicDerived_Inh	2.52E-03
639	ALL	354223.1	3792993	NonCancerChronicDerived_Inh	2.52E-03
1533	ALL	353540.5	3792885	NonCancerChronicDerived_Inh	2.52E-03
1734	ALL	353490.5	3793060	NonCancerChronicDerived_Inh	2.52E-03
769	ALL	354323.1	3793093	NonCancerChronicDerived_Inh	2.52E-03

671	ALL	354248.1	3793018	NonCancerChronicDerived_Inh	2.52E-03
1074	ALL	354498.1	3793418	NonCancerChronicDerived_Inh	2.52E-03
1447	ALL	353565.5	3792810	NonCancerChronicDerived_Inh	2.52E-03
478	ALL	354073.1	3792868	NonCancerChronicDerived_Inh	2.52E-03
2031	ALL	353426.5	3793270	NonCancerChronicDerived_Inh	2.51E-03
802	ALL	354348.1	3793118	NonCancerChronicDerived_Inh	2.51E-03
736	ALL	354298.1	3793068	NonCancerChronicDerived_Inh	2.51E-03
703	ALL	354273.1	3793043	NonCancerChronicDerived_Inh	2.51E-03
1823	ALL	353465.5	3793135	NonCancerChronicDerived_Inh	2.51E-03
2204	ALL	353396.5	3793375	NonCancerChronicDerived_Inh	2.51E-03
2105	ALL	353411.5	3793315	NonCancerChronicDerived_Inh	2.50E-03
1619	ALL	353515.5	3792960	NonCancerChronicDerived_Inh	2.50E-03
382	ALL	353998.1	3792793	NonCancerChronicDerived_Inh	2.50E-03
255	ALL	353923.1	3792693	NonCancerChronicDerived_Inh	2.50E-03
1705	ALL	353490.5	3793035	NonCancerChronicDerived_Inh	2.49E-03
835	ALL	354373.1	3793143	NonCancerChronicDerived_Inh	2.49E-03
1912	ALL	353440.5	3793210	NonCancerChronicDerived_Inh	2.49E-03
446	ALL	354048.1	3792843	NonCancerChronicDerived_Inh	2.49E-03
949	ALL	354448.1	3793243	NonCancerChronicDerived_Inh	2.49E-03
2018	ALL	353426.5	3793255	NonCancerChronicDerived_Inh	2.48E-03
414	ALL	354023.1	3792818	NonCancerChronicDerived_Inh	2.48E-03
2179	ALL	353396.5	3793360	NonCancerChronicDerived_Inh	2.48E-03
988	ALL	354473.1	3793293	NonCancerChronicDerived_Inh	2.48E-03
607	ALL	354198.1	3792968	NonCancerChronicDerived_Inh	2.48E-03
1059	ALL	354498.1	3793393	NonCancerChronicDerived_Inh	2.48E-03
95	ALL	353798.1	3792568	NonCancerChronicDerived_Inh	2.47E-03
2080	ALL	353411.5	3793300	NonCancerChronicDerived_Inh	2.47E-03
575	ALL	354173.1	3792943	NonCancerChronicDerived_Inh	2.47E-03
1793	ALL	353465.5	3793110	NonCancerChronicDerived_Inh	2.46E-03
2250	ALL	353366.5	3793405	NonCancerChronicDerived_Inh	2.46E-03
2154	ALL	353396.5	3793345	NonCancerChronicDerived_Inh	2.46E-03
868	ALL	354398.1	3793168	NonCancerChronicDerived_Inh	2.46E-03
2227	ALL	353381.5	3793390	NonCancerChronicDerived_Inh	2.46E-03
1361	ALL	353590.5	3792735	NonCancerChronicDerived_Inh	2.45E-03
543	ALL	354148.1	3792918	NonCancerChronicDerived_Inh	2.45E-03
2055	ALL	353411.5	3793285	NonCancerChronicDerived_Inh	2.45E-03
1504	ALL	353540.5	3792860	NonCancerChronicDerived_Inh	2.44E-03
1882	ALL	353440.5	3793185	NonCancerChronicDerived_Inh	2.44E-03
1676	ALL	353490.5	3793010	NonCancerChronicDerived_Inh	2.44E-03
1043	ALL	354498.1	3793368	NonCancerChronicDerived_Inh	2.44E-03
511	ALL	354123.1	3792893	NonCancerChronicDerived_Inh	2.44E-03
1304	ALL	353615.5	3792685	NonCancerChronicDerived_Inh	2.43E-03
901	ALL	354423.1	3793193	NonCancerChronicDerived_Inh	2.43E-03
287	ALL	353948.1	3792718	NonCancerChronicDerived_Inh	2.43E-03
1590	ALL	353515.5	3792935	NonCancerChronicDerived_Inh	2.43E-03
2129	ALL	353396.5	3793330	NonCancerChronicDerived_Inh	2.43E-03
479	ALL	354098.1	3792868	NonCancerChronicDerived_Inh	2.42E-03

2030	ALL	353411.5	3793270	NonCancerChronicDerived_Inh	2.42E-03
160	ALL	353873.1	3792618	NonCancerChronicDerived_Inh	2.42E-03
1418	ALL	353565.5	3792785	NonCancerChronicDerived_Inh	2.41E-03
2203	ALL	353381.5	3793375	NonCancerChronicDerived_Inh	2.41E-03
640	ALL	354248.1	3792993	NonCancerChronicDerived_Inh	2.41E-03
2104	ALL	353396.5	3793315	NonCancerChronicDerived_Inh	2.40E-03
969	ALL	354473.1	3793268	NonCancerChronicDerived_Inh	2.40E-03
1027	ALL	354498.1	3793343	NonCancerChronicDerived_Inh	2.40E-03
672	ALL	354273.1	3793018	NonCancerChronicDerived_Inh	2.40E-03
447	ALL	354073.1	3792843	NonCancerChronicDerived_Inh	2.39E-03
770	ALL	354348.1	3793093	NonCancerChronicDerived_Inh	2.39E-03
319	ALL	353973.1	3792743	NonCancerChronicDerived_Inh	2.39E-03
192	ALL	353898.1	3792643	NonCancerChronicDerived_Inh	2.39E-03
737	ALL	354323.1	3793068	NonCancerChronicDerived_Inh	2.39E-03
2226	ALL	353366.5	3793390	NonCancerChronicDerived_Inh	2.39E-03
128	ALL	353848.1	3792593	NonCancerChronicDerived_Inh	2.39E-03
351	ALL	353998.1	3792768	NonCancerChronicDerived_Inh	2.39E-03
2017	ALL	353411.5	3793255	NonCancerChronicDerived_Inh	2.39E-03
1852	ALL	353440.5	3793160	NonCancerChronicDerived_Inh	2.39E-03
704	ALL	354298.1	3793043	NonCancerChronicDerived_Inh	2.39E-03
383	ALL	354023.1	3792793	NonCancerChronicDerived_Inh	2.39E-03
1763	ALL	353465.5	3793085	NonCancerChronicDerived_Inh	2.38E-03
415	ALL	354048.1	3792818	NonCancerChronicDerived_Inh	2.38E-03
2178	ALL	353381.5	3793360	NonCancerChronicDerived_Inh	2.38E-03
933	ALL	354448.1	3793218	NonCancerChronicDerived_Inh	2.38E-03
1075	ALL	354523.1	3793418	NonCancerChronicDerived_Inh	2.38E-03
803	ALL	354373.1	3793118	NonCancerChronicDerived_Inh	2.37E-03
2079	ALL	353396.5	3793300	NonCancerChronicDerived_Inh	2.37E-03
608	ALL	354223.1	3792968	NonCancerChronicDerived_Inh	2.37E-03
1647	ALL	353490.5	3792985	NonCancerChronicDerived_Inh	2.36E-03
544	ALL	354173.1	3792918	NonCancerChronicDerived_Inh	2.36E-03
1561	ALL	353515.5	3792910	NonCancerChronicDerived_Inh	2.36E-03
576	ALL	354198.1	3792943	NonCancerChronicDerived_Inh	2.36E-03
1475	ALL	353540.5	3792835	NonCancerChronicDerived_Inh	2.36E-03
224	ALL	353923.1	3792668	NonCancerChronicDerived_Inh	2.36E-03
2153	ALL	353381.5	3793345	NonCancerChronicDerived_Inh	2.36E-03
1219	ALL	353665.5	3792610	NonCancerChronicDerived_Inh	2.35E-03
1008	ALL	354498.1	3793318	NonCancerChronicDerived_Inh	2.35E-03
2054	ALL	353396.5	3793285	NonCancerChronicDerived_Inh	2.35E-03
836	ALL	354398.1	3793143	NonCancerChronicDerived_Inh	2.34E-03
512	ALL	354148.1	3792893	NonCancerChronicDerived_Inh	2.33E-03
1191	ALL	353690.5	3792585	NonCancerChronicDerived_Inh	2.33E-03
1822	ALL	353440.5	3793135	NonCancerChronicDerived_Inh	2.33E-03
2128	ALL	353381.5	3793330	NonCancerChronicDerived_Inh	2.33E-03
480	ALL	354123.1	3792868	NonCancerChronicDerived_Inh	2.33E-03
869	ALL	354423.1	3793168	NonCancerChronicDerived_Inh	2.33E-03
2202	ALL	353366.5	3793375	NonCancerChronicDerived_Inh	2.32E-03

2029	ALL	353396.5	3793270	NonCancerChronicDerived_Inh	2.32E-03
1911	ALL	353415.5	3793210	NonCancerChronicDerived_Inh	2.32E-03
1733	ALL	353465.5	3793060	NonCancerChronicDerived_Inh	2.32E-03
950	ALL	354473.1	3793243	NonCancerChronicDerived_Inh	2.32E-03
256	ALL	353948.1	3792693	NonCancerChronicDerived_Inh	2.32E-03
1247	ALL	353640.5	3792635	NonCancerChronicDerived_Inh	2.31E-03
1060	ALL	354523.1	3793393	NonCancerChronicDerived_Inh	2.31E-03
448	ALL	354098.1	3792843	NonCancerChronicDerived_Inh	2.30E-03
2103	ALL	353381.5	3793315	NonCancerChronicDerived_Inh	2.30E-03
1332	ALL	353590.5	3792710	NonCancerChronicDerived_Inh	2.30E-03
1389	ALL	353565.5	3792760	NonCancerChronicDerived_Inh	2.30E-03
1792	ALL	353440.5	3793110	NonCancerChronicDerived_Inh	2.30E-03
989	ALL	354498.1	3793293	NonCancerChronicDerived_Inh	2.30E-03
641	ALL	354273.1	3792993	NonCancerChronicDerived_Inh	2.30E-03
1618	ALL	353490.5	3792960	NonCancerChronicDerived_Inh	2.30E-03
2016	ALL	353396.5	3793255	NonCancerChronicDerived_Inh	2.29E-03
1532	ALL	353515.5	3792885	NonCancerChronicDerived_Inh	2.29E-03
96	ALL	353823.1	3792568	NonCancerChronicDerived_Inh	2.29E-03
416	ALL	354073.1	3792818	NonCancerChronicDerived_Inh	2.29E-03
2177	ALL	353366.5	3793360	NonCancerChronicDerived_Inh	2.29E-03
1704	ALL	353465.5	3793035	NonCancerChronicDerived_Inh	2.29E-03
384	ALL	354048.1	3792793	NonCancerChronicDerived_Inh	2.28E-03
288	ALL	353973.1	3792718	NonCancerChronicDerived_Inh	2.28E-03
673	ALL	354298.1	3793018	NonCancerChronicDerived_Inh	2.28E-03
738	ALL	354348.1	3793068	NonCancerChronicDerived_Inh	2.28E-03
902	ALL	354448.1	3793193	NonCancerChronicDerived_Inh	2.28E-03
2078	ALL	353381.5	3793300	NonCancerChronicDerived_Inh	2.28E-03
1881	ALL	353415.5	3793185	NonCancerChronicDerived_Inh	2.28E-03
705	ALL	354323.1	3793043	NonCancerChronicDerived_Inh	2.28E-03
1044	ALL	354523.1	3793368	NonCancerChronicDerived_Inh	2.28E-03
352	ALL	354023.1	3792768	NonCancerChronicDerived_Inh	2.27E-03
1446	ALL	353540.5	3792810	NonCancerChronicDerived_Inh	2.27E-03
320	ALL	353998.1	3792743	NonCancerChronicDerived_Inh	2.27E-03
609	ALL	354248.1	3792968	NonCancerChronicDerived_Inh	2.27E-03
771	ALL	354373.1	3793093	NonCancerChronicDerived_Inh	2.26E-03
513	ALL	354173.1	3792893	NonCancerChronicDerived_Inh	2.26E-03
545	ALL	354198.1	3792918	NonCancerChronicDerived_Inh	2.26E-03
577	ALL	354223.1	3792943	NonCancerChronicDerived_Inh	2.26E-03
2152	ALL	353366.5	3793345	NonCancerChronicDerived_Inh	2.26E-03
1076	ALL	354548.1	3793418	NonCancerChronicDerived_Inh	2.25E-03
2053	ALL	353381.5	3793285	NonCancerChronicDerived_Inh	2.25E-03
1675	ALL	353465.5	3793010	NonCancerChronicDerived_Inh	2.25E-03
1762	ALL	353440.5	3793085	NonCancerChronicDerived_Inh	2.24E-03
1028	ALL	354523.1	3793343	NonCancerChronicDerived_Inh	2.24E-03
1275	ALL	353615.5	3792660	NonCancerChronicDerived_Inh	2.24E-03
970	ALL	354498.1	3793268	NonCancerChronicDerived_Inh	2.24E-03
804	ALL	354398.1	3793118	NonCancerChronicDerived_Inh	2.23E-03

1589	ALL	353490.5	3792935	NonCancerChronicDerived_Inh	2.23E-03
481	ALL	354148.1	3792868	NonCancerChronicDerived_Inh	2.23E-03
2127	ALL	353366.5	3793330	NonCancerChronicDerived_Inh	2.23E-03
1163	ALL	353715.5	3792560	NonCancerChronicDerived_Inh	2.23E-03
1851	ALL	353415.5	3793160	NonCancerChronicDerived_Inh	2.23E-03
2028	ALL	353381.5	3793270	NonCancerChronicDerived_Inh	2.23E-03
837	ALL	354423.1	3793143	NonCancerChronicDerived_Inh	2.22E-03
934	ALL	354473.1	3793218	NonCancerChronicDerived_Inh	2.22E-03
449	ALL	354123.1	3792843	NonCancerChronicDerived_Inh	2.22E-03
1503	ALL	353515.5	3792860	NonCancerChronicDerived_Inh	2.22E-03
161	ALL	353898.1	3792618	NonCancerChronicDerived_Inh	2.21E-03
193	ALL	353923.1	3792643	NonCancerChronicDerived_Inh	2.21E-03
417	ALL	354098.1	3792818	NonCancerChronicDerived_Inh	2.21E-03
2102	ALL	353366.5	3793315	NonCancerChronicDerived_Inh	2.21E-03
1009	ALL	354523.1	3793318	NonCancerChronicDerived_Inh	2.20E-03
2015	ALL	353381.5	3793255	NonCancerChronicDerived_Inh	2.20E-03
63	ALL	353773.1	3792543	NonCancerChronicDerived_Inh	2.19E-03
129	ALL	353873.1	3792593	NonCancerChronicDerived_Inh	2.19E-03
225	ALL	353948.1	3792668	NonCancerChronicDerived_Inh	2.19E-03
642	ALL	354298.1	3792993	NonCancerChronicDerived_Inh	2.19E-03
385	ALL	354073.1	3792793	NonCancerChronicDerived_Inh	2.19E-03
1061	ALL	354548.1	3793393	NonCancerChronicDerived_Inh	2.19E-03
870	ALL	354448.1	3793168	NonCancerChronicDerived_Inh	2.19E-03
1360	ALL	353565.5	3792735	NonCancerChronicDerived_Inh	2.19E-03
1646	ALL	353465.5	3792985	NonCancerChronicDerived_Inh	2.18E-03
257	ALL	353973.1	3792693	NonCancerChronicDerived_Inh	2.18E-03
2077	ALL	353366.5	3793300	NonCancerChronicDerived_Inh	2.18E-03
1417	ALL	353540.5	3792785	NonCancerChronicDerived_Inh	2.18E-03
674	ALL	354323.1	3793018	NonCancerChronicDerived_Inh	2.18E-03
1821	ALL	353415.5	3793135	NonCancerChronicDerived_Inh	2.17E-03
353	ALL	354048.1	3792768	NonCancerChronicDerived_Inh	2.17E-03
514	ALL	354198.1	3792893	NonCancerChronicDerived_Inh	2.17E-03
706	ALL	354348.1	3793043	NonCancerChronicDerived_Inh	2.17E-03
1560	ALL	353490.5	3792910	NonCancerChronicDerived_Inh	2.17E-03
1732	ALL	353440.5	3793060	NonCancerChronicDerived_Inh	2.17E-03
546	ALL	354223.1	3792918	NonCancerChronicDerived_Inh	2.17E-03
1910	ALL	353390.5	3793210	NonCancerChronicDerived_Inh	2.17E-03
482	ALL	354173.1	3792868	NonCancerChronicDerived_Inh	2.16E-03
289	ALL	353998.1	3792718	NonCancerChronicDerived_Inh	2.16E-03
610	ALL	354273.1	3792968	NonCancerChronicDerived_Inh	2.16E-03
951	ALL	354498.1	3793243	NonCancerChronicDerived_Inh	2.16E-03
321	ALL	354023.1	3792743	NonCancerChronicDerived_Inh	2.16E-03
578	ALL	354248.1	3792943	NonCancerChronicDerived_Inh	2.16E-03
739	ALL	354373.1	3793068	NonCancerChronicDerived_Inh	2.16E-03
990	ALL	354523.1	3793293	NonCancerChronicDerived_Inh	2.15E-03
1045	ALL	354548.1	3793368	NonCancerChronicDerived_Inh	2.15E-03
2052	ALL	353366.5	3793285	NonCancerChronicDerived_Inh	2.15E-03

1303	ALL	353590.5	3792685	NonCancerChronicDerived_Inh	2.15E-03
1474	ALL	353515.5	3792835	NonCancerChronicDerived_Inh	2.15E-03
1791	ALL	353415.5	3793110	NonCancerChronicDerived_Inh	2.14E-03
903	ALL	354473.1	3793193	NonCancerChronicDerived_Inh	2.14E-03
772	ALL	354398.1	3793093	NonCancerChronicDerived_Inh	2.14E-03
64	ALL	353798.1	3792543	NonCancerChronicDerived_Inh	2.13E-03
450	ALL	354148.1	3792843	NonCancerChronicDerived_Inh	2.13E-03
805	ALL	354423.1	3793118	NonCancerChronicDerived_Inh	2.13E-03
2027	ALL	353366.5	3793270	NonCancerChronicDerived_Inh	2.13E-03
418	ALL	354123.1	3792818	NonCancerChronicDerived_Inh	2.13E-03
1880	ALL	353390.5	3793185	NonCancerChronicDerived_Inh	2.13E-03
1617	ALL	353465.5	3792960	NonCancerChronicDerived_Inh	2.12E-03
97	ALL	353848.1	3792568	NonCancerChronicDerived_Inh	2.12E-03
1029	ALL	354548.1	3793343	NonCancerChronicDerived_Inh	2.12E-03
386	ALL	354098.1	3792793	NonCancerChronicDerived_Inh	2.11E-03
1761	ALL	353415.5	3793085	NonCancerChronicDerived_Inh	2.11E-03
2014	ALL	353366.5	3793255	NonCancerChronicDerived_Inh	2.11E-03
1703	ALL	353440.5	3793035	NonCancerChronicDerived_Inh	2.10E-03
1531	ALL	353490.5	3792885	NonCancerChronicDerived_Inh	2.10E-03
838	ALL	354448.1	3793143	NonCancerChronicDerived_Inh	2.10E-03
971	ALL	354523.1	3793268	NonCancerChronicDerived_Inh	2.10E-03
643	ALL	354323.1	3792993	NonCancerChronicDerived_Inh	2.09E-03
935	ALL	354498.1	3793218	NonCancerChronicDerived_Inh	2.09E-03
354	ALL	354073.1	3792768	NonCancerChronicDerived_Inh	2.09E-03
1850	ALL	353390.5	3793160	NonCancerChronicDerived_Inh	2.08E-03
515	ALL	354223.1	3792893	NonCancerChronicDerived_Inh	2.08E-03
1388	ALL	353540.5	3792760	NonCancerChronicDerived_Inh	2.08E-03
1218	ALL	353640.5	3792610	NonCancerChronicDerived_Inh	2.08E-03
483	ALL	354198.1	3792868	NonCancerChronicDerived_Inh	2.08E-03
1674	ALL	353440.5	3793010	NonCancerChronicDerived_Inh	2.08E-03
547	ALL	354248.1	3792918	NonCancerChronicDerived_Inh	2.08E-03
1190	ALL	353665.5	3792585	NonCancerChronicDerived_Inh	2.08E-03
1010	ALL	354548.1	3793318	NonCancerChronicDerived_Inh	2.07E-03
675	ALL	354348.1	3793018	NonCancerChronicDerived_Inh	2.07E-03
258	ALL	353998.1	3792693	NonCancerChronicDerived_Inh	2.07E-03
322	ALL	354048.1	3792743	NonCancerChronicDerived_Inh	2.07E-03
226	ALL	353973.1	3792668	NonCancerChronicDerived_Inh	2.07E-03
611	ALL	354298.1	3792968	NonCancerChronicDerived_Inh	2.07E-03
1445	ALL	353515.5	3792810	NonCancerChronicDerived_Inh	2.07E-03
579	ALL	354273.1	3792943	NonCancerChronicDerived_Inh	2.07E-03
1588	ALL	353465.5	3792935	NonCancerChronicDerived_Inh	2.07E-03
194	ALL	353948.1	3792643	NonCancerChronicDerived_Inh	2.06E-03
290	ALL	354023.1	3792718	NonCancerChronicDerived_Inh	2.06E-03
1331	ALL	353565.5	3792710	NonCancerChronicDerived_Inh	2.06E-03
162	ALL	353923.1	3792618	NonCancerChronicDerived_Inh	2.06E-03
871	ALL	354473.1	3793168	NonCancerChronicDerived_Inh	2.06E-03
707	ALL	354373.1	3793043	NonCancerChronicDerived_Inh	2.06E-03

451	ALL	354173.1	3792843	NonCancerChronicDerived_Inh	2.05E-03
1246	ALL	353615.5	3792635	NonCancerChronicDerived_Inh	2.05E-03
419	ALL	354148.1	3792818	NonCancerChronicDerived_Inh	2.05E-03
1731	ALL	353415.5	3793060	NonCancerChronicDerived_Inh	2.05E-03
387	ALL	354123.1	3792793	NonCancerChronicDerived_Inh	2.04E-03
773	ALL	354423.1	3793093	NonCancerChronicDerived_Inh	2.04E-03
740	ALL	354398.1	3793068	NonCancerChronicDerived_Inh	2.04E-03
130	ALL	353898.1	3792593	NonCancerChronicDerived_Inh	2.04E-03
1502	ALL	353490.5	3792860	NonCancerChronicDerived_Inh	2.04E-03
952	ALL	354523.1	3793243	NonCancerChronicDerived_Inh	2.04E-03
1820	ALL	353390.5	3793135	NonCancerChronicDerived_Inh	2.03E-03
1162	ALL	353690.5	3792560	NonCancerChronicDerived_Inh	2.03E-03
65	ALL	353823.1	3792543	NonCancerChronicDerived_Inh	2.03E-03
1645	ALL	353440.5	3792985	NonCancerChronicDerived_Inh	2.03E-03
991	ALL	354548.1	3793293	NonCancerChronicDerived_Inh	2.03E-03
1909	ALL	353365.5	3793210	NonCancerChronicDerived_Inh	2.03E-03
904	ALL	354498.1	3793193	NonCancerChronicDerived_Inh	2.02E-03
355	ALL	354098.1	3792768	NonCancerChronicDerived_Inh	2.02E-03
806	ALL	354448.1	3793118	NonCancerChronicDerived_Inh	2.01E-03
1790	ALL	353390.5	3793110	NonCancerChronicDerived_Inh	2.01E-03
1559	ALL	353465.5	3792910	NonCancerChronicDerived_Inh	2.01E-03
516	ALL	354248.1	3792893	NonCancerChronicDerived_Inh	2.00E-03
1274	ALL	353590.5	3792660	NonCancerChronicDerived_Inh	2.00E-03
644	ALL	354348.1	3792993	NonCancerChronicDerived_Inh	2.00E-03
484	ALL	354223.1	3792868	NonCancerChronicDerived_Inh	1.99E-03
323	ALL	354073.1	3792743	NonCancerChronicDerived_Inh	1.99E-03
548	ALL	354273.1	3792918	NonCancerChronicDerived_Inh	1.99E-03
1879	ALL	353365.5	3793185	NonCancerChronicDerived_Inh	1.99E-03
1416	ALL	353515.5	3792785	NonCancerChronicDerived_Inh	1.99E-03
98	ALL	353873.1	3792568	NonCancerChronicDerived_Inh	1.98E-03
580	ALL	354298.1	3792943	NonCancerChronicDerived_Inh	1.98E-03
839	ALL	354473.1	3793143	NonCancerChronicDerived_Inh	1.98E-03
612	ALL	354323.1	3792968	NonCancerChronicDerived_Inh	1.98E-03
1359	ALL	353540.5	3792735	NonCancerChronicDerived_Inh	1.98E-03
1702	ALL	353415.5	3793035	NonCancerChronicDerived_Inh	1.98E-03
291	ALL	354048.1	3792718	NonCancerChronicDerived_Inh	1.98E-03
259	ALL	354023.1	3792693	NonCancerChronicDerived_Inh	1.98E-03
936	ALL	354523.1	3793218	NonCancerChronicDerived_Inh	1.98E-03
1616	ALL	353440.5	3792960	NonCancerChronicDerived_Inh	1.97E-03
972	ALL	354548.1	3793268	NonCancerChronicDerived_Inh	1.97E-03
452	ALL	354198.1	3792843	NonCancerChronicDerived_Inh	1.97E-03
1760	ALL	353390.5	3793085	NonCancerChronicDerived_Inh	1.97E-03
676	ALL	354373.1	3793018	NonCancerChronicDerived_Inh	1.97E-03
227	ALL	353998.1	3792668	NonCancerChronicDerived_Inh	1.97E-03
1473	ALL	353490.5	3792835	NonCancerChronicDerived_Inh	1.97E-03
420	ALL	354173.1	3792818	NonCancerChronicDerived_Inh	1.97E-03
388	ALL	354148.1	3792793	NonCancerChronicDerived_Inh	1.96E-03

356	ALL	354123.1	3792768	NonCancerChronicDerived_Inh	1.96E-03
741	ALL	354423.1	3793068	NonCancerChronicDerived_Inh	1.96E-03
708	ALL	354398.1	3793043	NonCancerChronicDerived_Inh	1.96E-03
195	ALL	353973.1	3792643	NonCancerChronicDerived_Inh	1.95E-03
872	ALL	354498.1	3793168	NonCancerChronicDerived_Inh	1.95E-03
1849	ALL	353365.5	3793160	NonCancerChronicDerived_Inh	1.95E-03
1530	ALL	353465.5	3792885	NonCancerChronicDerived_Inh	1.94E-03
163	ALL	353948.1	3792618	NonCancerChronicDerived_Inh	1.94E-03
1302	ALL	353565.5	3792685	NonCancerChronicDerived_Inh	1.94E-03
774	ALL	354448.1	3793093	NonCancerChronicDerived_Inh	1.93E-03
1134	ALL	353715.5	3792535	NonCancerChronicDerived_Inh	1.93E-03
324	ALL	354098.1	3792743	NonCancerChronicDerived_Inh	1.93E-03
1730	ALL	353390.5	3793060	NonCancerChronicDerived_Inh	1.93E-03
1587	ALL	353440.5	3792935	NonCancerChronicDerived_Inh	1.92E-03
517	ALL	354273.1	3792893	NonCancerChronicDerived_Inh	1.92E-03
953	ALL	354548.1	3793243	NonCancerChronicDerived_Inh	1.92E-03
1673	ALL	353415.5	3793010	NonCancerChronicDerived_Inh	1.92E-03
131	ALL	353923.1	3792593	NonCancerChronicDerived_Inh	1.92E-03
485	ALL	354248.1	3792868	NonCancerChronicDerived_Inh	1.92E-03
66	ALL	353848.1	3792543	NonCancerChronicDerived_Inh	1.91E-03
905	ALL	354523.1	3793193	NonCancerChronicDerived_Inh	1.91E-03
549	ALL	354298.1	3792918	NonCancerChronicDerived_Inh	1.91E-03
807	ALL	354473.1	3793118	NonCancerChronicDerived_Inh	1.91E-03
292	ALL	354073.1	3792718	NonCancerChronicDerived_Inh	1.91E-03
1819	ALL	353365.5	3793135	NonCancerChronicDerived_Inh	1.91E-03
1908	ALL	353340.5	3793210	NonCancerChronicDerived_Inh	1.91E-03
32	ALL	353773.1	3792518	NonCancerChronicDerived_Inh	1.90E-03
1387	ALL	353515.5	3792760	NonCancerChronicDerived_Inh	1.90E-03
1444	ALL	353490.5	3792810	NonCancerChronicDerived_Inh	1.90E-03
645	ALL	354373.1	3792993	NonCancerChronicDerived_Inh	1.90E-03
389	ALL	354173.1	3792793	NonCancerChronicDerived_Inh	1.90E-03
613	ALL	354348.1	3792968	NonCancerChronicDerived_Inh	1.90E-03
453	ALL	354223.1	3792843	NonCancerChronicDerived_Inh	1.89E-03
421	ALL	354198.1	3792818	NonCancerChronicDerived_Inh	1.89E-03
581	ALL	354323.1	3792943	NonCancerChronicDerived_Inh	1.89E-03
260	ALL	354048.1	3792693	NonCancerChronicDerived_Inh	1.89E-03
1644	ALL	353415.5	3792985	NonCancerChronicDerived_Inh	1.89E-03
228	ALL	354023.1	3792668	NonCancerChronicDerived_Inh	1.89E-03
1501	ALL	353465.5	3792860	NonCancerChronicDerived_Inh	1.88E-03
357	ALL	354148.1	3792768	NonCancerChronicDerived_Inh	1.88E-03
840	ALL	354498.1	3793143	NonCancerChronicDerived_Inh	1.88E-03
1189	ALL	353640.5	3792585	NonCancerChronicDerived_Inh	1.88E-03
677	ALL	354398.1	3793018	NonCancerChronicDerived_Inh	1.88E-03
325	ALL	354123.1	3792743	NonCancerChronicDerived_Inh	1.88E-03
1217	ALL	353615.5	3792610	NonCancerChronicDerived_Inh	1.88E-03
33	ALL	353798.1	3792518	NonCancerChronicDerived_Inh	1.87E-03
1330	ALL	353540.5	3792710	NonCancerChronicDerived_Inh	1.87E-03

1789	ALL	353365.5	3793110	NonCancerChronicDerived_Inh	1.87E-03
709	ALL	354423.1	3793043	NonCancerChronicDerived_Inh	1.87E-03
1878	ALL	353340.5	3793185	NonCancerChronicDerived_Inh	1.87E-03
99	ALL	353898.1	3792568	NonCancerChronicDerived_Inh	1.87E-03
1701	ALL	353390.5	3793035	NonCancerChronicDerived_Inh	1.87E-03
937	ALL	354548.1	3793218	NonCancerChronicDerived_Inh	1.87E-03
196	ALL	353998.1	3792643	NonCancerChronicDerived_Inh	1.87E-03
1558	ALL	353440.5	3792910	NonCancerChronicDerived_Inh	1.87E-03
742	ALL	354448.1	3793068	NonCancerChronicDerived_Inh	1.86E-03
1161	ALL	353665.5	3792560	NonCancerChronicDerived_Inh	1.85E-03
873	ALL	354523.1	3793168	NonCancerChronicDerived_Inh	1.85E-03
1245	ALL	353590.5	3792635	NonCancerChronicDerived_Inh	1.85E-03
293	ALL	354098.1	3792718	NonCancerChronicDerived_Inh	1.85E-03
164	ALL	353973.1	3792618	NonCancerChronicDerived_Inh	1.85E-03
486	ALL	354273.1	3792868	NonCancerChronicDerived_Inh	1.84E-03
518	ALL	354298.1	3792893	NonCancerChronicDerived_Inh	1.84E-03
1615	ALL	353415.5	3792960	NonCancerChronicDerived_Inh	1.84E-03
1759	ALL	353365.5	3793085	NonCancerChronicDerived_Inh	1.84E-03
775	ALL	354473.1	3793093	NonCancerChronicDerived_Inh	1.84E-03
1848	ALL	353340.5	3793160	NonCancerChronicDerived_Inh	1.83E-03
1415	ALL	353490.5	3792785	NonCancerChronicDerived_Inh	1.83E-03
390	ALL	354198.1	3792793	NonCancerChronicDerived_Inh	1.83E-03
550	ALL	354323.1	3792918	NonCancerChronicDerived_Inh	1.82E-03
454	ALL	354248.1	3792843	NonCancerChronicDerived_Inh	1.82E-03
358	ALL	354173.1	3792768	NonCancerChronicDerived_Inh	1.82E-03
422	ALL	354223.1	3792818	NonCancerChronicDerived_Inh	1.82E-03
582	ALL	354348.1	3792943	NonCancerChronicDerived_Inh	1.82E-03
132	ALL	353948.1	3792593	NonCancerChronicDerived_Inh	1.82E-03
614	ALL	354373.1	3792968	NonCancerChronicDerived_Inh	1.82E-03
261	ALL	354073.1	3792693	NonCancerChronicDerived_Inh	1.82E-03
1472	ALL	353465.5	3792835	NonCancerChronicDerived_Inh	1.82E-03
67	ALL	353873.1	3792543	NonCancerChronicDerived_Inh	1.81E-03
1273	ALL	353565.5	3792660	NonCancerChronicDerived_Inh	1.81E-03
34	ALL	353823.1	3792518	NonCancerChronicDerived_Inh	1.81E-03
1358	ALL	353515.5	3792735	NonCancerChronicDerived_Inh	1.81E-03
808	ALL	354498.1	3793118	NonCancerChronicDerived_Inh	1.81E-03
906	ALL	354548.1	3793193	NonCancerChronicDerived_Inh	1.81E-03
1529	ALL	353440.5	3792885	NonCancerChronicDerived_Inh	1.81E-03
229	ALL	354048.1	3792668	NonCancerChronicDerived_Inh	1.81E-03
1672	ALL	353390.5	3793010	NonCancerChronicDerived_Inh	1.80E-03
326	ALL	354148.1	3792743	NonCancerChronicDerived_Inh	1.80E-03
646	ALL	354398.1	3792993	NonCancerChronicDerived_Inh	1.80E-03
1133	ALL	353690.5	3792535	NonCancerChronicDerived_Inh	1.80E-03
1729	ALL	353365.5	3793060	NonCancerChronicDerived_Inh	1.80E-03
1907	ALL	353315.5	3793210	NonCancerChronicDerived_Inh	1.79E-03
678	ALL	354423.1	3793018	NonCancerChronicDerived_Inh	1.79E-03
1818	ALL	353340.5	3793135	NonCancerChronicDerived_Inh	1.79E-03

1586	ALL	353415.5	3792935	NonCancerChronicDerived_Inh	1.79E-03
197	ALL	354023.1	3792643	NonCancerChronicDerived_Inh	1.79E-03
841	ALL	354523.1	3793143	NonCancerChronicDerived_Inh	1.79E-03
294	ALL	354123.1	3792718	NonCancerChronicDerived_Inh	1.79E-03
710	ALL	354448.1	3793043	NonCancerChronicDerived_Inh	1.78E-03
100	ALL	353923.1	3792568	NonCancerChronicDerived_Inh	1.78E-03
487	ALL	354298.1	3792868	NonCancerChronicDerived_Inh	1.77E-03
1301	ALL	353540.5	3792685	NonCancerChronicDerived_Inh	1.77E-03
165	ALL	353998.1	3792618	NonCancerChronicDerived_Inh	1.77E-03
743	ALL	354473.1	3793068	NonCancerChronicDerived_Inh	1.77E-03
519	ALL	354323.1	3792893	NonCancerChronicDerived_Inh	1.77E-03
262	ALL	354098.1	3792693	NonCancerChronicDerived_Inh	1.76E-03
1788	ALL	353340.5	3793110	NonCancerChronicDerived_Inh	1.76E-03
1877	ALL	353315.5	3793185	NonCancerChronicDerived_Inh	1.76E-03
391	ALL	354223.1	3792793	NonCancerChronicDerived_Inh	1.76E-03
359	ALL	354198.1	3792768	NonCancerChronicDerived_Inh	1.76E-03
551	ALL	354348.1	3792918	NonCancerChronicDerived_Inh	1.76E-03
1443	ALL	353465.5	3792810	NonCancerChronicDerived_Inh	1.75E-03
1643	ALL	353390.5	3792985	NonCancerChronicDerived_Inh	1.75E-03
874	ALL	354548.1	3793168	NonCancerChronicDerived_Inh	1.75E-03
1700	ALL	353365.5	3793035	NonCancerChronicDerived_Inh	1.75E-03
423	ALL	354248.1	3792818	NonCancerChronicDerived_Inh	1.75E-03
455	ALL	354273.1	3792843	NonCancerChronicDerived_Inh	1.75E-03
1500	ALL	353440.5	3792860	NonCancerChronicDerived_Inh	1.75E-03
1386	ALL	353490.5	3792760	NonCancerChronicDerived_Inh	1.75E-03
776	ALL	354498.1	3793093	NonCancerChronicDerived_Inh	1.75E-03
583	ALL	354373.1	3792943	NonCancerChronicDerived_Inh	1.74E-03
327	ALL	354173.1	3792743	NonCancerChronicDerived_Inh	1.74E-03
133	ALL	353973.1	3792593	NonCancerChronicDerived_Inh	1.74E-03
1557	ALL	353415.5	3792910	NonCancerChronicDerived_Inh	1.74E-03
35	ALL	353848.1	3792518	NonCancerChronicDerived_Inh	1.74E-03
230	ALL	354073.1	3792668	NonCancerChronicDerived_Inh	1.74E-03
647	ALL	354423.1	3792993	NonCancerChronicDerived_Inh	1.73E-03
615	ALL	354398.1	3792968	NonCancerChronicDerived_Inh	1.73E-03
68	ALL	353898.1	3792543	NonCancerChronicDerived_Inh	1.73E-03
1758	ALL	353340.5	3793085	NonCancerChronicDerived_Inh	1.73E-03
295	ALL	354148.1	3792718	NonCancerChronicDerived_Inh	1.73E-03
809	ALL	354523.1	3793118	NonCancerChronicDerived_Inh	1.73E-03
1847	ALL	353315.5	3793160	NonCancerChronicDerived_Inh	1.72E-03
1188	ALL	353615.5	3792585	NonCancerChronicDerived_Inh	1.72E-03
1329	ALL	353515.5	3792710	NonCancerChronicDerived_Inh	1.72E-03
1105	ALL	353715.5	3792510	NonCancerChronicDerived_Inh	1.72E-03
198	ALL	354048.1	3792643	NonCancerChronicDerived_Inh	1.72E-03
1614	ALL	353390.5	3792960	NonCancerChronicDerived_Inh	1.72E-03
1216	ALL	353590.5	3792610	NonCancerChronicDerived_Inh	1.71E-03
679	ALL	354448.1	3793018	NonCancerChronicDerived_Inh	1.71E-03
263	ALL	354123.1	3792693	NonCancerChronicDerived_Inh	1.71E-03

1160	ALL	353640.5	3792560	NonCancerChronicDerived_Inh	1.71E-03
1671	ALL	353365.5	3793010	NonCancerChronicDerived_Inh	1.71E-03
488	ALL	354323.1	3792868	NonCancerChronicDerived_Inh	1.70E-03
360	ALL	354223.1	3792768	NonCancerChronicDerived_Inh	1.70E-03
711	ALL	354473.1	3793043	NonCancerChronicDerived_Inh	1.70E-03
166	ALL	354023.1	3792618	NonCancerChronicDerived_Inh	1.70E-03
101	ALL	353948.1	3792568	NonCancerChronicDerived_Inh	1.70E-03
842	ALL	354548.1	3793143	NonCancerChronicDerived_Inh	1.70E-03
520	ALL	354348.1	3792893	NonCancerChronicDerived_Inh	1.69E-03
392	ALL	354248.1	3792793	NonCancerChronicDerived_Inh	1.69E-03
1244	ALL	353565.5	3792635	NonCancerChronicDerived_Inh	1.69E-03
1906	ALL	353290.5	3793210	NonCancerChronicDerived_Inh	1.69E-03
1414	ALL	353465.5	3792785	NonCancerChronicDerived_Inh	1.69E-03
1	ALL	353773.1	3792493	NonCancerChronicDerived_Inh	1.69E-03
1728	ALL	353340.5	3793060	NonCancerChronicDerived_Inh	1.69E-03
1471	ALL	353440.5	3792835	NonCancerChronicDerived_Inh	1.69E-03
328	ALL	354198.1	3792743	NonCancerChronicDerived_Inh	1.69E-03
1528	ALL	353415.5	3792885	NonCancerChronicDerived_Inh	1.69E-03
424	ALL	354273.1	3792818	NonCancerChronicDerived_Inh	1.69E-03
744	ALL	354498.1	3793068	NonCancerChronicDerived_Inh	1.69E-03
456	ALL	354298.1	3792843	NonCancerChronicDerived_Inh	1.68E-03
1817	ALL	353315.5	3793135	NonCancerChronicDerived_Inh	1.68E-03
2	ALL	353798.1	3792493	NonCancerChronicDerived_Inh	1.68E-03
231	ALL	354098.1	3792668	NonCancerChronicDerived_Inh	1.68E-03
1132	ALL	353665.5	3792535	NonCancerChronicDerived_Inh	1.68E-03
1585	ALL	353390.5	3792935	NonCancerChronicDerived_Inh	1.68E-03
134	ALL	353998.1	3792593	NonCancerChronicDerived_Inh	1.67E-03
1357	ALL	353490.5	3792735	NonCancerChronicDerived_Inh	1.67E-03
552	ALL	354373.1	3792918	NonCancerChronicDerived_Inh	1.67E-03
296	ALL	354173.1	3792718	NonCancerChronicDerived_Inh	1.67E-03
777	ALL	354523.1	3793093	NonCancerChronicDerived_Inh	1.67E-03
36	ALL	353873.1	3792518	NonCancerChronicDerived_Inh	1.67E-03
616	ALL	354423.1	3792968	NonCancerChronicDerived_Inh	1.67E-03
1272	ALL	353540.5	3792660	NonCancerChronicDerived_Inh	1.66E-03
1787	ALL	353315.5	3793110	NonCancerChronicDerived_Inh	1.66E-03
584	ALL	354398.1	3792943	NonCancerChronicDerived_Inh	1.66E-03
199	ALL	354073.1	3792643	NonCancerChronicDerived_Inh	1.66E-03
1876	ALL	353290.5	3793185	NonCancerChronicDerived_Inh	1.66E-03
69	ALL	353923.1	3792543	NonCancerChronicDerived_Inh	1.66E-03
648	ALL	354448.1	3792993	NonCancerChronicDerived_Inh	1.66E-03
264	ALL	354148.1	3792693	NonCancerChronicDerived_Inh	1.65E-03
1642	ALL	353365.5	3792985	NonCancerChronicDerived_Inh	1.65E-03
1699	ALL	353340.5	3793035	NonCancerChronicDerived_Inh	1.65E-03
3	ALL	353823.1	3792493	NonCancerChronicDerived_Inh	1.65E-03
361	ALL	354248.1	3792768	NonCancerChronicDerived_Inh	1.65E-03
810	ALL	354548.1	3793118	NonCancerChronicDerived_Inh	1.64E-03
329	ALL	354223.1	3792743	NonCancerChronicDerived_Inh	1.64E-03

167	ALL	354048.1	3792618	NonCancerChronicDerived_Inh	1.64E-03
1757	ALL	353315.5	3793085	NonCancerChronicDerived_Inh	1.64E-03
680	ALL	354473.1	3793018	NonCancerChronicDerived_Inh	1.64E-03
489	ALL	354348.1	3792868	NonCancerChronicDerived_Inh	1.63E-03
102	ALL	353973.1	3792568	NonCancerChronicDerived_Inh	1.63E-03
1499	ALL	353415.5	3792860	NonCancerChronicDerived_Inh	1.63E-03
393	ALL	354273.1	3792793	NonCancerChronicDerived_Inh	1.63E-03
1300	ALL	353515.5	3792685	NonCancerChronicDerived_Inh	1.63E-03
1104	ALL	353690.5	3792510	NonCancerChronicDerived_Inh	1.63E-03
1442	ALL	353440.5	3792810	NonCancerChronicDerived_Inh	1.63E-03
1556	ALL	353390.5	3792910	NonCancerChronicDerived_Inh	1.63E-03
232	ALL	354123.1	3792668	NonCancerChronicDerived_Inh	1.63E-03
297	ALL	354198.1	3792718	NonCancerChronicDerived_Inh	1.63E-03
712	ALL	354498.1	3793043	NonCancerChronicDerived_Inh	1.62E-03
1385	ALL	353465.5	3792760	NonCancerChronicDerived_Inh	1.62E-03
425	ALL	354298.1	3792818	NonCancerChronicDerived_Inh	1.62E-03
1846	ALL	353290.5	3793160	NonCancerChronicDerived_Inh	1.62E-03
457	ALL	354323.1	3792843	NonCancerChronicDerived_Inh	1.62E-03
135	ALL	354023.1	3792593	NonCancerChronicDerived_Inh	1.61E-03
745	ALL	354523.1	3793068	NonCancerChronicDerived_Inh	1.61E-03
265	ALL	354173.1	3792693	NonCancerChronicDerived_Inh	1.61E-03
330	ALL	354248.1	3792743	NonCancerChronicDerived_Inh	1.61E-03
521	ALL	354373.1	3792893	NonCancerChronicDerived_Inh	1.61E-03
1670	ALL	353340.5	3793010	NonCancerChronicDerived_Inh	1.61E-03
1613	ALL	353365.5	3792960	NonCancerChronicDerived_Inh	1.61E-03
37	ALL	353898.1	3792518	NonCancerChronicDerived_Inh	1.61E-03
585	ALL	354423.1	3792943	NonCancerChronicDerived_Inh	1.60E-03
200	ALL	354098.1	3792643	NonCancerChronicDerived_Inh	1.60E-03
1727	ALL	353315.5	3793060	NonCancerChronicDerived_Inh	1.60E-03
4	ALL	353848.1	3792493	NonCancerChronicDerived_Inh	1.60E-03
553	ALL	354398.1	3792918	NonCancerChronicDerived_Inh	1.60E-03
362	ALL	354273.1	3792768	NonCancerChronicDerived_Inh	1.59E-03
70	ALL	353948.1	3792543	NonCancerChronicDerived_Inh	1.59E-03
617	ALL	354448.1	3792968	NonCancerChronicDerived_Inh	1.59E-03
1905	ALL	353265.5	3793210	NonCancerChronicDerived_Inh	1.59E-03
1328	ALL	353490.5	3792710	NonCancerChronicDerived_Inh	1.59E-03
778	ALL	354548.1	3793093	NonCancerChronicDerived_Inh	1.59E-03
1187	ALL	353590.5	3792585	NonCancerChronicDerived_Inh	1.59E-03
298	ALL	354223.1	3792718	NonCancerChronicDerived_Inh	1.59E-03
1159	ALL	353615.5	3792560	NonCancerChronicDerived_Inh	1.58E-03
1816	ALL	353290.5	3793135	NonCancerChronicDerived_Inh	1.58E-03
168	ALL	354073.1	3792618	NonCancerChronicDerived_Inh	1.58E-03
649	ALL	354473.1	3792993	NonCancerChronicDerived_Inh	1.58E-03
1527	ALL	353390.5	3792885	NonCancerChronicDerived_Inh	1.58E-03
1215	ALL	353565.5	3792610	NonCancerChronicDerived_Inh	1.58E-03
1470	ALL	353415.5	3792835	NonCancerChronicDerived_Inh	1.58E-03
103	ALL	353998.1	3792568	NonCancerChronicDerived_Inh	1.58E-03

233	ALL	354148.1	3792668	NonCancerChronicDerived_Inh	1.57E-03
394	ALL	354298.1	3792793	NonCancerChronicDerived_Inh	1.57E-03
1413	ALL	353440.5	3792785	NonCancerChronicDerived_Inh	1.57E-03
1641	ALL	353340.5	3792985	NonCancerChronicDerived_Inh	1.57E-03
1584	ALL	353365.5	3792935	NonCancerChronicDerived_Inh	1.57E-03
299	ALL	354248.1	3792718	NonCancerChronicDerived_Inh	1.57E-03
1131	ALL	353640.5	3792535	NonCancerChronicDerived_Inh	1.57E-03
331	ALL	354273.1	3792743	NonCancerChronicDerived_Inh	1.57E-03
681	ALL	354498.1	3793018	NonCancerChronicDerived_Inh	1.56E-03
1243	ALL	353540.5	3792635	NonCancerChronicDerived_Inh	1.56E-03
1786	ALL	353290.5	3793110	NonCancerChronicDerived_Inh	1.56E-03
266	ALL	354198.1	3792693	NonCancerChronicDerived_Inh	1.56E-03
1875	ALL	353265.5	3793185	NonCancerChronicDerived_Inh	1.56E-03
426	ALL	354323.1	3792818	NonCancerChronicDerived_Inh	1.56E-03
136	ALL	354048.1	3792593	NonCancerChronicDerived_Inh	1.56E-03
458	ALL	354348.1	3792843	NonCancerChronicDerived_Inh	1.56E-03
1698	ALL	353315.5	3793035	NonCancerChronicDerived_Inh	1.56E-03
713	ALL	354523.1	3793043	NonCancerChronicDerived_Inh	1.56E-03
1356	ALL	353465.5	3792735	NonCancerChronicDerived_Inh	1.55E-03
201	ALL	354123.1	3792643	NonCancerChronicDerived_Inh	1.55E-03
5	ALL	353873.1	3792493	NonCancerChronicDerived_Inh	1.55E-03
38	ALL	353923.1	3792518	NonCancerChronicDerived_Inh	1.55E-03
490	ALL	354373.1	3792868	NonCancerChronicDerived_Inh	1.55E-03
554	ALL	354423.1	3792918	NonCancerChronicDerived_Inh	1.54E-03
1756	ALL	353290.5	3793085	NonCancerChronicDerived_Inh	1.54E-03
1271	ALL	353515.5	3792660	NonCancerChronicDerived_Inh	1.54E-03
71	ALL	353973.1	3792543	NonCancerChronicDerived_Inh	1.54E-03
746	ALL	354548.1	3793068	NonCancerChronicDerived_Inh	1.54E-03
363	ALL	354298.1	3792768	NonCancerChronicDerived_Inh	1.54E-03
522	ALL	354398.1	3792893	NonCancerChronicDerived_Inh	1.54E-03
1103	ALL	353665.5	3792510	NonCancerChronicDerived_Inh	1.54E-03
234	ALL	354173.1	3792668	NonCancerChronicDerived_Inh	1.53E-03
586	ALL	354448.1	3792943	NonCancerChronicDerived_Inh	1.53E-03
1498	ALL	353390.5	3792860	NonCancerChronicDerived_Inh	1.53E-03
169	ALL	354098.1	3792618	NonCancerChronicDerived_Inh	1.53E-03
1555	ALL	353365.5	3792910	NonCancerChronicDerived_Inh	1.53E-03
1845	ALL	353265.5	3793160	NonCancerChronicDerived_Inh	1.53E-03
104	ALL	354023.1	3792568	NonCancerChronicDerived_Inh	1.53E-03
618	ALL	354473.1	3792968	NonCancerChronicDerived_Inh	1.53E-03
1441	ALL	353415.5	3792810	NonCancerChronicDerived_Inh	1.52E-03
1612	ALL	353340.5	3792960	NonCancerChronicDerived_Inh	1.52E-03
267	ALL	354223.1	3792693	NonCancerChronicDerived_Inh	1.52E-03
1669	ALL	353315.5	3793010	NonCancerChronicDerived_Inh	1.52E-03
300	ALL	354273.1	3792718	NonCancerChronicDerived_Inh	1.51E-03
650	ALL	354498.1	3792993	NonCancerChronicDerived_Inh	1.51E-03
1299	ALL	353490.5	3792685	NonCancerChronicDerived_Inh	1.51E-03
395	ALL	354323.1	3792793	NonCancerChronicDerived_Inh	1.51E-03

137	ALL	354073.1	3792593	NonCancerChronicDerived_Inh	1.51E-03
332	ALL	354298.1	3792743	NonCancerChronicDerived_Inh	1.51E-03
1384	ALL	353440.5	3792760	NonCancerChronicDerived_Inh	1.51E-03
1726	ALL	353290.5	3793060	NonCancerChronicDerived_Inh	1.51E-03
1904	ALL	353240.5	3793210	NonCancerChronicDerived_Inh	1.50E-03
427	ALL	354348.1	3792818	NonCancerChronicDerived_Inh	1.50E-03
6	ALL	353898.1	3792493	NonCancerChronicDerived_Inh	1.50E-03
202	ALL	354148.1	3792643	NonCancerChronicDerived_Inh	1.50E-03
39	ALL	353948.1	3792518	NonCancerChronicDerived_Inh	1.50E-03
682	ALL	354523.1	3793018	NonCancerChronicDerived_Inh	1.50E-03
1815	ALL	353265.5	3793135	NonCancerChronicDerived_Inh	1.49E-03
459	ALL	354373.1	3792843	NonCancerChronicDerived_Inh	1.49E-03
72	ALL	353998.1	3792543	NonCancerChronicDerived_Inh	1.49E-03
714	ALL	354548.1	3793043	NonCancerChronicDerived_Inh	1.49E-03
1526	ALL	353365.5	3792885	NonCancerChronicDerived_Inh	1.49E-03
268	ALL	354248.1	3792693	NonCancerChronicDerived_Inh	1.48E-03
235	ALL	354198.1	3792668	NonCancerChronicDerived_Inh	1.48E-03
523	ALL	354423.1	3792893	NonCancerChronicDerived_Inh	1.48E-03
1327	ALL	353465.5	3792710	NonCancerChronicDerived_Inh	1.48E-03
1469	ALL	353390.5	3792835	NonCancerChronicDerived_Inh	1.48E-03
170	ALL	354123.1	3792618	NonCancerChronicDerived_Inh	1.48E-03
491	ALL	354398.1	3792868	NonCancerChronicDerived_Inh	1.48E-03
364	ALL	354323.1	3792768	NonCancerChronicDerived_Inh	1.48E-03
105	ALL	354048.1	3792568	NonCancerChronicDerived_Inh	1.48E-03
1640	ALL	353315.5	3792985	NonCancerChronicDerived_Inh	1.48E-03
1186	ALL	353565.5	3792585	NonCancerChronicDerived_Inh	1.48E-03
1158	ALL	353590.5	3792560	NonCancerChronicDerived_Inh	1.48E-03
555	ALL	354448.1	3792918	NonCancerChronicDerived_Inh	1.48E-03
1583	ALL	353340.5	3792935	NonCancerChronicDerived_Inh	1.47E-03
1874	ALL	353240.5	3793185	NonCancerChronicDerived_Inh	1.47E-03
1785	ALL	353265.5	3793110	NonCancerChronicDerived_Inh	1.47E-03
1214	ALL	353540.5	3792610	NonCancerChronicDerived_Inh	1.47E-03
587	ALL	354473.1	3792943	NonCancerChronicDerived_Inh	1.47E-03
1697	ALL	353290.5	3793035	NonCancerChronicDerived_Inh	1.47E-03
1130	ALL	353615.5	3792535	NonCancerChronicDerived_Inh	1.47E-03
1412	ALL	353415.5	3792785	NonCancerChronicDerived_Inh	1.47E-03
138	ALL	354098.1	3792593	NonCancerChronicDerived_Inh	1.46E-03
619	ALL	354498.1	3792968	NonCancerChronicDerived_Inh	1.46E-03
1242	ALL	353515.5	3792635	NonCancerChronicDerived_Inh	1.46E-03
301	ALL	354298.1	3792718	NonCancerChronicDerived_Inh	1.46E-03
333	ALL	354323.1	3792743	NonCancerChronicDerived_Inh	1.46E-03
396	ALL	354348.1	3792793	NonCancerChronicDerived_Inh	1.45E-03
7	ALL	353923.1	3792493	NonCancerChronicDerived_Inh	1.45E-03
651	ALL	354523.1	3792993	NonCancerChronicDerived_Inh	1.45E-03
40	ALL	353973.1	3792518	NonCancerChronicDerived_Inh	1.45E-03
203	ALL	354173.1	3792643	NonCancerChronicDerived_Inh	1.45E-03
1755	ALL	353265.5	3793085	NonCancerChronicDerived_Inh	1.45E-03

1355	ALL	353440.5	3792735	NonCancerChronicDerived_Inh	1.45E-03
1102	ALL	353640.5	3792510	NonCancerChronicDerived_Inh	1.45E-03
269	ALL	354273.1	3792693	NonCancerChronicDerived_Inh	1.45E-03
73	ALL	354023.1	3792543	NonCancerChronicDerived_Inh	1.45E-03
1611	ALL	353315.5	3792960	NonCancerChronicDerived_Inh	1.44E-03
1844	ALL	353240.5	3793160	NonCancerChronicDerived_Inh	1.44E-03
1497	ALL	353365.5	3792860	NonCancerChronicDerived_Inh	1.44E-03
236	ALL	354223.1	3792668	NonCancerChronicDerived_Inh	1.44E-03
428	ALL	354373.1	3792818	NonCancerChronicDerived_Inh	1.44E-03
1270	ALL	353490.5	3792660	NonCancerChronicDerived_Inh	1.44E-03
106	ALL	354073.1	3792568	NonCancerChronicDerived_Inh	1.44E-03
1554	ALL	353340.5	3792910	NonCancerChronicDerived_Inh	1.44E-03
171	ALL	354148.1	3792618	NonCancerChronicDerived_Inh	1.44E-03
1668	ALL	353290.5	3793010	NonCancerChronicDerived_Inh	1.43E-03
1440	ALL	353390.5	3792810	NonCancerChronicDerived_Inh	1.43E-03
460	ALL	354398.1	3792843	NonCancerChronicDerived_Inh	1.43E-03
492	ALL	354423.1	3792868	NonCancerChronicDerived_Inh	1.43E-03
1903	ALL	353215.5	3793210	NonCancerChronicDerived_Inh	1.42E-03
1725	ALL	353265.5	3793060	NonCancerChronicDerived_Inh	1.42E-03
524	ALL	354448.1	3792893	NonCancerChronicDerived_Inh	1.42E-03
139	ALL	354123.1	3792593	NonCancerChronicDerived_Inh	1.42E-03
556	ALL	354473.1	3792918	NonCancerChronicDerived_Inh	1.42E-03
1298	ALL	353465.5	3792685	NonCancerChronicDerived_Inh	1.41E-03
365	ALL	354348.1	3792768	NonCancerChronicDerived_Inh	1.41E-03
8	ALL	353948.1	3792493	NonCancerChronicDerived_Inh	1.41E-03
1814	ALL	353240.5	3793135	NonCancerChronicDerived_Inh	1.41E-03
1383	ALL	353415.5	3792760	NonCancerChronicDerived_Inh	1.41E-03
41	ALL	353998.1	3792518	NonCancerChronicDerived_Inh	1.41E-03
302	ALL	354323.1	3792718	NonCancerChronicDerived_Inh	1.41E-03
588	ALL	354498.1	3792943	NonCancerChronicDerived_Inh	1.41E-03
204	ALL	354198.1	3792643	NonCancerChronicDerived_Inh	1.41E-03
620	ALL	354523.1	3792968	NonCancerChronicDerived_Inh	1.40E-03
74	ALL	354048.1	3792543	NonCancerChronicDerived_Inh	1.40E-03
1525	ALL	353340.5	3792885	NonCancerChronicDerived_Inh	1.40E-03
237	ALL	354248.1	3792668	NonCancerChronicDerived_Inh	1.40E-03
1582	ALL	353315.5	3792935	NonCancerChronicDerived_Inh	1.40E-03
1639	ALL	353290.5	3792985	NonCancerChronicDerived_Inh	1.40E-03
1873	ALL	353215.5	3793185	NonCancerChronicDerived_Inh	1.40E-03
1468	ALL	353365.5	3792835	NonCancerChronicDerived_Inh	1.40E-03
107	ALL	354098.1	3792568	NonCancerChronicDerived_Inh	1.39E-03
1784	ALL	353240.5	3793110	NonCancerChronicDerived_Inh	1.39E-03
397	ALL	354373.1	3792793	NonCancerChronicDerived_Inh	1.39E-03
1326	ALL	353440.5	3792710	NonCancerChronicDerived_Inh	1.39E-03
172	ALL	354173.1	3792618	NonCancerChronicDerived_Inh	1.39E-03
1696	ALL	353265.5	3793035	NonCancerChronicDerived_Inh	1.39E-03
1157	ALL	353565.5	3792560	NonCancerChronicDerived_Inh	1.39E-03
1185	ALL	353540.5	3792585	NonCancerChronicDerived_Inh	1.38E-03

270	ALL	354298.1	3792693	NonCancerChronicDerived_Inh	1.38E-03
429	ALL	354398.1	3792818	NonCancerChronicDerived_Inh	1.38E-03
1129	ALL	353590.5	3792535	NonCancerChronicDerived_Inh	1.38E-03
461	ALL	354423.1	3792843	NonCancerChronicDerived_Inh	1.38E-03
1411	ALL	353390.5	3792785	NonCancerChronicDerived_Inh	1.38E-03
334	ALL	354348.1	3792743	NonCancerChronicDerived_Inh	1.38E-03
1213	ALL	353515.5	3792610	NonCancerChronicDerived_Inh	1.38E-03
9	ALL	353973.1	3792493	NonCancerChronicDerived_Inh	1.38E-03
140	ALL	354148.1	3792593	NonCancerChronicDerived_Inh	1.38E-03
1754	ALL	353240.5	3793085	NonCancerChronicDerived_Inh	1.37E-03
42	ALL	354023.1	3792518	NonCancerChronicDerived_Inh	1.37E-03
1101	ALL	353615.5	3792510	NonCancerChronicDerived_Inh	1.37E-03
238	ALL	354273.1	3792668	NonCancerChronicDerived_Inh	1.37E-03
493	ALL	354448.1	3792868	NonCancerChronicDerived_Inh	1.37E-03
1843	ALL	353215.5	3793160	NonCancerChronicDerived_Inh	1.37E-03
1610	ALL	353290.5	3792960	NonCancerChronicDerived_Inh	1.37E-03
525	ALL	354473.1	3792893	NonCancerChronicDerived_Inh	1.37E-03
1241	ALL	353490.5	3792635	NonCancerChronicDerived_Inh	1.36E-03
75	ALL	354073.1	3792543	NonCancerChronicDerived_Inh	1.36E-03
1354	ALL	353415.5	3792735	NonCancerChronicDerived_Inh	1.36E-03
1496	ALL	353340.5	3792860	NonCancerChronicDerived_Inh	1.36E-03
205	ALL	354223.1	3792643	NonCancerChronicDerived_Inh	1.36E-03
557	ALL	354498.1	3792918	NonCancerChronicDerived_Inh	1.36E-03
1553	ALL	353315.5	3792910	NonCancerChronicDerived_Inh	1.36E-03
1667	ALL	353265.5	3793010	NonCancerChronicDerived_Inh	1.35E-03
589	ALL	354523.1	3792943	NonCancerChronicDerived_Inh	1.35E-03
108	ALL	354123.1	3792568	NonCancerChronicDerived_Inh	1.35E-03
1902	ALL	353190.5	3793210	NonCancerChronicDerived_Inh	1.35E-03
1439	ALL	353365.5	3792810	NonCancerChronicDerived_Inh	1.35E-03
1269	ALL	353465.5	3792660	NonCancerChronicDerived_Inh	1.35E-03
271	ALL	354323.1	3792693	NonCancerChronicDerived_Inh	1.35E-03
173	ALL	354198.1	3792618	NonCancerChronicDerived_Inh	1.35E-03
1724	ALL	353240.5	3793060	NonCancerChronicDerived_Inh	1.35E-03
303	ALL	354348.1	3792718	NonCancerChronicDerived_Inh	1.34E-03
366	ALL	354373.1	3792768	NonCancerChronicDerived_Inh	1.34E-03
10	ALL	353998.1	3792493	NonCancerChronicDerived_Inh	1.34E-03
1813	ALL	353215.5	3793135	NonCancerChronicDerived_Inh	1.34E-03
398	ALL	354398.1	3792793	NonCancerChronicDerived_Inh	1.34E-03
141	ALL	354173.1	3792593	NonCancerChronicDerived_Inh	1.34E-03
43	ALL	354048.1	3792518	NonCancerChronicDerived_Inh	1.33E-03
430	ALL	354423.1	3792818	NonCancerChronicDerived_Inh	1.33E-03
1581	ALL	353290.5	3792935	NonCancerChronicDerived_Inh	1.33E-03
1382	ALL	353390.5	3792760	NonCancerChronicDerived_Inh	1.33E-03
1297	ALL	353440.5	3792685	NonCancerChronicDerived_Inh	1.33E-03
76	ALL	354098.1	3792543	NonCancerChronicDerived_Inh	1.33E-03
1872	ALL	353190.5	3793185	NonCancerChronicDerived_Inh	1.32E-03
462	ALL	354448.1	3792843	NonCancerChronicDerived_Inh	1.32E-03

1638	ALL	353265.5	3792985	NonCancerChronicDerived_Inh	1.32E-03
206	ALL	354248.1	3792643	NonCancerChronicDerived_Inh	1.32E-03
1783	ALL	353215.5	3793110	NonCancerChronicDerived_Inh	1.32E-03
1524	ALL	353315.5	3792885	NonCancerChronicDerived_Inh	1.32E-03
1467	ALL	353340.5	3792835	NonCancerChronicDerived_Inh	1.32E-03
494	ALL	354473.1	3792868	NonCancerChronicDerived_Inh	1.32E-03
1695	ALL	353240.5	3793035	NonCancerChronicDerived_Inh	1.32E-03
239	ALL	354298.1	3792668	NonCancerChronicDerived_Inh	1.31E-03
526	ALL	354498.1	3792893	NonCancerChronicDerived_Inh	1.31E-03
109	ALL	354148.1	3792568	NonCancerChronicDerived_Inh	1.31E-03
1325	ALL	353415.5	3792710	NonCancerChronicDerived_Inh	1.31E-03
558	ALL	354523.1	3792918	NonCancerChronicDerived_Inh	1.31E-03
11	ALL	354023.1	3792493	NonCancerChronicDerived_Inh	1.31E-03
1156	ALL	353540.5	3792560	NonCancerChronicDerived_Inh	1.31E-03
174	ALL	354223.1	3792618	NonCancerChronicDerived_Inh	1.30E-03
1128	ALL	353565.5	3792535	NonCancerChronicDerived_Inh	1.30E-03
1184	ALL	353515.5	3792585	NonCancerChronicDerived_Inh	1.30E-03
335	ALL	354373.1	3792743	NonCancerChronicDerived_Inh	1.30E-03
1410	ALL	353365.5	3792785	NonCancerChronicDerived_Inh	1.30E-03
1753	ALL	353215.5	3793085	NonCancerChronicDerived_Inh	1.30E-03
44	ALL	354073.1	3792518	NonCancerChronicDerived_Inh	1.30E-03
1100	ALL	353590.5	3792510	NonCancerChronicDerived_Inh	1.30E-03
1842	ALL	353190.5	3793160	NonCancerChronicDerived_Inh	1.30E-03
142	ALL	354198.1	3792593	NonCancerChronicDerived_Inh	1.30E-03
1552	ALL	353290.5	3792910	NonCancerChronicDerived_Inh	1.30E-03
1212	ALL	353490.5	3792610	NonCancerChronicDerived_Inh	1.30E-03
1609	ALL	353265.5	3792960	NonCancerChronicDerived_Inh	1.29E-03
207	ALL	354273.1	3792643	NonCancerChronicDerived_Inh	1.29E-03
367	ALL	354398.1	3792768	NonCancerChronicDerived_Inh	1.29E-03
1495	ALL	353315.5	3792860	NonCancerChronicDerived_Inh	1.29E-03
272	ALL	354348.1	3792693	NonCancerChronicDerived_Inh	1.29E-03
399	ALL	354423.1	3792793	NonCancerChronicDerived_Inh	1.29E-03
77	ALL	354123.1	3792543	NonCancerChronicDerived_Inh	1.29E-03
1353	ALL	353390.5	3792735	NonCancerChronicDerived_Inh	1.29E-03
1666	ALL	353240.5	3793010	NonCancerChronicDerived_Inh	1.28E-03
1240	ALL	353465.5	3792635	NonCancerChronicDerived_Inh	1.28E-03
1901	ALL	353165.5	3793210	NonCancerChronicDerived_Inh	1.28E-03
431	ALL	354448.1	3792818	NonCancerChronicDerived_Inh	1.28E-03
240	ALL	354323.1	3792668	NonCancerChronicDerived_Inh	1.28E-03
1723	ALL	353215.5	3793060	NonCancerChronicDerived_Inh	1.28E-03
110	ALL	354173.1	3792568	NonCancerChronicDerived_Inh	1.28E-03
1438	ALL	353340.5	3792810	NonCancerChronicDerived_Inh	1.28E-03
463	ALL	354473.1	3792843	NonCancerChronicDerived_Inh	1.27E-03
12	ALL	354048.1	3792493	NonCancerChronicDerived_Inh	1.27E-03
1812	ALL	353190.5	3793135	NonCancerChronicDerived_Inh	1.27E-03
304	ALL	354373.1	3792718	NonCancerChronicDerived_Inh	1.27E-03
1268	ALL	353440.5	3792660	NonCancerChronicDerived_Inh	1.27E-03

495	ALL	354498.1	3792868	NonCancerChronicDerived_Inh	1.27E-03
45	ALL	354098.1	3792518	NonCancerChronicDerived_Inh	1.27E-03
527	ALL	354523.1	3792893	NonCancerChronicDerived_Inh	1.27E-03
175	ALL	354248.1	3792618	NonCancerChronicDerived_Inh	1.26E-03
1580	ALL	353265.5	3792935	NonCancerChronicDerived_Inh	1.26E-03
1871	ALL	353165.5	3793185	NonCancerChronicDerived_Inh	1.26E-03
1381	ALL	353365.5	3792760	NonCancerChronicDerived_Inh	1.26E-03
143	ALL	354223.1	3792593	NonCancerChronicDerived_Inh	1.26E-03
1296	ALL	353415.5	3792685	NonCancerChronicDerived_Inh	1.25E-03
1637	ALL	353240.5	3792985	NonCancerChronicDerived_Inh	1.25E-03
78	ALL	354148.1	3792543	NonCancerChronicDerived_Inh	1.25E-03
1782	ALL	353190.5	3793110	NonCancerChronicDerived_Inh	1.25E-03
1466	ALL	353315.5	3792835	NonCancerChronicDerived_Inh	1.25E-03
1523	ALL	353290.5	3792885	NonCancerChronicDerived_Inh	1.25E-03
1694	ALL	353215.5	3793035	NonCancerChronicDerived_Inh	1.25E-03
336	ALL	354398.1	3792743	NonCancerChronicDerived_Inh	1.25E-03
208	ALL	354298.1	3792643	NonCancerChronicDerived_Inh	1.25E-03
368	ALL	354423.1	3792768	NonCancerChronicDerived_Inh	1.25E-03
400	ALL	354448.1	3792793	NonCancerChronicDerived_Inh	1.24E-03
13	ALL	354073.1	3792493	NonCancerChronicDerived_Inh	1.24E-03
111	ALL	354198.1	3792568	NonCancerChronicDerived_Inh	1.24E-03
1324	ALL	353390.5	3792710	NonCancerChronicDerived_Inh	1.24E-03
1841	ALL	353165.5	3793160	NonCancerChronicDerived_Inh	1.24E-03
1752	ALL	353190.5	3793085	NonCancerChronicDerived_Inh	1.24E-03
1155	ALL	353515.5	3792560	NonCancerChronicDerived_Inh	1.23E-03
1127	ALL	353540.5	3792535	NonCancerChronicDerived_Inh	1.23E-03
1409	ALL	353340.5	3792785	NonCancerChronicDerived_Inh	1.23E-03
1551	ALL	353265.5	3792910	NonCancerChronicDerived_Inh	1.23E-03
46	ALL	354123.1	3792518	NonCancerChronicDerived_Inh	1.23E-03
432	ALL	354473.1	3792818	NonCancerChronicDerived_Inh	1.23E-03
241	ALL	354348.1	3792668	NonCancerChronicDerived_Inh	1.23E-03
1099	ALL	353565.5	3792510	NonCancerChronicDerived_Inh	1.23E-03
1183	ALL	353490.5	3792585	NonCancerChronicDerived_Inh	1.23E-03
1608	ALL	353240.5	3792960	NonCancerChronicDerived_Inh	1.23E-03
464	ALL	354498.1	3792843	NonCancerChronicDerived_Inh	1.23E-03
176	ALL	354273.1	3792618	NonCancerChronicDerived_Inh	1.23E-03
496	ALL	354523.1	3792868	NonCancerChronicDerived_Inh	1.23E-03
1211	ALL	353465.5	3792610	NonCancerChronicDerived_Inh	1.22E-03
1900	ALL	353140.5	3793210	NonCancerChronicDerived_Inh	1.22E-03
79	ALL	354173.1	3792543	NonCancerChronicDerived_Inh	1.22E-03
144	ALL	354248.1	3792593	NonCancerChronicDerived_Inh	1.22E-03
1665	ALL	353215.5	3793010	NonCancerChronicDerived_Inh	1.22E-03
1494	ALL	353290.5	3792860	NonCancerChronicDerived_Inh	1.22E-03
273	ALL	354373.1	3792693	NonCancerChronicDerived_Inh	1.22E-03
1352	ALL	353365.5	3792735	NonCancerChronicDerived_Inh	1.21E-03
1239	ALL	353440.5	3792635	NonCancerChronicDerived_Inh	1.21E-03
1722	ALL	353190.5	3793060	NonCancerChronicDerived_Inh	1.21E-03

1811	ALL	353165.5	3793135	NonCancerChronicDerived_Inh	1.21E-03
1437	ALL	353315.5	3792810	NonCancerChronicDerived_Inh	1.21E-03
14	ALL	354098.1	3792493	NonCancerChronicDerived_Inh	1.21E-03
209	ALL	354323.1	3792643	NonCancerChronicDerived_Inh	1.21E-03
337	ALL	354423.1	3792743	NonCancerChronicDerived_Inh	1.21E-03
305	ALL	354398.1	3792718	NonCancerChronicDerived_Inh	1.20E-03
112	ALL	354223.1	3792568	NonCancerChronicDerived_Inh	1.20E-03
369	ALL	354448.1	3792768	NonCancerChronicDerived_Inh	1.20E-03
1267	ALL	353415.5	3792660	NonCancerChronicDerived_Inh	1.20E-03
1870	ALL	353140.5	3793185	NonCancerChronicDerived_Inh	1.20E-03
47	ALL	354148.1	3792518	NonCancerChronicDerived_Inh	1.20E-03
1522	ALL	353265.5	3792885	NonCancerChronicDerived_Inh	1.20E-03
1579	ALL	353240.5	3792935	NonCancerChronicDerived_Inh	1.20E-03
1781	ALL	353165.5	3793110	NonCancerChronicDerived_Inh	1.20E-03
401	ALL	354473.1	3792793	NonCancerChronicDerived_Inh	1.19E-03
1380	ALL	353340.5	3792760	NonCancerChronicDerived_Inh	1.19E-03
1636	ALL	353215.5	3792985	NonCancerChronicDerived_Inh	1.19E-03
177	ALL	354298.1	3792618	NonCancerChronicDerived_Inh	1.19E-03
1693	ALL	353190.5	3793035	NonCancerChronicDerived_Inh	1.19E-03
1295	ALL	353390.5	3792685	NonCancerChronicDerived_Inh	1.19E-03
433	ALL	354498.1	3792818	NonCancerChronicDerived_Inh	1.19E-03
80	ALL	354198.1	3792543	NonCancerChronicDerived_Inh	1.19E-03
1465	ALL	353290.5	3792835	NonCancerChronicDerived_Inh	1.19E-03
145	ALL	354273.1	3792593	NonCancerChronicDerived_Inh	1.18E-03
465	ALL	354523.1	3792843	NonCancerChronicDerived_Inh	1.18E-03
15	ALL	354123.1	3792493	NonCancerChronicDerived_Inh	1.18E-03
1840	ALL	353140.5	3793160	NonCancerChronicDerived_Inh	1.18E-03
1751	ALL	353165.5	3793085	NonCancerChronicDerived_Inh	1.18E-03
210	ALL	354348.1	3792643	NonCancerChronicDerived_Inh	1.17E-03
1408	ALL	353315.5	3792785	NonCancerChronicDerived_Inh	1.17E-03
1126	ALL	353515.5	3792535	NonCancerChronicDerived_Inh	1.17E-03
1550	ALL	353240.5	3792910	NonCancerChronicDerived_Inh	1.17E-03
48	ALL	354173.1	3792518	NonCancerChronicDerived_Inh	1.17E-03
1154	ALL	353490.5	3792560	NonCancerChronicDerived_Inh	1.17E-03
242	ALL	354373.1	3792668	NonCancerChronicDerived_Inh	1.17E-03
1323	ALL	353365.5	3792710	NonCancerChronicDerived_Inh	1.17E-03
113	ALL	354248.1	3792568	NonCancerChronicDerived_Inh	1.17E-03
1098	ALL	353540.5	3792510	NonCancerChronicDerived_Inh	1.17E-03
306	ALL	354423.1	3792718	NonCancerChronicDerived_Inh	1.17E-03
1182	ALL	353465.5	3792585	NonCancerChronicDerived_Inh	1.17E-03
1899	ALL	353115.5	3793210	NonCancerChronicDerived_Inh	1.17E-03
1607	ALL	353215.5	3792960	NonCancerChronicDerived_Inh	1.17E-03
274	ALL	354398.1	3792693	NonCancerChronicDerived_Inh	1.16E-03
338	ALL	354448.1	3792743	NonCancerChronicDerived_Inh	1.16E-03
1210	ALL	353440.5	3792610	NonCancerChronicDerived_Inh	1.16E-03
1664	ALL	353190.5	3793010	NonCancerChronicDerived_Inh	1.16E-03
1810	ALL	353140.5	3793135	NonCancerChronicDerived_Inh	1.16E-03

178	ALL	354323.1	3792618	NonCancerChronicDerived_Inh	1.16E-03
370	ALL	354473.1	3792768	NonCancerChronicDerived_Inh	1.16E-03
1721	ALL	353165.5	3793060	NonCancerChronicDerived_Inh	1.16E-03
81	ALL	354223.1	3792543	NonCancerChronicDerived_Inh	1.15E-03
1493	ALL	353265.5	3792860	NonCancerChronicDerived_Inh	1.15E-03
1436	ALL	353290.5	3792810	NonCancerChronicDerived_Inh	1.15E-03
146	ALL	354298.1	3792593	NonCancerChronicDerived_Inh	1.15E-03
1238	ALL	353415.5	3792635	NonCancerChronicDerived_Inh	1.15E-03
1351	ALL	353340.5	3792735	NonCancerChronicDerived_Inh	1.15E-03
402	ALL	354498.1	3792793	NonCancerChronicDerived_Inh	1.15E-03
16	ALL	354148.1	3792493	NonCancerChronicDerived_Inh	1.15E-03
434	ALL	354523.1	3792818	NonCancerChronicDerived_Inh	1.15E-03
1869	ALL	353115.5	3793185	NonCancerChronicDerived_Inh	1.15E-03
1521	ALL	353240.5	3792885	NonCancerChronicDerived_Inh	1.14E-03
1266	ALL	353390.5	3792660	NonCancerChronicDerived_Inh	1.14E-03
49	ALL	354198.1	3792518	NonCancerChronicDerived_Inh	1.14E-03
1578	ALL	353215.5	3792935	NonCancerChronicDerived_Inh	1.14E-03
1780	ALL	353140.5	3793110	NonCancerChronicDerived_Inh	1.14E-03
114	ALL	354273.1	3792568	NonCancerChronicDerived_Inh	1.14E-03
1379	ALL	353315.5	3792760	NonCancerChronicDerived_Inh	1.14E-03
1635	ALL	353190.5	3792985	NonCancerChronicDerived_Inh	1.14E-03
1692	ALL	353165.5	3793035	NonCancerChronicDerived_Inh	1.13E-03
275	ALL	354423.1	3792693	NonCancerChronicDerived_Inh	1.13E-03
211	ALL	354373.1	3792643	NonCancerChronicDerived_Inh	1.13E-03
307	ALL	354448.1	3792718	NonCancerChronicDerived_Inh	1.13E-03
1294	ALL	353365.5	3792685	NonCancerChronicDerived_Inh	1.13E-03
1839	ALL	353115.5	3793160	NonCancerChronicDerived_Inh	1.13E-03
17	ALL	354173.1	3792493	NonCancerChronicDerived_Inh	1.12E-03
243	ALL	354398.1	3792668	NonCancerChronicDerived_Inh	1.12E-03
1464	ALL	353265.5	3792835	NonCancerChronicDerived_Inh	1.12E-03
82	ALL	354248.1	3792543	NonCancerChronicDerived_Inh	1.12E-03
179	ALL	354348.1	3792618	NonCancerChronicDerived_Inh	1.12E-03
339	ALL	354473.1	3792743	NonCancerChronicDerived_Inh	1.12E-03
1750	ALL	353140.5	3793085	NonCancerChronicDerived_Inh	1.12E-03
147	ALL	354323.1	3792593	NonCancerChronicDerived_Inh	1.12E-03
1407	ALL	353290.5	3792785	NonCancerChronicDerived_Inh	1.12E-03
1125	ALL	353490.5	3792535	NonCancerChronicDerived_Inh	1.11E-03
403	ALL	354523.1	3792793	NonCancerChronicDerived_Inh	1.11E-03
1898	ALL	353090.5	3793210	NonCancerChronicDerived_Inh	1.11E-03
1549	ALL	353215.5	3792910	NonCancerChronicDerived_Inh	1.11E-03
1153	ALL	353465.5	3792560	NonCancerChronicDerived_Inh	1.11E-03
1097	ALL	353515.5	3792510	NonCancerChronicDerived_Inh	1.11E-03
371	ALL	354498.1	3792768	NonCancerChronicDerived_Inh	1.11E-03
1322	ALL	353340.5	3792710	NonCancerChronicDerived_Inh	1.11E-03
1492	ALL	353240.5	3792860	NonCancerChronicDerived_Inh	1.11E-03
1181	ALL	353440.5	3792585	NonCancerChronicDerived_Inh	1.11E-03
1606	ALL	353190.5	3792960	NonCancerChronicDerived_Inh	1.11E-03

50	ALL	354223.1	3792518	NonCancerChronicDerived_Inh	1.11E-03
1663	ALL	353165.5	3793010	NonCancerChronicDerived_Inh	1.11E-03
1209	ALL	353415.5	3792610	NonCancerChronicDerived_Inh	1.11E-03
115	ALL	354298.1	3792568	NonCancerChronicDerived_Inh	1.11E-03
1809	ALL	353115.5	3793135	NonCancerChronicDerived_Inh	1.10E-03
1720	ALL	353140.5	3793060	NonCancerChronicDerived_Inh	1.10E-03
1350	ALL	353315.5	3792735	NonCancerChronicDerived_Inh	1.10E-03
18	ALL	354198.1	3792493	NonCancerChronicDerived_Inh	1.10E-03
1868	ALL	353090.5	3793185	NonCancerChronicDerived_Inh	1.10E-03
1435	ALL	353265.5	3792810	NonCancerChronicDerived_Inh	1.10E-03
1237	ALL	353390.5	3792635	NonCancerChronicDerived_Inh	1.09E-03
276	ALL	354448.1	3792693	NonCancerChronicDerived_Inh	1.09E-03
244	ALL	354423.1	3792668	NonCancerChronicDerived_Inh	1.09E-03
83	ALL	354273.1	3792543	NonCancerChronicDerived_Inh	1.09E-03
1520	ALL	353215.5	3792885	NonCancerChronicDerived_Inh	1.09E-03
1779	ALL	353115.5	3793110	NonCancerChronicDerived_Inh	1.09E-03
1577	ALL	353190.5	3792935	NonCancerChronicDerived_Inh	1.09E-03
180	ALL	354373.1	3792618	NonCancerChronicDerived_Inh	1.09E-03
212	ALL	354398.1	3792643	NonCancerChronicDerived_Inh	1.08E-03
1265	ALL	353365.5	3792660	NonCancerChronicDerived_Inh	1.08E-03
148	ALL	354348.1	3792593	NonCancerChronicDerived_Inh	1.08E-03
308	ALL	354473.1	3792718	NonCancerChronicDerived_Inh	1.08E-03
1634	ALL	353165.5	3792985	NonCancerChronicDerived_Inh	1.08E-03
1378	ALL	353290.5	3792760	NonCancerChronicDerived_Inh	1.08E-03
372	ALL	354523.1	3792768	NonCancerChronicDerived_Inh	1.08E-03
51	ALL	354248.1	3792518	NonCancerChronicDerived_Inh	1.08E-03
1691	ALL	353140.5	3793035	NonCancerChronicDerived_Inh	1.08E-03
340	ALL	354498.1	3792743	NonCancerChronicDerived_Inh	1.08E-03
1838	ALL	353090.5	3793160	NonCancerChronicDerived_Inh	1.08E-03
116	ALL	354323.1	3792568	NonCancerChronicDerived_Inh	1.07E-03
1293	ALL	353340.5	3792685	NonCancerChronicDerived_Inh	1.07E-03
19	ALL	354223.1	3792493	NonCancerChronicDerived_Inh	1.07E-03
1463	ALL	353240.5	3792835	NonCancerChronicDerived_Inh	1.07E-03
1749	ALL	353115.5	3793085	NonCancerChronicDerived_Inh	1.07E-03
1897	ALL	353065.5	3793210	NonCancerChronicDerived_Inh	1.07E-03
1406	ALL	353265.5	3792785	NonCancerChronicDerived_Inh	1.06E-03
1124	ALL	353465.5	3792535	NonCancerChronicDerived_Inh	1.06E-03
1096	ALL	353490.5	3792510	NonCancerChronicDerived_Inh	1.06E-03
1152	ALL	353440.5	3792560	NonCancerChronicDerived_Inh	1.06E-03
1548	ALL	353190.5	3792910	NonCancerChronicDerived_Inh	1.06E-03
1321	ALL	353315.5	3792710	NonCancerChronicDerived_Inh	1.06E-03
1605	ALL	353165.5	3792960	NonCancerChronicDerived_Inh	1.06E-03
84	ALL	354298.1	3792543	NonCancerChronicDerived_Inh	1.06E-03
1491	ALL	353215.5	3792860	NonCancerChronicDerived_Inh	1.06E-03
1180	ALL	353415.5	3792585	NonCancerChronicDerived_Inh	1.06E-03
1662	ALL	353140.5	3793010	NonCancerChronicDerived_Inh	1.06E-03
1808	ALL	353090.5	3793135	NonCancerChronicDerived_Inh	1.06E-03

245	ALL	354448.1	3792668	NonCancerChronicDerived_Inh	1.06E-03
1208	ALL	353390.5	3792610	NonCancerChronicDerived_Inh	1.05E-03
52	ALL	354273.1	3792518	NonCancerChronicDerived_Inh	1.05E-03
277	ALL	354473.1	3792693	NonCancerChronicDerived_Inh	1.05E-03
149	ALL	354373.1	3792593	NonCancerChronicDerived_Inh	1.05E-03
213	ALL	354423.1	3792643	NonCancerChronicDerived_Inh	1.05E-03
181	ALL	354398.1	3792618	NonCancerChronicDerived_Inh	1.05E-03
1719	ALL	353115.5	3793060	NonCancerChronicDerived_Inh	1.05E-03
1867	ALL	353065.5	3793185	NonCancerChronicDerived_Inh	1.05E-03
1349	ALL	353290.5	3792735	NonCancerChronicDerived_Inh	1.05E-03
341	ALL	354523.1	3792743	NonCancerChronicDerived_Inh	1.05E-03
117	ALL	354348.1	3792568	NonCancerChronicDerived_Inh	1.04E-03
1236	ALL	353365.5	3792635	NonCancerChronicDerived_Inh	1.04E-03
20	ALL	354248.1	3792493	NonCancerChronicDerived_Inh	1.04E-03
1778	ALL	353090.5	3793110	NonCancerChronicDerived_Inh	1.04E-03
309	ALL	354498.1	3792718	NonCancerChronicDerived_Inh	1.04E-03
1576	ALL	353165.5	3792935	NonCancerChronicDerived_Inh	1.04E-03
1434	ALL	353240.5	3792810	NonCancerChronicDerived_Inh	1.04E-03
1519	ALL	353190.5	3792885	NonCancerChronicDerived_Inh	1.04E-03
1633	ALL	353140.5	3792985	NonCancerChronicDerived_Inh	1.03E-03
1264	ALL	353340.5	3792660	NonCancerChronicDerived_Inh	1.03E-03
1377	ALL	353265.5	3792760	NonCancerChronicDerived_Inh	1.03E-03
85	ALL	354323.1	3792543	NonCancerChronicDerived_Inh	1.03E-03
1462	ALL	353215.5	3792835	NonCancerChronicDerived_Inh	1.03E-03
1690	ALL	353115.5	3793035	NonCancerChronicDerived_Inh	1.03E-03
1837	ALL	353065.5	3793160	NonCancerChronicDerived_Inh	1.03E-03
1292	ALL	353315.5	3792685	NonCancerChronicDerived_Inh	1.03E-03
1748	ALL	353090.5	3793085	NonCancerChronicDerived_Inh	1.02E-03
53	ALL	354298.1	3792518	NonCancerChronicDerived_Inh	1.02E-03
1896	ALL	353040.5	3793210	NonCancerChronicDerived_Inh	1.02E-03
150	ALL	354398.1	3792593	NonCancerChronicDerived_Inh	1.02E-03
246	ALL	354473.1	3792668	NonCancerChronicDerived_Inh	1.02E-03
1123	ALL	353440.5	3792535	NonCancerChronicDerived_Inh	1.02E-03
1547	ALL	353165.5	3792910	NonCancerChronicDerived_Inh	1.02E-03
1095	ALL	353465.5	3792510	NonCancerChronicDerived_Inh	1.02E-03
1151	ALL	353415.5	3792560	NonCancerChronicDerived_Inh	1.02E-03
21	ALL	354273.1	3792493	NonCancerChronicDerived_Inh	1.02E-03
214	ALL	354448.1	3792643	NonCancerChronicDerived_Inh	1.02E-03
1490	ALL	353190.5	3792860	NonCancerChronicDerived_Inh	1.02E-03
1604	ALL	353140.5	3792960	NonCancerChronicDerived_Inh	1.01E-03
310	ALL	354523.1	3792718	NonCancerChronicDerived_Inh	1.01E-03
1320	ALL	353290.5	3792710	NonCancerChronicDerived_Inh	1.01E-03
182	ALL	354423.1	3792618	NonCancerChronicDerived_Inh	1.01E-03
1405	ALL	353240.5	3792785	NonCancerChronicDerived_Inh	1.01E-03
118	ALL	354373.1	3792568	NonCancerChronicDerived_Inh	1.01E-03
1179	ALL	353390.5	3792585	NonCancerChronicDerived_Inh	1.01E-03
1807	ALL	353065.5	3793135	NonCancerChronicDerived_Inh	1.01E-03

1661	ALL	353115.5	3793010	NonCancerChronicDerived_Inh	1.01E-03
278	ALL	354498.1	3792693	NonCancerChronicDerived_Inh	1.01E-03
1718	ALL	353090.5	3793060	NonCancerChronicDerived_Inh	1.01E-03
1207	ALL	353365.5	3792610	NonCancerChronicDerived_Inh	1.00E-03
1866	ALL	353040.5	3793185	NonCancerChronicDerived_Inh	1.00E-03
86	ALL	354348.1	3792543	NonCancerChronicDerived_Inh	1.00E-03
1348	ALL	353265.5	3792735	NonCancerChronicDerived_Inh	1.00E-03
1777	ALL	353065.5	3793110	NonCancerChronicDerived_Inh	9.99E-04
1235	ALL	353340.5	3792635	NonCancerChronicDerived_Inh	9.97E-04
1433	ALL	353215.5	3792810	NonCancerChronicDerived_Inh	9.95E-04
1518	ALL	353165.5	3792885	NonCancerChronicDerived_Inh	9.95E-04
1575	ALL	353140.5	3792935	NonCancerChronicDerived_Inh	9.95E-04
54	ALL	354323.1	3792518	NonCancerChronicDerived_Inh	9.94E-04
1632	ALL	353115.5	3792985	NonCancerChronicDerived_Inh	9.90E-04
1263	ALL	353315.5	3792660	NonCancerChronicDerived_Inh	9.90E-04
1689	ALL	353090.5	3793035	NonCancerChronicDerived_Inh	9.89E-04
22	ALL	354298.1	3792493	NonCancerChronicDerived_Inh	9.88E-04
1461	ALL	353190.5	3792835	NonCancerChronicDerived_Inh	9.87E-04
1836	ALL	353040.5	3793160	NonCancerChronicDerived_Inh	9.86E-04
1376	ALL	353240.5	3792760	NonCancerChronicDerived_Inh	9.86E-04
151	ALL	354423.1	3792593	NonCancerChronicDerived_Inh	9.84E-04
1747	ALL	353065.5	3793085	NonCancerChronicDerived_Inh	9.84E-04
119	ALL	354398.1	3792568	NonCancerChronicDerived_Inh	9.83E-04
279	ALL	354523.1	3792693	NonCancerChronicDerived_Inh	9.82E-04
215	ALL	354473.1	3792643	NonCancerChronicDerived_Inh	9.81E-04
247	ALL	354498.1	3792668	NonCancerChronicDerived_Inh	9.81E-04
1291	ALL	353290.5	3792685	NonCancerChronicDerived_Inh	9.81E-04
183	ALL	354448.1	3792618	NonCancerChronicDerived_Inh	9.81E-04
1895	ALL	353015.5	3793210	NonCancerChronicDerived_Inh	9.78E-04
1122	ALL	353415.5	3792535	NonCancerChronicDerived_Inh	9.75E-04
1094	ALL	353440.5	3792510	NonCancerChronicDerived_Inh	9.75E-04
1546	ALL	353140.5	3792910	NonCancerChronicDerived_Inh	9.74E-04
1150	ALL	353390.5	3792560	NonCancerChronicDerived_Inh	9.73E-04
87	ALL	354373.1	3792543	NonCancerChronicDerived_Inh	9.73E-04
1489	ALL	353165.5	3792860	NonCancerChronicDerived_Inh	9.72E-04
1603	ALL	353115.5	3792960	NonCancerChronicDerived_Inh	9.71E-04
1806	ALL	353040.5	3793135	NonCancerChronicDerived_Inh	9.70E-04
1319	ALL	353265.5	3792710	NonCancerChronicDerived_Inh	9.70E-04
1660	ALL	353090.5	3793010	NonCancerChronicDerived_Inh	9.69E-04
1178	ALL	353365.5	3792585	NonCancerChronicDerived_Inh	9.68E-04
1717	ALL	353065.5	3793060	NonCancerChronicDerived_Inh	9.67E-04
1404	ALL	353215.5	3792785	NonCancerChronicDerived_Inh	9.65E-04
55	ALL	354348.1	3792518	NonCancerChronicDerived_Inh	9.65E-04
1206	ALL	353340.5	3792610	NonCancerChronicDerived_Inh	9.63E-04
1865	ALL	353015.5	3793185	NonCancerChronicDerived_Inh	9.63E-04
23	ALL	354323.1	3792493	NonCancerChronicDerived_Inh	9.61E-04
1432	ALL	353190.5	3792810	NonCancerChronicDerived_Inh	9.60E-04

1776	ALL	353040.5	3793110	NonCancerChronicDerived_Inh	9.57E-04
1347	ALL	353240.5	3792735	NonCancerChronicDerived_Inh	9.57E-04
1234	ALL	353315.5	3792635	NonCancerChronicDerived_Inh	9.56E-04
152	ALL	354448.1	3792593	NonCancerChronicDerived_Inh	9.55E-04
1517	ALL	353140.5	3792885	NonCancerChronicDerived_Inh	9.53E-04
120	ALL	354423.1	3792568	NonCancerChronicDerived_Inh	9.53E-04
248	ALL	354523.1	3792668	NonCancerChronicDerived_Inh	9.53E-04
1574	ALL	353115.5	3792935	NonCancerChronicDerived_Inh	9.52E-04
216	ALL	354498.1	3792643	NonCancerChronicDerived_Inh	9.51E-04
1688	ALL	353065.5	3793035	NonCancerChronicDerived_Inh	9.49E-04
1631	ALL	353090.5	3792985	NonCancerChronicDerived_Inh	9.49E-04
184	ALL	354473.1	3792618	NonCancerChronicDerived_Inh	9.49E-04
1262	ALL	353290.5	3792660	NonCancerChronicDerived_Inh	9.48E-04
1835	ALL	353015.5	3793160	NonCancerChronicDerived_Inh	9.46E-04
88	ALL	354398.1	3792543	NonCancerChronicDerived_Inh	9.45E-04
1460	ALL	353165.5	3792835	NonCancerChronicDerived_Inh	9.45E-04
1746	ALL	353040.5	3793085	NonCancerChronicDerived_Inh	9.44E-04
1375	ALL	353215.5	3792760	NonCancerChronicDerived_Inh	9.42E-04
1290	ALL	353265.5	3792685	NonCancerChronicDerived_Inh	9.39E-04
56	ALL	354373.1	3792518	NonCancerChronicDerived_Inh	9.39E-04
1093	ALL	353415.5	3792510	NonCancerChronicDerived_Inh	9.37E-04
1121	ALL	353390.5	3792535	NonCancerChronicDerived_Inh	9.36E-04
1545	ALL	353115.5	3792910	NonCancerChronicDerived_Inh	9.33E-04
1403	ALL	353190.5	3792785	NonCancerChronicDerived_Inh	9.33E-04
1149	ALL	353365.5	3792560	NonCancerChronicDerived_Inh	9.32E-04
24	ALL	354348.1	3792493	NonCancerChronicDerived_Inh	9.32E-04
1602	ALL	353090.5	3792960	NonCancerChronicDerived_Inh	9.31E-04
1805	ALL	353015.5	3793135	NonCancerChronicDerived_Inh	9.31E-04
1488	ALL	353140.5	3792860	NonCancerChronicDerived_Inh	9.31E-04
1659	ALL	353065.5	3793010	NonCancerChronicDerived_Inh	9.30E-04
1318	ALL	353240.5	3792710	NonCancerChronicDerived_Inh	9.29E-04
1177	ALL	353340.5	3792585	NonCancerChronicDerived_Inh	9.28E-04
1716	ALL	353040.5	3793060	NonCancerChronicDerived_Inh	9.28E-04
121	ALL	354448.1	3792568	NonCancerChronicDerived_Inh	9.26E-04
1205	ALL	353315.5	3792610	NonCancerChronicDerived_Inh	9.25E-04
217	ALL	354523.1	3792643	NonCancerChronicDerived_Inh	9.22E-04
153	ALL	354473.1	3792593	NonCancerChronicDerived_Inh	9.22E-04
1431	ALL	353165.5	3792810	NonCancerChronicDerived_Inh	9.20E-04
185	ALL	354498.1	3792618	NonCancerChronicDerived_Inh	9.20E-04
1775	ALL	353015.5	3793110	NonCancerChronicDerived_Inh	9.19E-04
89	ALL	354423.1	3792543	NonCancerChronicDerived_Inh	9.18E-04
1233	ALL	353290.5	3792635	NonCancerChronicDerived_Inh	9.16E-04
57	ALL	354398.1	3792518	NonCancerChronicDerived_Inh	9.14E-04
1346	ALL	353215.5	3792735	NonCancerChronicDerived_Inh	9.13E-04
1516	ALL	353115.5	3792885	NonCancerChronicDerived_Inh	9.13E-04
1573	ALL	353090.5	3792935	NonCancerChronicDerived_Inh	9.13E-04
1687	ALL	353040.5	3793035	NonCancerChronicDerived_Inh	9.11E-04

25	ALL	354373.1	3792493	NonCancerChronicDerived_Inh	9.11E-04
1630	ALL	353065.5	3792985	NonCancerChronicDerived_Inh	9.10E-04
1261	ALL	353265.5	3792660	NonCancerChronicDerived_Inh	9.09E-04
1459	ALL	353140.5	3792835	NonCancerChronicDerived_Inh	9.07E-04
1745	ALL	353015.5	3793085	NonCancerChronicDerived_Inh	9.05E-04
1374	ALL	353190.5	3792760	NonCancerChronicDerived_Inh	9.04E-04
1289	ALL	353240.5	3792685	NonCancerChronicDerived_Inh	9.01E-04
1092	ALL	353390.5	3792510	NonCancerChronicDerived_Inh	9.00E-04
1120	ALL	353365.5	3792535	NonCancerChronicDerived_Inh	8.98E-04
1402	ALL	353165.5	3792785	NonCancerChronicDerived_Inh	8.96E-04
1148	ALL	353340.5	3792560	NonCancerChronicDerived_Inh	8.95E-04
122	ALL	354473.1	3792568	NonCancerChronicDerived_Inh	8.95E-04
154	ALL	354498.1	3792593	NonCancerChronicDerived_Inh	8.94E-04
1544	ALL	353090.5	3792910	NonCancerChronicDerived_Inh	8.94E-04
1176	ALL	353315.5	3792585	NonCancerChronicDerived_Inh	8.94E-04
90	ALL	354448.1	3792543	NonCancerChronicDerived_Inh	8.93E-04
1601	ALL	353065.5	3792960	NonCancerChronicDerived_Inh	8.93E-04
1658	ALL	353040.5	3793010	NonCancerChronicDerived_Inh	8.92E-04
186	ALL	354523.1	3792618	NonCancerChronicDerived_Inh	8.92E-04
1715	ALL	353015.5	3793060	NonCancerChronicDerived_Inh	8.91E-04
1487	ALL	353115.5	3792860	NonCancerChronicDerived_Inh	8.90E-04
58	ALL	354423.1	3792518	NonCancerChronicDerived_Inh	8.88E-04
1204	ALL	353290.5	3792610	NonCancerChronicDerived_Inh	8.88E-04
1317	ALL	353215.5	3792710	NonCancerChronicDerived_Inh	8.87E-04
26	ALL	354398.1	3792493	NonCancerChronicDerived_Inh	8.87E-04
1430	ALL	353140.5	3792810	NonCancerChronicDerived_Inh	8.83E-04
1232	ALL	353265.5	3792635	NonCancerChronicDerived_Inh	8.80E-04
1686	ALL	353015.5	3793035	NonCancerChronicDerived_Inh	8.75E-04
1572	ALL	353065.5	3792935	NonCancerChronicDerived_Inh	8.75E-04
1515	ALL	353090.5	3792885	NonCancerChronicDerived_Inh	8.74E-04
1629	ALL	353040.5	3792985	NonCancerChronicDerived_Inh	8.74E-04
1260	ALL	353240.5	3792660	NonCancerChronicDerived_Inh	8.73E-04
1373	ALL	353165.5	3792760	NonCancerChronicDerived_Inh	8.71E-04
1345	ALL	353190.5	3792735	NonCancerChronicDerived_Inh	8.70E-04
1458	ALL	353115.5	3792835	NonCancerChronicDerived_Inh	8.69E-04
91	ALL	354473.1	3792543	NonCancerChronicDerived_Inh	8.68E-04
155	ALL	354523.1	3792593	NonCancerChronicDerived_Inh	8.68E-04
123	ALL	354498.1	3792568	NonCancerChronicDerived_Inh	8.68E-04
1091	ALL	353365.5	3792510	NonCancerChronicDerived_Inh	8.66E-04
59	ALL	354448.1	3792518	NonCancerChronicDerived_Inh	8.65E-04
1119	ALL	353340.5	3792535	NonCancerChronicDerived_Inh	8.64E-04
1147	ALL	353315.5	3792560	NonCancerChronicDerived_Inh	8.63E-04
27	ALL	354423.1	3792493	NonCancerChronicDerived_Inh	8.63E-04
1288	ALL	353215.5	3792685	NonCancerChronicDerived_Inh	8.63E-04
1401	ALL	353140.5	3792785	NonCancerChronicDerived_Inh	8.60E-04
1175	ALL	353290.5	3792585	NonCancerChronicDerived_Inh	8.60E-04
1600	ALL	353040.5	3792960	NonCancerChronicDerived_Inh	8.60E-04

1657	ALL	353015.5	3793010	NonCancerChronicDerived_Inh	8.57E-04
1543	ALL	353065.5	3792910	NonCancerChronicDerived_Inh	8.57E-04
1486	ALL	353090.5	3792860	NonCancerChronicDerived_Inh	8.54E-04
1203	ALL	353265.5	3792610	NonCancerChronicDerived_Inh	8.53E-04
1429	ALL	353115.5	3792810	NonCancerChronicDerived_Inh	8.48E-04
1344	ALL	353165.5	3792735	NonCancerChronicDerived_Inh	8.47E-04
1231	ALL	353240.5	3792635	NonCancerChronicDerived_Inh	8.46E-04
1316	ALL	353190.5	3792710	NonCancerChronicDerived_Inh	8.45E-04
1571	ALL	353040.5	3792935	NonCancerChronicDerived_Inh	8.44E-04
124	ALL	354523.1	3792568	NonCancerChronicDerived_Inh	8.43E-04
60	ALL	354473.1	3792518	NonCancerChronicDerived_Inh	8.42E-04
92	ALL	354498.1	3792543	NonCancerChronicDerived_Inh	8.42E-04
28	ALL	354448.1	3792493	NonCancerChronicDerived_Inh	8.41E-04
1628	ALL	353015.5	3792985	NonCancerChronicDerived_Inh	8.40E-04
1259	ALL	353215.5	3792660	NonCancerChronicDerived_Inh	8.38E-04
1514	ALL	353065.5	3792885	NonCancerChronicDerived_Inh	8.38E-04
1372	ALL	353140.5	3792760	NonCancerChronicDerived_Inh	8.38E-04
1457	ALL	353090.5	3792835	NonCancerChronicDerived_Inh	8.34E-04
1118	ALL	353315.5	3792535	NonCancerChronicDerived_Inh	8.34E-04
1090	ALL	353340.5	3792510	NonCancerChronicDerived_Inh	8.34E-04
1146	ALL	353290.5	3792560	NonCancerChronicDerived_Inh	8.32E-04
1174	ALL	353265.5	3792585	NonCancerChronicDerived_Inh	8.27E-04
1400	ALL	353115.5	3792785	NonCancerChronicDerived_Inh	8.27E-04
1542	ALL	353040.5	3792910	NonCancerChronicDerived_Inh	8.27E-04
1599	ALL	353015.5	3792960	NonCancerChronicDerived_Inh	8.26E-04
1287	ALL	353190.5	3792685	NonCancerChronicDerived_Inh	8.26E-04
1315	ALL	353165.5	3792710	NonCancerChronicDerived_Inh	8.22E-04
1202	ALL	353240.5	3792610	NonCancerChronicDerived_Inh	8.21E-04
93	ALL	354523.1	3792543	NonCancerChronicDerived_Inh	8.20E-04
1485	ALL	353065.5	3792860	NonCancerChronicDerived_Inh	8.20E-04
61	ALL	354498.1	3792518	NonCancerChronicDerived_Inh	8.19E-04
29	ALL	354473.1	3792493	NonCancerChronicDerived_Inh	8.19E-04
1428	ALL	353090.5	3792810	NonCancerChronicDerived_Inh	8.15E-04
1230	ALL	353215.5	3792635	NonCancerChronicDerived_Inh	8.14E-04
1343	ALL	353140.5	3792735	NonCancerChronicDerived_Inh	8.14E-04
1570	ALL	353015.5	3792935	NonCancerChronicDerived_Inh	8.12E-04
1513	ALL	353040.5	3792885	NonCancerChronicDerived_Inh	8.09E-04
1089	ALL	353315.5	3792510	NonCancerChronicDerived_Inh	8.06E-04
1371	ALL	353115.5	3792760	NonCancerChronicDerived_Inh	8.06E-04
1117	ALL	353290.5	3792535	NonCancerChronicDerived_Inh	8.05E-04
1258	ALL	353190.5	3792660	NonCancerChronicDerived_Inh	8.05E-04
1145	ALL	353265.5	3792560	NonCancerChronicDerived_Inh	8.02E-04
1456	ALL	353065.5	3792835	NonCancerChronicDerived_Inh	8.01E-04
1286	ALL	353165.5	3792685	NonCancerChronicDerived_Inh	8.00E-04
62	ALL	354523.1	3792518	NonCancerChronicDerived_Inh	7.98E-04
30	ALL	354498.1	3792493	NonCancerChronicDerived_Inh	7.98E-04
1541	ALL	353015.5	3792910	NonCancerChronicDerived_Inh	7.96E-04

1173	ALL	353240.5	3792585	NonCancerChronicDerived_Inh	7.96E-04
1399	ALL	353090.5	3792785	NonCancerChronicDerived_Inh	7.95E-04
1314	ALL	353140.5	3792710	NonCancerChronicDerived_Inh	7.94E-04
1484	ALL	353040.5	3792860	NonCancerChronicDerived_Inh	7.92E-04
1201	ALL	353215.5	3792610	NonCancerChronicDerived_Inh	7.91E-04
1342	ALL	353115.5	3792735	NonCancerChronicDerived_Inh	7.84E-04
1427	ALL	353065.5	3792810	NonCancerChronicDerived_Inh	7.83E-04
1229	ALL	353190.5	3792635	NonCancerChronicDerived_Inh	7.83E-04
1512	ALL	353015.5	3792885	NonCancerChronicDerived_Inh	7.80E-04
1088	ALL	353290.5	3792510	NonCancerChronicDerived_Inh	7.79E-04
1257	ALL	353165.5	3792660	NonCancerChronicDerived_Inh	7.78E-04
31	ALL	354523.1	3792493	NonCancerChronicDerived_Inh	7.77E-04
1116	ALL	353265.5	3792535	NonCancerChronicDerived_Inh	7.77E-04
1370	ALL	353090.5	3792760	NonCancerChronicDerived_Inh	7.76E-04
1455	ALL	353040.5	3792835	NonCancerChronicDerived_Inh	7.75E-04
1285	ALL	353140.5	3792685	NonCancerChronicDerived_Inh	7.74E-04
1144	ALL	353240.5	3792560	NonCancerChronicDerived_Inh	7.73E-04
1172	ALL	353215.5	3792585	NonCancerChronicDerived_Inh	7.67E-04
1313	ALL	353115.5	3792710	NonCancerChronicDerived_Inh	7.67E-04
1398	ALL	353065.5	3792785	NonCancerChronicDerived_Inh	7.65E-04
1483	ALL	353015.5	3792860	NonCancerChronicDerived_Inh	7.63E-04
1200	ALL	353190.5	3792610	NonCancerChronicDerived_Inh	7.60E-04
1426	ALL	353040.5	3792810	NonCancerChronicDerived_Inh	7.57E-04
1341	ALL	353090.5	3792735	NonCancerChronicDerived_Inh	7.56E-04
1228	ALL	353165.5	3792635	NonCancerChronicDerived_Inh	7.56E-04
1087	ALL	353265.5	3792510	NonCancerChronicDerived_Inh	7.52E-04
1256	ALL	353140.5	3792660	NonCancerChronicDerived_Inh	7.52E-04
1115	ALL	353240.5	3792535	NonCancerChronicDerived_Inh	7.51E-04
1454	ALL	353015.5	3792835	NonCancerChronicDerived_Inh	7.48E-04
1284	ALL	353115.5	3792685	NonCancerChronicDerived_Inh	7.48E-04
1369	ALL	353065.5	3792760	NonCancerChronicDerived_Inh	7.47E-04
1143	ALL	353215.5	3792560	NonCancerChronicDerived_Inh	7.45E-04
1312	ALL	353090.5	3792710	NonCancerChronicDerived_Inh	7.40E-04
1397	ALL	353040.5	3792785	NonCancerChronicDerived_Inh	7.39E-04
1199	ALL	353165.5	3792610	NonCancerChronicDerived_Inh	7.37E-04
1171	ALL	353190.5	3792585	NonCancerChronicDerived_Inh	7.34E-04
1227	ALL	353140.5	3792635	NonCancerChronicDerived_Inh	7.32E-04
1425	ALL	353015.5	3792810	NonCancerChronicDerived_Inh	7.30E-04
1340	ALL	353065.5	3792735	NonCancerChronicDerived_Inh	7.30E-04
1086	ALL	353240.5	3792510	NonCancerChronicDerived_Inh	7.27E-04
1255	ALL	353115.5	3792660	NonCancerChronicDerived_Inh	7.27E-04
1114	ALL	353215.5	3792535	NonCancerChronicDerived_Inh	7.24E-04
1283	ALL	353090.5	3792685	NonCancerChronicDerived_Inh	7.22E-04
1368	ALL	353040.5	3792760	NonCancerChronicDerived_Inh	7.22E-04
1170	ALL	353165.5	3792585	NonCancerChronicDerived_Inh	7.16E-04
1311	ALL	353065.5	3792710	NonCancerChronicDerived_Inh	7.15E-04
1198	ALL	353140.5	3792610	NonCancerChronicDerived_Inh	7.14E-04

1396	ALL	353015.5	3792785	NonCancerChronicDerived_Inh	7.14E-04
1142	ALL	353190.5	3792560	NonCancerChronicDerived_Inh	7.10E-04
1226	ALL	353115.5	3792635	NonCancerChronicDerived_Inh	7.08E-04
1339	ALL	353040.5	3792735	NonCancerChronicDerived_Inh	7.05E-04
1085	ALL	353215.5	3792510	NonCancerChronicDerived_Inh	7.04E-04
1254	ALL	353090.5	3792660	NonCancerChronicDerived_Inh	7.04E-04
1282	ALL	353065.5	3792685	NonCancerChronicDerived_Inh	6.98E-04
1367	ALL	353015.5	3792760	NonCancerChronicDerived_Inh	6.97E-04
1141	ALL	353165.5	3792560	NonCancerChronicDerived_Inh	6.97E-04
1169	ALL	353140.5	3792585	NonCancerChronicDerived_Inh	6.95E-04
1113	ALL	353190.5	3792535	NonCancerChronicDerived_Inh	6.93E-04
1197	ALL	353115.5	3792610	NonCancerChronicDerived_Inh	6.91E-04
1310	ALL	353040.5	3792710	NonCancerChronicDerived_Inh	6.91E-04
1225	ALL	353090.5	3792635	NonCancerChronicDerived_Inh	6.85E-04
1338	ALL	353015.5	3792735	NonCancerChronicDerived_Inh	6.81E-04
1253	ALL	353065.5	3792660	NonCancerChronicDerived_Inh	6.81E-04
1112	ALL	353165.5	3792535	NonCancerChronicDerived_Inh	6.78E-04
1084	ALL	353190.5	3792510	NonCancerChronicDerived_Inh	6.77E-04
1140	ALL	353140.5	3792560	NonCancerChronicDerived_Inh	6.76E-04
1281	ALL	353040.5	3792685	NonCancerChronicDerived_Inh	6.75E-04
1168	ALL	353115.5	3792585	NonCancerChronicDerived_Inh	6.73E-04
1309	ALL	353015.5	3792710	NonCancerChronicDerived_Inh	6.68E-04
1196	ALL	353090.5	3792610	NonCancerChronicDerived_Inh	6.68E-04
1224	ALL	353065.5	3792635	NonCancerChronicDerived_Inh	6.63E-04
1083	ALL	353165.5	3792510	NonCancerChronicDerived_Inh	6.60E-04
1252	ALL	353040.5	3792660	NonCancerChronicDerived_Inh	6.59E-04
1111	ALL	353140.5	3792535	NonCancerChronicDerived_Inh	6.58E-04
1139	ALL	353115.5	3792560	NonCancerChronicDerived_Inh	6.56E-04
1280	ALL	353015.5	3792685	NonCancerChronicDerived_Inh	6.54E-04
1167	ALL	353090.5	3792585	NonCancerChronicDerived_Inh	6.50E-04
1195	ALL	353065.5	3792610	NonCancerChronicDerived_Inh	6.47E-04
1223	ALL	353040.5	3792635	NonCancerChronicDerived_Inh	6.43E-04
1082	ALL	353140.5	3792510	NonCancerChronicDerived_Inh	6.41E-04
1110	ALL	353115.5	3792535	NonCancerChronicDerived_Inh	6.38E-04
1251	ALL	353015.5	3792660	NonCancerChronicDerived_Inh	6.38E-04
1138	ALL	353090.5	3792560	NonCancerChronicDerived_Inh	6.34E-04
1166	ALL	353065.5	3792585	NonCancerChronicDerived_Inh	6.31E-04
1194	ALL	353040.5	3792610	NonCancerChronicDerived_Inh	6.28E-04
1222	ALL	353015.5	3792635	NonCancerChronicDerived_Inh	6.23E-04
1081	ALL	353115.5	3792510	NonCancerChronicDerived_Inh	6.22E-04
1109	ALL	353090.5	3792535	NonCancerChronicDerived_Inh	6.18E-04
1137	ALL	353065.5	3792560	NonCancerChronicDerived_Inh	6.17E-04
1165	ALL	353040.5	3792585	NonCancerChronicDerived_Inh	6.13E-04
1193	ALL	353015.5	3792610	NonCancerChronicDerived_Inh	6.10E-04
1080	ALL	353090.5	3792510	NonCancerChronicDerived_Inh	6.03E-04
1108	ALL	353065.5	3792535	NonCancerChronicDerived_Inh	6.02E-04
1136	ALL	353040.5	3792560	NonCancerChronicDerived_Inh	6.00E-04

1164	ALL	353015.5	3792585	NonCancerChronicDerived_Inh	5.96E-04
1079	ALL	353065.5	3792510	NonCancerChronicDerived_Inh	5.87E-04
1107	ALL	353040.5	3792535	NonCancerChronicDerived_Inh	5.86E-04
1135	ALL	353015.5	3792560	NonCancerChronicDerived_Inh	5.84E-04
1078	ALL	353040.5	3792510	NonCancerChronicDerived_Inh	5.72E-04
1106	ALL	353015.5	3792535	NonCancerChronicDerived_Inh	5.70E-04
1077	ALL	353015.5	3792510	NonCancerChronicDerived_Inh	5.57E-04

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*HARP - HRACalc v19044 10/9/2019 1:43:38 PM - Cancer Risk - Input File: P:\300.Environmenta

REC	GRP	X	Y	RISK_SUM	SCENARIO
1	ALL	353773.1	3792493	2.03E-06	6.5YrCancerDerived_Inh
2	ALL	353798.1	3792493	2.02E-06	6.5YrCancerDerived_Inh
3	ALL	353823.1	3792493	1.98E-06	6.5YrCancerDerived_Inh
4	ALL	353848.1	3792493	1.92E-06	6.5YrCancerDerived_Inh
5	ALL	353873.1	3792493	1.86E-06	6.5YrCancerDerived_Inh
6	ALL	353898.1	3792493	1.80E-06	6.5YrCancerDerived_Inh
7	ALL	353923.1	3792493	1.74E-06	6.5YrCancerDerived_Inh
8	ALL	353948.1	3792493	1.69E-06	6.5YrCancerDerived_Inh
9	ALL	353973.1	3792493	1.65E-06	6.5YrCancerDerived_Inh
10	ALL	353998.1	3792493	1.61E-06	6.5YrCancerDerived_Inh
11	ALL	354023.1	3792493	1.57E-06	6.5YrCancerDerived_Inh
12	ALL	354048.1	3792493	1.53E-06	6.5YrCancerDerived_Inh
13	ALL	354073.1	3792493	1.49E-06	6.5YrCancerDerived_Inh
14	ALL	354098.1	3792493	1.45E-06	6.5YrCancerDerived_Inh
15	ALL	354123.1	3792493	1.42E-06	6.5YrCancerDerived_Inh
16	ALL	354148.1	3792493	1.38E-06	6.5YrCancerDerived_Inh
17	ALL	354173.1	3792493	1.35E-06	6.5YrCancerDerived_Inh
18	ALL	354198.1	3792493	1.32E-06	6.5YrCancerDerived_Inh
19	ALL	354223.1	3792493	1.28E-06	6.5YrCancerDerived_Inh
20	ALL	354248.1	3792493	1.25E-06	6.5YrCancerDerived_Inh
21	ALL	354273.1	3792493	1.22E-06	6.5YrCancerDerived_Inh
22	ALL	354298.1	3792493	1.19E-06	6.5YrCancerDerived_Inh
23	ALL	354323.1	3792493	1.15E-06	6.5YrCancerDerived_Inh
24	ALL	354348.1	3792493	1.12E-06	6.5YrCancerDerived_Inh
25	ALL	354373.1	3792493	1.09E-06	6.5YrCancerDerived_Inh
26	ALL	354398.1	3792493	1.06E-06	6.5YrCancerDerived_Inh
27	ALL	354423.1	3792493	1.04E-06	6.5YrCancerDerived_Inh
28	ALL	354448.1	3792493	1.01E-06	6.5YrCancerDerived_Inh
29	ALL	354473.1	3792493	9.82E-07	6.5YrCancerDerived_Inh
30	ALL	354498.1	3792493	9.57E-07	6.5YrCancerDerived_Inh
31	ALL	354523.1	3792493	9.32E-07	6.5YrCancerDerived_Inh
32	ALL	353773.1	3792518	2.28E-06	6.5YrCancerDerived_Inh
33	ALL	353798.1	3792518	2.25E-06	6.5YrCancerDerived_Inh
34	ALL	353823.1	3792518	2.17E-06	6.5YrCancerDerived_Inh
35	ALL	353848.1	3792518	2.08E-06	6.5YrCancerDerived_Inh
36	ALL	353873.1	3792518	2.00E-06	6.5YrCancerDerived_Inh
37	ALL	353898.1	3792518	1.93E-06	6.5YrCancerDerived_Inh
38	ALL	353923.1	3792518	1.86E-06	6.5YrCancerDerived_Inh
39	ALL	353948.1	3792518	1.80E-06	6.5YrCancerDerived_Inh
40	ALL	353973.1	3792518	1.74E-06	6.5YrCancerDerived_Inh
41	ALL	353998.1	3792518	1.69E-06	6.5YrCancerDerived_Inh
42	ALL	354023.1	3792518	1.65E-06	6.5YrCancerDerived_Inh
43	ALL	354048.1	3792518	1.60E-06	6.5YrCancerDerived_Inh
44	ALL	354073.1	3792518	1.56E-06	6.5YrCancerDerived_Inh
45	ALL	354098.1	3792518	1.52E-06	6.5YrCancerDerived_Inh

46	ALL	354123.1	3792518	1.48E-06	6.5YrCancerDerived_Inh
47	ALL	354148.1	3792518	1.44E-06	6.5YrCancerDerived_Inh
48	ALL	354173.1	3792518	1.40E-06	6.5YrCancerDerived_Inh
49	ALL	354198.1	3792518	1.37E-06	6.5YrCancerDerived_Inh
50	ALL	354223.1	3792518	1.33E-06	6.5YrCancerDerived_Inh
51	ALL	354248.1	3792518	1.30E-06	6.5YrCancerDerived_Inh
52	ALL	354273.1	3792518	1.26E-06	6.5YrCancerDerived_Inh
53	ALL	354298.1	3792518	1.23E-06	6.5YrCancerDerived_Inh
54	ALL	354323.1	3792518	1.19E-06	6.5YrCancerDerived_Inh
55	ALL	354348.1	3792518	1.16E-06	6.5YrCancerDerived_Inh
56	ALL	354373.1	3792518	1.13E-06	6.5YrCancerDerived_Inh
57	ALL	354398.1	3792518	1.10E-06	6.5YrCancerDerived_Inh
58	ALL	354423.1	3792518	1.07E-06	6.5YrCancerDerived_Inh
59	ALL	354448.1	3792518	1.04E-06	6.5YrCancerDerived_Inh
60	ALL	354473.1	3792518	1.01E-06	6.5YrCancerDerived_Inh
61	ALL	354498.1	3792518	9.82E-07	6.5YrCancerDerived_Inh
62	ALL	354523.1	3792518	9.57E-07	6.5YrCancerDerived_Inh
63	ALL	353773.1	3792543	2.63E-06	6.5YrCancerDerived_Inh
64	ALL	353798.1	3792543	2.56E-06	6.5YrCancerDerived_Inh
65	ALL	353823.1	3792543	2.43E-06	6.5YrCancerDerived_Inh
66	ALL	353848.1	3792543	2.30E-06	6.5YrCancerDerived_Inh
67	ALL	353873.1	3792543	2.18E-06	6.5YrCancerDerived_Inh
68	ALL	353898.1	3792543	2.07E-06	6.5YrCancerDerived_Inh
69	ALL	353923.1	3792543	1.99E-06	6.5YrCancerDerived_Inh
70	ALL	353948.1	3792543	1.91E-06	6.5YrCancerDerived_Inh
71	ALL	353973.1	3792543	1.85E-06	6.5YrCancerDerived_Inh
72	ALL	353998.1	3792543	1.79E-06	6.5YrCancerDerived_Inh
73	ALL	354023.1	3792543	1.73E-06	6.5YrCancerDerived_Inh
74	ALL	354048.1	3792543	1.68E-06	6.5YrCancerDerived_Inh
75	ALL	354073.1	3792543	1.64E-06	6.5YrCancerDerived_Inh
76	ALL	354098.1	3792543	1.59E-06	6.5YrCancerDerived_Inh
77	ALL	354123.1	3792543	1.55E-06	6.5YrCancerDerived_Inh
78	ALL	354148.1	3792543	1.50E-06	6.5YrCancerDerived_Inh
79	ALL	354173.1	3792543	1.47E-06	6.5YrCancerDerived_Inh
80	ALL	354198.1	3792543	1.42E-06	6.5YrCancerDerived_Inh
81	ALL	354223.1	3792543	1.39E-06	6.5YrCancerDerived_Inh
82	ALL	354248.1	3792543	1.35E-06	6.5YrCancerDerived_Inh
83	ALL	354273.1	3792543	1.31E-06	6.5YrCancerDerived_Inh
84	ALL	354298.1	3792543	1.27E-06	6.5YrCancerDerived_Inh
85	ALL	354323.1	3792543	1.24E-06	6.5YrCancerDerived_Inh
86	ALL	354348.1	3792543	1.20E-06	6.5YrCancerDerived_Inh
87	ALL	354373.1	3792543	1.17E-06	6.5YrCancerDerived_Inh
88	ALL	354398.1	3792543	1.13E-06	6.5YrCancerDerived_Inh
89	ALL	354423.1	3792543	1.10E-06	6.5YrCancerDerived_Inh
90	ALL	354448.1	3792543	1.07E-06	6.5YrCancerDerived_Inh
91	ALL	354473.1	3792543	1.04E-06	6.5YrCancerDerived_Inh
92	ALL	354498.1	3792543	1.01E-06	6.5YrCancerDerived_Inh

93	ALL	354523.1	3792543	9.84E-07	6.5YrCancerDerived_Inh
94	ALL	353773.1	3792568	3.14E-06	6.5YrCancerDerived_Inh
95	ALL	353798.1	3792568	2.97E-06	6.5YrCancerDerived_Inh
96	ALL	353823.1	3792568	2.75E-06	6.5YrCancerDerived_Inh
97	ALL	353848.1	3792568	2.55E-06	6.5YrCancerDerived_Inh
98	ALL	353873.1	3792568	2.38E-06	6.5YrCancerDerived_Inh
99	ALL	353898.1	3792568	2.24E-06	6.5YrCancerDerived_Inh
100	ALL	353923.1	3792568	2.13E-06	6.5YrCancerDerived_Inh
101	ALL	353948.1	3792568	2.04E-06	6.5YrCancerDerived_Inh
102	ALL	353973.1	3792568	1.96E-06	6.5YrCancerDerived_Inh
103	ALL	353998.1	3792568	1.89E-06	6.5YrCancerDerived_Inh
104	ALL	354023.1	3792568	1.83E-06	6.5YrCancerDerived_Inh
105	ALL	354048.1	3792568	1.78E-06	6.5YrCancerDerived_Inh
106	ALL	354073.1	3792568	1.72E-06	6.5YrCancerDerived_Inh
107	ALL	354098.1	3792568	1.67E-06	6.5YrCancerDerived_Inh
108	ALL	354123.1	3792568	1.62E-06	6.5YrCancerDerived_Inh
109	ALL	354148.1	3792568	1.57E-06	6.5YrCancerDerived_Inh
110	ALL	354173.1	3792568	1.53E-06	6.5YrCancerDerived_Inh
111	ALL	354198.1	3792568	1.49E-06	6.5YrCancerDerived_Inh
112	ALL	354223.1	3792568	1.44E-06	6.5YrCancerDerived_Inh
113	ALL	354248.1	3792568	1.40E-06	6.5YrCancerDerived_Inh
114	ALL	354273.1	3792568	1.36E-06	6.5YrCancerDerived_Inh
115	ALL	354298.1	3792568	1.33E-06	6.5YrCancerDerived_Inh
116	ALL	354323.1	3792568	1.29E-06	6.5YrCancerDerived_Inh
117	ALL	354348.1	3792568	1.25E-06	6.5YrCancerDerived_Inh
118	ALL	354373.1	3792568	1.21E-06	6.5YrCancerDerived_Inh
119	ALL	354398.1	3792568	1.18E-06	6.5YrCancerDerived_Inh
120	ALL	354423.1	3792568	1.14E-06	6.5YrCancerDerived_Inh
121	ALL	354448.1	3792568	1.11E-06	6.5YrCancerDerived_Inh
122	ALL	354473.1	3792568	1.07E-06	6.5YrCancerDerived_Inh
123	ALL	354498.1	3792568	1.04E-06	6.5YrCancerDerived_Inh
124	ALL	354523.1	3792568	1.01E-06	6.5YrCancerDerived_Inh
125	ALL	353773.1	3792593	4.04E-06	6.5YrCancerDerived_Inh
126	ALL	353798.1	3792593	3.58E-06	6.5YrCancerDerived_Inh
127	ALL	353823.1	3792593	3.17E-06	6.5YrCancerDerived_Inh
128	ALL	353848.1	3792593	2.87E-06	6.5YrCancerDerived_Inh
129	ALL	353873.1	3792593	2.63E-06	6.5YrCancerDerived_Inh
130	ALL	353898.1	3792593	2.45E-06	6.5YrCancerDerived_Inh
131	ALL	353923.1	3792593	2.30E-06	6.5YrCancerDerived_Inh
132	ALL	353948.1	3792593	2.18E-06	6.5YrCancerDerived_Inh
133	ALL	353973.1	3792593	2.09E-06	6.5YrCancerDerived_Inh
134	ALL	353998.1	3792593	2.01E-06	6.5YrCancerDerived_Inh
135	ALL	354023.1	3792593	1.94E-06	6.5YrCancerDerived_Inh
136	ALL	354048.1	3792593	1.87E-06	6.5YrCancerDerived_Inh
137	ALL	354073.1	3792593	1.81E-06	6.5YrCancerDerived_Inh
138	ALL	354098.1	3792593	1.76E-06	6.5YrCancerDerived_Inh
139	ALL	354123.1	3792593	1.70E-06	6.5YrCancerDerived_Inh

140	ALL	354148.1	3792593	1.65E-06	6.5YrCancerDerived_Inh
141	ALL	354173.1	3792593	1.60E-06	6.5YrCancerDerived_Inh
142	ALL	354198.1	3792593	1.55E-06	6.5YrCancerDerived_Inh
143	ALL	354223.1	3792593	1.51E-06	6.5YrCancerDerived_Inh
144	ALL	354248.1	3792593	1.46E-06	6.5YrCancerDerived_Inh
145	ALL	354273.1	3792593	1.42E-06	6.5YrCancerDerived_Inh
146	ALL	354298.1	3792593	1.38E-06	6.5YrCancerDerived_Inh
147	ALL	354323.1	3792593	1.34E-06	6.5YrCancerDerived_Inh
148	ALL	354348.1	3792593	1.30E-06	6.5YrCancerDerived_Inh
149	ALL	354373.1	3792593	1.26E-06	6.5YrCancerDerived_Inh
150	ALL	354398.1	3792593	1.22E-06	6.5YrCancerDerived_Inh
151	ALL	354423.1	3792593	1.18E-06	6.5YrCancerDerived_Inh
152	ALL	354448.1	3792593	1.14E-06	6.5YrCancerDerived_Inh
153	ALL	354473.1	3792593	1.11E-06	6.5YrCancerDerived_Inh
154	ALL	354498.1	3792593	1.07E-06	6.5YrCancerDerived_Inh
155	ALL	354523.1	3792593	1.04E-06	6.5YrCancerDerived_Inh
156	ALL	353773.1	3792618	5.79E-06	6.5YrCancerDerived_Inh
157	ALL	353798.1	3792618	4.51E-06	6.5YrCancerDerived_Inh
158	ALL	353823.1	3792618	3.72E-06	6.5YrCancerDerived_Inh
159	ALL	353848.1	3792618	3.23E-06	6.5YrCancerDerived_Inh
160	ALL	353873.1	3792618	2.90E-06	6.5YrCancerDerived_Inh
161	ALL	353898.1	3792618	2.65E-06	6.5YrCancerDerived_Inh
162	ALL	353923.1	3792618	2.47E-06	6.5YrCancerDerived_Inh
163	ALL	353948.1	3792618	2.33E-06	6.5YrCancerDerived_Inh
164	ALL	353973.1	3792618	2.21E-06	6.5YrCancerDerived_Inh
165	ALL	353998.1	3792618	2.12E-06	6.5YrCancerDerived_Inh
166	ALL	354023.1	3792618	2.04E-06	6.5YrCancerDerived_Inh
167	ALL	354048.1	3792618	1.97E-06	6.5YrCancerDerived_Inh
168	ALL	354073.1	3792618	1.90E-06	6.5YrCancerDerived_Inh
169	ALL	354098.1	3792618	1.84E-06	6.5YrCancerDerived_Inh
170	ALL	354123.1	3792618	1.78E-06	6.5YrCancerDerived_Inh
171	ALL	354148.1	3792618	1.72E-06	6.5YrCancerDerived_Inh
172	ALL	354173.1	3792618	1.67E-06	6.5YrCancerDerived_Inh
173	ALL	354198.1	3792618	1.62E-06	6.5YrCancerDerived_Inh
174	ALL	354223.1	3792618	1.56E-06	6.5YrCancerDerived_Inh
175	ALL	354248.1	3792618	1.52E-06	6.5YrCancerDerived_Inh
176	ALL	354273.1	3792618	1.47E-06	6.5YrCancerDerived_Inh
177	ALL	354298.1	3792618	1.43E-06	6.5YrCancerDerived_Inh
178	ALL	354323.1	3792618	1.39E-06	6.5YrCancerDerived_Inh
179	ALL	354348.1	3792618	1.34E-06	6.5YrCancerDerived_Inh
180	ALL	354373.1	3792618	1.30E-06	6.5YrCancerDerived_Inh
181	ALL	354398.1	3792618	1.26E-06	6.5YrCancerDerived_Inh
182	ALL	354423.1	3792618	1.22E-06	6.5YrCancerDerived_Inh
183	ALL	354448.1	3792618	1.18E-06	6.5YrCancerDerived_Inh
184	ALL	354473.1	3792618	1.14E-06	6.5YrCancerDerived_Inh
185	ALL	354498.1	3792618	1.10E-06	6.5YrCancerDerived_Inh
186	ALL	354523.1	3792618	1.07E-06	6.5YrCancerDerived_Inh

187	ALL	353773.1	3792643	8.79E-06	6.5YrCancerDerived_Inh
188	ALL	353798.1	3792643	5.68E-06	6.5YrCancerDerived_Inh
189	ALL	353823.1	3792643	4.34E-06	6.5YrCancerDerived_Inh
190	ALL	353848.1	3792643	3.62E-06	6.5YrCancerDerived_Inh
191	ALL	353873.1	3792643	3.18E-06	6.5YrCancerDerived_Inh
192	ALL	353898.1	3792643	2.87E-06	6.5YrCancerDerived_Inh
193	ALL	353923.1	3792643	2.65E-06	6.5YrCancerDerived_Inh
194	ALL	353948.1	3792643	2.48E-06	6.5YrCancerDerived_Inh
195	ALL	353973.1	3792643	2.34E-06	6.5YrCancerDerived_Inh
196	ALL	353998.1	3792643	2.24E-06	6.5YrCancerDerived_Inh
197	ALL	354023.1	3792643	2.15E-06	6.5YrCancerDerived_Inh
198	ALL	354048.1	3792643	2.06E-06	6.5YrCancerDerived_Inh
199	ALL	354073.1	3792643	1.99E-06	6.5YrCancerDerived_Inh
200	ALL	354098.1	3792643	1.92E-06	6.5YrCancerDerived_Inh
201	ALL	354123.1	3792643	1.86E-06	6.5YrCancerDerived_Inh
202	ALL	354148.1	3792643	1.80E-06	6.5YrCancerDerived_Inh
203	ALL	354173.1	3792643	1.74E-06	6.5YrCancerDerived_Inh
204	ALL	354198.1	3792643	1.69E-06	6.5YrCancerDerived_Inh
205	ALL	354223.1	3792643	1.63E-06	6.5YrCancerDerived_Inh
206	ALL	354248.1	3792643	1.59E-06	6.5YrCancerDerived_Inh
207	ALL	354273.1	3792643	1.55E-06	6.5YrCancerDerived_Inh
208	ALL	354298.1	3792643	1.50E-06	6.5YrCancerDerived_Inh
209	ALL	354323.1	3792643	1.45E-06	6.5YrCancerDerived_Inh
210	ALL	354348.1	3792643	1.41E-06	6.5YrCancerDerived_Inh
211	ALL	354373.1	3792643	1.35E-06	6.5YrCancerDerived_Inh
212	ALL	354398.1	3792643	1.30E-06	6.5YrCancerDerived_Inh
213	ALL	354423.1	3792643	1.26E-06	6.5YrCancerDerived_Inh
214	ALL	354448.1	3792643	1.22E-06	6.5YrCancerDerived_Inh
215	ALL	354473.1	3792643	1.18E-06	6.5YrCancerDerived_Inh
216	ALL	354498.1	3792643	1.14E-06	6.5YrCancerDerived_Inh
217	ALL	354523.1	3792643	1.11E-06	6.5YrCancerDerived_Inh
218	ALL	353773.1	3792668	1.08E-05	6.5YrCancerDerived_Inh
219	ALL	353798.1	3792668	6.67E-06	6.5YrCancerDerived_Inh
220	ALL	353823.1	3792668	4.90E-06	6.5YrCancerDerived_Inh
221	ALL	353848.1	3792668	4.00E-06	6.5YrCancerDerived_Inh
222	ALL	353873.1	3792668	3.45E-06	6.5YrCancerDerived_Inh
223	ALL	353898.1	3792668	3.09E-06	6.5YrCancerDerived_Inh
224	ALL	353923.1	3792668	2.83E-06	6.5YrCancerDerived_Inh
225	ALL	353948.1	3792668	2.63E-06	6.5YrCancerDerived_Inh
226	ALL	353973.1	3792668	2.48E-06	6.5YrCancerDerived_Inh
227	ALL	353998.1	3792668	2.36E-06	6.5YrCancerDerived_Inh
228	ALL	354023.1	3792668	2.26E-06	6.5YrCancerDerived_Inh
229	ALL	354048.1	3792668	2.16E-06	6.5YrCancerDerived_Inh
230	ALL	354073.1	3792668	2.08E-06	6.5YrCancerDerived_Inh
231	ALL	354098.1	3792668	2.02E-06	6.5YrCancerDerived_Inh
232	ALL	354123.1	3792668	1.95E-06	6.5YrCancerDerived_Inh
233	ALL	354148.1	3792668	1.89E-06	6.5YrCancerDerived_Inh

234	ALL	354173.1	3792668	1.84E-06	6.5YrCancerDerived_Inh
235	ALL	354198.1	3792668	1.78E-06	6.5YrCancerDerived_Inh
236	ALL	354223.1	3792668	1.73E-06	6.5YrCancerDerived_Inh
237	ALL	354248.1	3792668	1.68E-06	6.5YrCancerDerived_Inh
238	ALL	354273.1	3792668	1.64E-06	6.5YrCancerDerived_Inh
239	ALL	354298.1	3792668	1.57E-06	6.5YrCancerDerived_Inh
240	ALL	354323.1	3792668	1.53E-06	6.5YrCancerDerived_Inh
241	ALL	354348.1	3792668	1.48E-06	6.5YrCancerDerived_Inh
242	ALL	354373.1	3792668	1.40E-06	6.5YrCancerDerived_Inh
243	ALL	354398.1	3792668	1.35E-06	6.5YrCancerDerived_Inh
244	ALL	354423.1	3792668	1.31E-06	6.5YrCancerDerived_Inh
245	ALL	354448.1	3792668	1.27E-06	6.5YrCancerDerived_Inh
246	ALL	354473.1	3792668	1.22E-06	6.5YrCancerDerived_Inh
247	ALL	354498.1	3792668	1.18E-06	6.5YrCancerDerived_Inh
248	ALL	354523.1	3792668	1.14E-06	6.5YrCancerDerived_Inh
249	ALL	353773.1	3792693	1.18E-05	6.5YrCancerDerived_Inh
250	ALL	353798.1	3792693	7.32E-06	6.5YrCancerDerived_Inh
251	ALL	353823.1	3792693	5.34E-06	6.5YrCancerDerived_Inh
252	ALL	353848.1	3792693	4.32E-06	6.5YrCancerDerived_Inh
253	ALL	353873.1	3792693	3.70E-06	6.5YrCancerDerived_Inh
254	ALL	353898.1	3792693	3.29E-06	6.5YrCancerDerived_Inh
255	ALL	353923.1	3792693	2.99E-06	6.5YrCancerDerived_Inh
256	ALL	353948.1	3792693	2.78E-06	6.5YrCancerDerived_Inh
257	ALL	353973.1	3792693	2.62E-06	6.5YrCancerDerived_Inh
258	ALL	353998.1	3792693	2.48E-06	6.5YrCancerDerived_Inh
259	ALL	354023.1	3792693	2.37E-06	6.5YrCancerDerived_Inh
260	ALL	354048.1	3792693	2.27E-06	6.5YrCancerDerived_Inh
261	ALL	354073.1	3792693	2.18E-06	6.5YrCancerDerived_Inh
262	ALL	354098.1	3792693	2.12E-06	6.5YrCancerDerived_Inh
263	ALL	354123.1	3792693	2.05E-06	6.5YrCancerDerived_Inh
264	ALL	354148.1	3792693	1.98E-06	6.5YrCancerDerived_Inh
265	ALL	354173.1	3792693	1.93E-06	6.5YrCancerDerived_Inh
266	ALL	354198.1	3792693	1.87E-06	6.5YrCancerDerived_Inh
267	ALL	354223.1	3792693	1.82E-06	6.5YrCancerDerived_Inh
268	ALL	354248.1	3792693	1.78E-06	6.5YrCancerDerived_Inh
269	ALL	354273.1	3792693	1.74E-06	6.5YrCancerDerived_Inh
270	ALL	354298.1	3792693	1.66E-06	6.5YrCancerDerived_Inh
271	ALL	354323.1	3792693	1.62E-06	6.5YrCancerDerived_Inh
272	ALL	354348.1	3792693	1.55E-06	6.5YrCancerDerived_Inh
273	ALL	354373.1	3792693	1.46E-06	6.5YrCancerDerived_Inh
274	ALL	354398.1	3792693	1.40E-06	6.5YrCancerDerived_Inh
275	ALL	354423.1	3792693	1.36E-06	6.5YrCancerDerived_Inh
276	ALL	354448.1	3792693	1.31E-06	6.5YrCancerDerived_Inh
277	ALL	354473.1	3792693	1.26E-06	6.5YrCancerDerived_Inh
278	ALL	354498.1	3792693	1.21E-06	6.5YrCancerDerived_Inh
279	ALL	354523.1	3792693	1.18E-06	6.5YrCancerDerived_Inh
280	ALL	353773.1	3792718	1.24E-05	6.5YrCancerDerived_Inh

281	ALL	353798.1	3792718	7.75E-06	6.5YrCancerDerived_Inh
282	ALL	353823.1	3792718	5.66E-06	6.5YrCancerDerived_Inh
283	ALL	353848.1	3792718	4.57E-06	6.5YrCancerDerived_Inh
284	ALL	353873.1	3792718	3.90E-06	6.5YrCancerDerived_Inh
285	ALL	353898.1	3792718	3.46E-06	6.5YrCancerDerived_Inh
286	ALL	353923.1	3792718	3.15E-06	6.5YrCancerDerived_Inh
287	ALL	353948.1	3792718	2.92E-06	6.5YrCancerDerived_Inh
288	ALL	353973.1	3792718	2.74E-06	6.5YrCancerDerived_Inh
289	ALL	353998.1	3792718	2.60E-06	6.5YrCancerDerived_Inh
290	ALL	354023.1	3792718	2.48E-06	6.5YrCancerDerived_Inh
291	ALL	354048.1	3792718	2.37E-06	6.5YrCancerDerived_Inh
292	ALL	354073.1	3792718	2.29E-06	6.5YrCancerDerived_Inh
293	ALL	354098.1	3792718	2.22E-06	6.5YrCancerDerived_Inh
294	ALL	354123.1	3792718	2.15E-06	6.5YrCancerDerived_Inh
295	ALL	354148.1	3792718	2.07E-06	6.5YrCancerDerived_Inh
296	ALL	354173.1	3792718	2.00E-06	6.5YrCancerDerived_Inh
297	ALL	354198.1	3792718	1.95E-06	6.5YrCancerDerived_Inh
298	ALL	354223.1	3792718	1.90E-06	6.5YrCancerDerived_Inh
299	ALL	354248.1	3792718	1.88E-06	6.5YrCancerDerived_Inh
300	ALL	354273.1	3792718	1.82E-06	6.5YrCancerDerived_Inh
301	ALL	354298.1	3792718	1.75E-06	6.5YrCancerDerived_Inh
302	ALL	354323.1	3792718	1.69E-06	6.5YrCancerDerived_Inh
303	ALL	354348.1	3792718	1.61E-06	6.5YrCancerDerived_Inh
304	ALL	354373.1	3792718	1.53E-06	6.5YrCancerDerived_Inh
305	ALL	354398.1	3792718	1.45E-06	6.5YrCancerDerived_Inh
306	ALL	354423.1	3792718	1.40E-06	6.5YrCancerDerived_Inh
307	ALL	354448.1	3792718	1.35E-06	6.5YrCancerDerived_Inh
308	ALL	354473.1	3792718	1.30E-06	6.5YrCancerDerived_Inh
309	ALL	354498.1	3792718	1.25E-06	6.5YrCancerDerived_Inh
310	ALL	354523.1	3792718	1.22E-06	6.5YrCancerDerived_Inh
311	ALL	353773.1	3792743	1.28E-05	6.5YrCancerDerived_Inh
312	ALL	353798.1	3792743	8.08E-06	6.5YrCancerDerived_Inh
313	ALL	353823.1	3792743	5.93E-06	6.5YrCancerDerived_Inh
314	ALL	353848.1	3792743	4.79E-06	6.5YrCancerDerived_Inh
315	ALL	353873.1	3792743	4.09E-06	6.5YrCancerDerived_Inh
316	ALL	353898.1	3792743	3.63E-06	6.5YrCancerDerived_Inh
317	ALL	353923.1	3792743	3.30E-06	6.5YrCancerDerived_Inh
318	ALL	353948.1	3792743	3.06E-06	6.5YrCancerDerived_Inh
319	ALL	353973.1	3792743	2.87E-06	6.5YrCancerDerived_Inh
320	ALL	353998.1	3792743	2.72E-06	6.5YrCancerDerived_Inh
321	ALL	354023.1	3792743	2.59E-06	6.5YrCancerDerived_Inh
322	ALL	354048.1	3792743	2.48E-06	6.5YrCancerDerived_Inh
323	ALL	354073.1	3792743	2.39E-06	6.5YrCancerDerived_Inh
324	ALL	354098.1	3792743	2.31E-06	6.5YrCancerDerived_Inh
325	ALL	354123.1	3792743	2.25E-06	6.5YrCancerDerived_Inh
326	ALL	354148.1	3792743	2.16E-06	6.5YrCancerDerived_Inh
327	ALL	354173.1	3792743	2.09E-06	6.5YrCancerDerived_Inh

328	ALL	354198.1	3792743	2.02E-06	6.5YrCancerDerived_Inh
329	ALL	354223.1	3792743	1.97E-06	6.5YrCancerDerived_Inh
330	ALL	354248.1	3792743	1.93E-06	6.5YrCancerDerived_Inh
331	ALL	354273.1	3792743	1.88E-06	6.5YrCancerDerived_Inh
332	ALL	354298.1	3792743	1.81E-06	6.5YrCancerDerived_Inh
333	ALL	354323.1	3792743	1.75E-06	6.5YrCancerDerived_Inh
334	ALL	354348.1	3792743	1.65E-06	6.5YrCancerDerived_Inh
335	ALL	354373.1	3792743	1.56E-06	6.5YrCancerDerived_Inh
336	ALL	354398.1	3792743	1.50E-06	6.5YrCancerDerived_Inh
337	ALL	354423.1	3792743	1.45E-06	6.5YrCancerDerived_Inh
338	ALL	354448.1	3792743	1.39E-06	6.5YrCancerDerived_Inh
339	ALL	354473.1	3792743	1.34E-06	6.5YrCancerDerived_Inh
340	ALL	354498.1	3792743	1.29E-06	6.5YrCancerDerived_Inh
341	ALL	354523.1	3792743	1.26E-06	6.5YrCancerDerived_Inh
342	ALL	353773.1	3792768	1.32E-05	6.5YrCancerDerived_Inh
343	ALL	353798.1	3792768	8.37E-06	6.5YrCancerDerived_Inh
344	ALL	353823.1	3792768	6.19E-06	6.5YrCancerDerived_Inh
345	ALL	353848.1	3792768	5.02E-06	6.5YrCancerDerived_Inh
346	ALL	353873.1	3792768	4.30E-06	6.5YrCancerDerived_Inh
347	ALL	353898.1	3792768	3.82E-06	6.5YrCancerDerived_Inh
348	ALL	353923.1	3792768	3.48E-06	6.5YrCancerDerived_Inh
349	ALL	353948.1	3792768	3.23E-06	6.5YrCancerDerived_Inh
350	ALL	353973.1	3792768	3.03E-06	6.5YrCancerDerived_Inh
351	ALL	353998.1	3792768	2.87E-06	6.5YrCancerDerived_Inh
352	ALL	354023.1	3792768	2.73E-06	6.5YrCancerDerived_Inh
353	ALL	354048.1	3792768	2.61E-06	6.5YrCancerDerived_Inh
354	ALL	354073.1	3792768	2.50E-06	6.5YrCancerDerived_Inh
355	ALL	354098.1	3792768	2.42E-06	6.5YrCancerDerived_Inh
356	ALL	354123.1	3792768	2.35E-06	6.5YrCancerDerived_Inh
357	ALL	354148.1	3792768	2.26E-06	6.5YrCancerDerived_Inh
358	ALL	354173.1	3792768	2.18E-06	6.5YrCancerDerived_Inh
359	ALL	354198.1	3792768	2.11E-06	6.5YrCancerDerived_Inh
360	ALL	354223.1	3792768	2.04E-06	6.5YrCancerDerived_Inh
361	ALL	354248.1	3792768	1.97E-06	6.5YrCancerDerived_Inh
362	ALL	354273.1	3792768	1.91E-06	6.5YrCancerDerived_Inh
363	ALL	354298.1	3792768	1.84E-06	6.5YrCancerDerived_Inh
364	ALL	354323.1	3792768	1.78E-06	6.5YrCancerDerived_Inh
365	ALL	354348.1	3792768	1.70E-06	6.5YrCancerDerived_Inh
366	ALL	354373.1	3792768	1.61E-06	6.5YrCancerDerived_Inh
367	ALL	354398.1	3792768	1.55E-06	6.5YrCancerDerived_Inh
368	ALL	354423.1	3792768	1.50E-06	6.5YrCancerDerived_Inh
369	ALL	354448.1	3792768	1.44E-06	6.5YrCancerDerived_Inh
370	ALL	354473.1	3792768	1.39E-06	6.5YrCancerDerived_Inh
371	ALL	354498.1	3792768	1.33E-06	6.5YrCancerDerived_Inh
372	ALL	354523.1	3792768	1.30E-06	6.5YrCancerDerived_Inh
373	ALL	353773.1	3792793	1.35E-05	6.5YrCancerDerived_Inh
374	ALL	353798.1	3792793	8.63E-06	6.5YrCancerDerived_Inh

375	ALL	353823.1	3792793	6.42E-06	6.5YrCancerDerived_Inh
376	ALL	353848.1	3792793	5.21E-06	6.5YrCancerDerived_Inh
377	ALL	353873.1	3792793	4.46E-06	6.5YrCancerDerived_Inh
378	ALL	353898.1	3792793	3.95E-06	6.5YrCancerDerived_Inh
379	ALL	353923.1	3792793	3.61E-06	6.5YrCancerDerived_Inh
380	ALL	353948.1	3792793	3.35E-06	6.5YrCancerDerived_Inh
381	ALL	353973.1	3792793	3.15E-06	6.5YrCancerDerived_Inh
382	ALL	353998.1	3792793	3.00E-06	6.5YrCancerDerived_Inh
383	ALL	354023.1	3792793	2.86E-06	6.5YrCancerDerived_Inh
384	ALL	354048.1	3792793	2.74E-06	6.5YrCancerDerived_Inh
385	ALL	354073.1	3792793	2.62E-06	6.5YrCancerDerived_Inh
386	ALL	354098.1	3792793	2.53E-06	6.5YrCancerDerived_Inh
387	ALL	354123.1	3792793	2.45E-06	6.5YrCancerDerived_Inh
388	ALL	354148.1	3792793	2.35E-06	6.5YrCancerDerived_Inh
389	ALL	354173.1	3792793	2.28E-06	6.5YrCancerDerived_Inh
390	ALL	354198.1	3792793	2.19E-06	6.5YrCancerDerived_Inh
391	ALL	354223.1	3792793	2.11E-06	6.5YrCancerDerived_Inh
392	ALL	354248.1	3792793	2.03E-06	6.5YrCancerDerived_Inh
393	ALL	354273.1	3792793	1.96E-06	6.5YrCancerDerived_Inh
394	ALL	354298.1	3792793	1.88E-06	6.5YrCancerDerived_Inh
395	ALL	354323.1	3792793	1.81E-06	6.5YrCancerDerived_Inh
396	ALL	354348.1	3792793	1.74E-06	6.5YrCancerDerived_Inh
397	ALL	354373.1	3792793	1.67E-06	6.5YrCancerDerived_Inh
398	ALL	354398.1	3792793	1.60E-06	6.5YrCancerDerived_Inh
399	ALL	354423.1	3792793	1.55E-06	6.5YrCancerDerived_Inh
400	ALL	354448.1	3792793	1.49E-06	6.5YrCancerDerived_Inh
401	ALL	354473.1	3792793	1.43E-06	6.5YrCancerDerived_Inh
402	ALL	354498.1	3792793	1.38E-06	6.5YrCancerDerived_Inh
403	ALL	354523.1	3792793	1.34E-06	6.5YrCancerDerived_Inh
404	ALL	353773.1	3792818	1.37E-05	6.5YrCancerDerived_Inh
405	ALL	353798.1	3792818	8.85E-06	6.5YrCancerDerived_Inh
406	ALL	353823.1	3792818	6.60E-06	6.5YrCancerDerived_Inh
407	ALL	353848.1	3792818	5.40E-06	6.5YrCancerDerived_Inh
408	ALL	353873.1	3792818	4.65E-06	6.5YrCancerDerived_Inh
409	ALL	353898.1	3792818	4.14E-06	6.5YrCancerDerived_Inh
410	ALL	353923.1	3792818	3.77E-06	6.5YrCancerDerived_Inh
411	ALL	353948.1	3792818	3.50E-06	6.5YrCancerDerived_Inh
412	ALL	353973.1	3792818	3.28E-06	6.5YrCancerDerived_Inh
413	ALL	353998.1	3792818	3.12E-06	6.5YrCancerDerived_Inh
414	ALL	354023.1	3792818	2.98E-06	6.5YrCancerDerived_Inh
415	ALL	354048.1	3792818	2.86E-06	6.5YrCancerDerived_Inh
416	ALL	354073.1	3792818	2.75E-06	6.5YrCancerDerived_Inh
417	ALL	354098.1	3792818	2.64E-06	6.5YrCancerDerived_Inh
418	ALL	354123.1	3792818	2.55E-06	6.5YrCancerDerived_Inh
419	ALL	354148.1	3792818	2.45E-06	6.5YrCancerDerived_Inh
420	ALL	354173.1	3792818	2.36E-06	6.5YrCancerDerived_Inh
421	ALL	354198.1	3792818	2.27E-06	6.5YrCancerDerived_Inh

422	ALL	354223.1	3792818	2.18E-06	6.5YrCancerDerived_Inh
423	ALL	354248.1	3792818	2.10E-06	6.5YrCancerDerived_Inh
424	ALL	354273.1	3792818	2.02E-06	6.5YrCancerDerived_Inh
425	ALL	354298.1	3792818	1.95E-06	6.5YrCancerDerived_Inh
426	ALL	354323.1	3792818	1.87E-06	6.5YrCancerDerived_Inh
427	ALL	354348.1	3792818	1.80E-06	6.5YrCancerDerived_Inh
428	ALL	354373.1	3792818	1.73E-06	6.5YrCancerDerived_Inh
429	ALL	354398.1	3792818	1.66E-06	6.5YrCancerDerived_Inh
430	ALL	354423.1	3792818	1.60E-06	6.5YrCancerDerived_Inh
431	ALL	354448.1	3792818	1.54E-06	6.5YrCancerDerived_Inh
432	ALL	354473.1	3792818	1.48E-06	6.5YrCancerDerived_Inh
433	ALL	354498.1	3792818	1.42E-06	6.5YrCancerDerived_Inh
434	ALL	354523.1	3792818	1.38E-06	6.5YrCancerDerived_Inh
435	ALL	353773.1	3792843	1.40E-05	6.5YrCancerDerived_Inh
436	ALL	353798.1	3792843	9.03E-06	6.5YrCancerDerived_Inh
437	ALL	353823.1	3792843	6.77E-06	6.5YrCancerDerived_Inh
438	ALL	353848.1	3792843	5.55E-06	6.5YrCancerDerived_Inh
439	ALL	353873.1	3792843	4.79E-06	6.5YrCancerDerived_Inh
440	ALL	353898.1	3792843	4.28E-06	6.5YrCancerDerived_Inh
441	ALL	353923.1	3792843	3.91E-06	6.5YrCancerDerived_Inh
442	ALL	353948.1	3792843	3.63E-06	6.5YrCancerDerived_Inh
443	ALL	353973.1	3792843	3.42E-06	6.5YrCancerDerived_Inh
444	ALL	353998.1	3792843	3.25E-06	6.5YrCancerDerived_Inh
445	ALL	354023.1	3792843	3.11E-06	6.5YrCancerDerived_Inh
446	ALL	354048.1	3792843	2.98E-06	6.5YrCancerDerived_Inh
447	ALL	354073.1	3792843	2.87E-06	6.5YrCancerDerived_Inh
448	ALL	354098.1	3792843	2.76E-06	6.5YrCancerDerived_Inh
449	ALL	354123.1	3792843	2.67E-06	6.5YrCancerDerived_Inh
450	ALL	354148.1	3792843	2.56E-06	6.5YrCancerDerived_Inh
451	ALL	354173.1	3792843	2.46E-06	6.5YrCancerDerived_Inh
452	ALL	354198.1	3792843	2.37E-06	6.5YrCancerDerived_Inh
453	ALL	354223.1	3792843	2.27E-06	6.5YrCancerDerived_Inh
454	ALL	354248.1	3792843	2.19E-06	6.5YrCancerDerived_Inh
455	ALL	354273.1	3792843	2.10E-06	6.5YrCancerDerived_Inh
456	ALL	354298.1	3792843	2.02E-06	6.5YrCancerDerived_Inh
457	ALL	354323.1	3792843	1.94E-06	6.5YrCancerDerived_Inh
458	ALL	354348.1	3792843	1.87E-06	6.5YrCancerDerived_Inh
459	ALL	354373.1	3792843	1.79E-06	6.5YrCancerDerived_Inh
460	ALL	354398.1	3792843	1.71E-06	6.5YrCancerDerived_Inh
461	ALL	354423.1	3792843	1.66E-06	6.5YrCancerDerived_Inh
462	ALL	354448.1	3792843	1.59E-06	6.5YrCancerDerived_Inh
463	ALL	354473.1	3792843	1.53E-06	6.5YrCancerDerived_Inh
464	ALL	354498.1	3792843	1.47E-06	6.5YrCancerDerived_Inh
465	ALL	354523.1	3792843	1.42E-06	6.5YrCancerDerived_Inh
466	ALL	353773.1	3792868	1.42E-05	6.5YrCancerDerived_Inh
467	ALL	353798.1	3792868	9.20E-06	6.5YrCancerDerived_Inh
468	ALL	353823.1	3792868	6.93E-06	6.5YrCancerDerived_Inh

469	ALL	353848.1	3792868	5.66E-06	6.5YrCancerDerived_Inh
470	ALL	353873.1	3792868	4.89E-06	6.5YrCancerDerived_Inh
471	ALL	353898.1	3792868	4.39E-06	6.5YrCancerDerived_Inh
472	ALL	353923.1	3792868	4.04E-06	6.5YrCancerDerived_Inh
473	ALL	353948.1	3792868	3.77E-06	6.5YrCancerDerived_Inh
474	ALL	353973.1	3792868	3.57E-06	6.5YrCancerDerived_Inh
475	ALL	353998.1	3792868	3.40E-06	6.5YrCancerDerived_Inh
476	ALL	354023.1	3792868	3.26E-06	6.5YrCancerDerived_Inh
477	ALL	354048.1	3792868	3.13E-06	6.5YrCancerDerived_Inh
478	ALL	354073.1	3792868	3.02E-06	6.5YrCancerDerived_Inh
479	ALL	354098.1	3792868	2.90E-06	6.5YrCancerDerived_Inh
480	ALL	354123.1	3792868	2.79E-06	6.5YrCancerDerived_Inh
481	ALL	354148.1	3792868	2.68E-06	6.5YrCancerDerived_Inh
482	ALL	354173.1	3792868	2.60E-06	6.5YrCancerDerived_Inh
483	ALL	354198.1	3792868	2.49E-06	6.5YrCancerDerived_Inh
484	ALL	354223.1	3792868	2.39E-06	6.5YrCancerDerived_Inh
485	ALL	354248.1	3792868	2.30E-06	6.5YrCancerDerived_Inh
486	ALL	354273.1	3792868	2.21E-06	6.5YrCancerDerived_Inh
487	ALL	354298.1	3792868	2.12E-06	6.5YrCancerDerived_Inh
488	ALL	354323.1	3792868	2.04E-06	6.5YrCancerDerived_Inh
489	ALL	354348.1	3792868	1.96E-06	6.5YrCancerDerived_Inh
490	ALL	354373.1	3792868	1.86E-06	6.5YrCancerDerived_Inh
491	ALL	354398.1	3792868	1.78E-06	6.5YrCancerDerived_Inh
492	ALL	354423.1	3792868	1.71E-06	6.5YrCancerDerived_Inh
493	ALL	354448.1	3792868	1.64E-06	6.5YrCancerDerived_Inh
494	ALL	354473.1	3792868	1.58E-06	6.5YrCancerDerived_Inh
495	ALL	354498.1	3792868	1.52E-06	6.5YrCancerDerived_Inh
496	ALL	354523.1	3792868	1.47E-06	6.5YrCancerDerived_Inh
497	ALL	353773.1	3792893	1.45E-05	6.5YrCancerDerived_Inh
498	ALL	353798.1	3792893	9.37E-06	6.5YrCancerDerived_Inh
499	ALL	353823.1	3792893	7.09E-06	6.5YrCancerDerived_Inh
500	ALL	353848.1	3792893	5.82E-06	6.5YrCancerDerived_Inh
501	ALL	353873.1	3792893	5.04E-06	6.5YrCancerDerived_Inh
502	ALL	353898.1	3792893	4.54E-06	6.5YrCancerDerived_Inh
503	ALL	353923.1	3792893	4.19E-06	6.5YrCancerDerived_Inh
504	ALL	353948.1	3792893	3.93E-06	6.5YrCancerDerived_Inh
505	ALL	353973.1	3792893	3.72E-06	6.5YrCancerDerived_Inh
506	ALL	353998.1	3792893	3.55E-06	6.5YrCancerDerived_Inh
507	ALL	354023.1	3792893	3.41E-06	6.5YrCancerDerived_Inh
508	ALL	354048.1	3792893	3.28E-06	6.5YrCancerDerived_Inh
509	ALL	354073.1	3792893	3.16E-06	6.5YrCancerDerived_Inh
510	ALL	354098.1	3792893	3.04E-06	6.5YrCancerDerived_Inh
511	ALL	354123.1	3792893	2.92E-06	6.5YrCancerDerived_Inh
512	ALL	354148.1	3792893	2.80E-06	6.5YrCancerDerived_Inh
513	ALL	354173.1	3792893	2.71E-06	6.5YrCancerDerived_Inh
514	ALL	354198.1	3792893	2.61E-06	6.5YrCancerDerived_Inh
515	ALL	354223.1	3792893	2.50E-06	6.5YrCancerDerived_Inh

516	ALL	354248.1	3792893	2.40E-06	6.5YrCancerDerived_Inh
517	ALL	354273.1	3792893	2.30E-06	6.5YrCancerDerived_Inh
518	ALL	354298.1	3792893	2.21E-06	6.5YrCancerDerived_Inh
519	ALL	354323.1	3792893	2.12E-06	6.5YrCancerDerived_Inh
520	ALL	354348.1	3792893	2.03E-06	6.5YrCancerDerived_Inh
521	ALL	354373.1	3792893	1.93E-06	6.5YrCancerDerived_Inh
522	ALL	354398.1	3792893	1.84E-06	6.5YrCancerDerived_Inh
523	ALL	354423.1	3792893	1.78E-06	6.5YrCancerDerived_Inh
524	ALL	354448.1	3792893	1.70E-06	6.5YrCancerDerived_Inh
525	ALL	354473.1	3792893	1.64E-06	6.5YrCancerDerived_Inh
526	ALL	354498.1	3792893	1.57E-06	6.5YrCancerDerived_Inh
527	ALL	354523.1	3792893	1.52E-06	6.5YrCancerDerived_Inh
528	ALL	353773.1	3792918	1.48E-05	6.5YrCancerDerived_Inh
529	ALL	353798.1	3792918	9.60E-06	6.5YrCancerDerived_Inh
530	ALL	353823.1	3792918	7.27E-06	6.5YrCancerDerived_Inh
531	ALL	353848.1	3792918	6.02E-06	6.5YrCancerDerived_Inh
532	ALL	353873.1	3792918	5.24E-06	6.5YrCancerDerived_Inh
533	ALL	353898.1	3792918	4.72E-06	6.5YrCancerDerived_Inh
534	ALL	353923.1	3792918	4.36E-06	6.5YrCancerDerived_Inh
535	ALL	353948.1	3792918	4.10E-06	6.5YrCancerDerived_Inh
536	ALL	353973.1	3792918	3.89E-06	6.5YrCancerDerived_Inh
537	ALL	353998.1	3792918	3.72E-06	6.5YrCancerDerived_Inh
538	ALL	354023.1	3792918	3.57E-06	6.5YrCancerDerived_Inh
539	ALL	354048.1	3792918	3.43E-06	6.5YrCancerDerived_Inh
540	ALL	354073.1	3792918	3.31E-06	6.5YrCancerDerived_Inh
541	ALL	354098.1	3792918	3.19E-06	6.5YrCancerDerived_Inh
542	ALL	354123.1	3792918	3.07E-06	6.5YrCancerDerived_Inh
543	ALL	354148.1	3792918	2.93E-06	6.5YrCancerDerived_Inh
544	ALL	354173.1	3792918	2.83E-06	6.5YrCancerDerived_Inh
545	ALL	354198.1	3792918	2.71E-06	6.5YrCancerDerived_Inh
546	ALL	354223.1	3792918	2.60E-06	6.5YrCancerDerived_Inh
547	ALL	354248.1	3792918	2.49E-06	6.5YrCancerDerived_Inh
548	ALL	354273.1	3792918	2.39E-06	6.5YrCancerDerived_Inh
549	ALL	354298.1	3792918	2.29E-06	6.5YrCancerDerived_Inh
550	ALL	354323.1	3792918	2.19E-06	6.5YrCancerDerived_Inh
551	ALL	354348.1	3792918	2.11E-06	6.5YrCancerDerived_Inh
552	ALL	354373.1	3792918	2.00E-06	6.5YrCancerDerived_Inh
553	ALL	354398.1	3792918	1.92E-06	6.5YrCancerDerived_Inh
554	ALL	354423.1	3792918	1.85E-06	6.5YrCancerDerived_Inh
555	ALL	354448.1	3792918	1.77E-06	6.5YrCancerDerived_Inh
556	ALL	354473.1	3792918	1.70E-06	6.5YrCancerDerived_Inh
557	ALL	354498.1	3792918	1.63E-06	6.5YrCancerDerived_Inh
558	ALL	354523.1	3792918	1.57E-06	6.5YrCancerDerived_Inh
559	ALL	353773.1	3792943	1.52E-05	6.5YrCancerDerived_Inh
560	ALL	353798.1	3792943	9.89E-06	6.5YrCancerDerived_Inh
561	ALL	353823.1	3792943	7.49E-06	6.5YrCancerDerived_Inh
562	ALL	353848.1	3792943	6.22E-06	6.5YrCancerDerived_Inh

563	ALL	353873.1	3792943	5.44E-06	6.5YrCancerDerived_Inh
564	ALL	353898.1	3792943	4.92E-06	6.5YrCancerDerived_Inh
565	ALL	353923.1	3792943	4.56E-06	6.5YrCancerDerived_Inh
566	ALL	353948.1	3792943	4.29E-06	6.5YrCancerDerived_Inh
567	ALL	353973.1	3792943	4.07E-06	6.5YrCancerDerived_Inh
568	ALL	353998.1	3792943	3.90E-06	6.5YrCancerDerived_Inh
569	ALL	354023.1	3792943	3.74E-06	6.5YrCancerDerived_Inh
570	ALL	354048.1	3792943	3.60E-06	6.5YrCancerDerived_Inh
571	ALL	354073.1	3792943	3.47E-06	6.5YrCancerDerived_Inh
572	ALL	354098.1	3792943	3.34E-06	6.5YrCancerDerived_Inh
573	ALL	354123.1	3792943	3.24E-06	6.5YrCancerDerived_Inh
574	ALL	354148.1	3792943	3.08E-06	6.5YrCancerDerived_Inh
575	ALL	354173.1	3792943	2.96E-06	6.5YrCancerDerived_Inh
576	ALL	354198.1	3792943	2.83E-06	6.5YrCancerDerived_Inh
577	ALL	354223.1	3792943	2.71E-06	6.5YrCancerDerived_Inh
578	ALL	354248.1	3792943	2.59E-06	6.5YrCancerDerived_Inh
579	ALL	354273.1	3792943	2.48E-06	6.5YrCancerDerived_Inh
580	ALL	354298.1	3792943	2.38E-06	6.5YrCancerDerived_Inh
581	ALL	354323.1	3792943	2.27E-06	6.5YrCancerDerived_Inh
582	ALL	354348.1	3792943	2.18E-06	6.5YrCancerDerived_Inh
583	ALL	354373.1	3792943	2.09E-06	6.5YrCancerDerived_Inh
584	ALL	354398.1	3792943	1.99E-06	6.5YrCancerDerived_Inh
585	ALL	354423.1	3792943	1.92E-06	6.5YrCancerDerived_Inh
586	ALL	354448.1	3792943	1.84E-06	6.5YrCancerDerived_Inh
587	ALL	354473.1	3792943	1.76E-06	6.5YrCancerDerived_Inh
588	ALL	354498.1	3792943	1.69E-06	6.5YrCancerDerived_Inh
589	ALL	354523.1	3792943	1.62E-06	6.5YrCancerDerived_Inh
590	ALL	353773.1	3792968	1.55E-05	6.5YrCancerDerived_Inh
591	ALL	353798.1	3792968	1.01E-05	6.5YrCancerDerived_Inh
592	ALL	353823.1	3792968	7.70E-06	6.5YrCancerDerived_Inh
593	ALL	353848.1	3792968	6.42E-06	6.5YrCancerDerived_Inh
594	ALL	353873.1	3792968	5.63E-06	6.5YrCancerDerived_Inh
595	ALL	353898.1	3792968	5.12E-06	6.5YrCancerDerived_Inh
596	ALL	353923.1	3792968	4.76E-06	6.5YrCancerDerived_Inh
597	ALL	353948.1	3792968	4.49E-06	6.5YrCancerDerived_Inh
598	ALL	353973.1	3792968	4.28E-06	6.5YrCancerDerived_Inh
599	ALL	353998.1	3792968	4.10E-06	6.5YrCancerDerived_Inh
600	ALL	354023.1	3792968	3.94E-06	6.5YrCancerDerived_Inh
601	ALL	354048.1	3792968	3.79E-06	6.5YrCancerDerived_Inh
602	ALL	354073.1	3792968	3.65E-06	6.5YrCancerDerived_Inh
603	ALL	354098.1	3792968	3.52E-06	6.5YrCancerDerived_Inh
604	ALL	354123.1	3792968	3.42E-06	6.5YrCancerDerived_Inh
605	ALL	354148.1	3792968	3.25E-06	6.5YrCancerDerived_Inh
606	ALL	354173.1	3792968	3.11E-06	6.5YrCancerDerived_Inh
607	ALL	354198.1	3792968	2.97E-06	6.5YrCancerDerived_Inh
608	ALL	354223.1	3792968	2.84E-06	6.5YrCancerDerived_Inh
609	ALL	354248.1	3792968	2.72E-06	6.5YrCancerDerived_Inh

610	ALL	354273.1	3792968	2.59E-06	6.5YrCancerDerived_Inh
611	ALL	354298.1	3792968	2.48E-06	6.5YrCancerDerived_Inh
612	ALL	354323.1	3792968	2.37E-06	6.5YrCancerDerived_Inh
613	ALL	354348.1	3792968	2.27E-06	6.5YrCancerDerived_Inh
614	ALL	354373.1	3792968	2.18E-06	6.5YrCancerDerived_Inh
615	ALL	354398.1	3792968	2.08E-06	6.5YrCancerDerived_Inh
616	ALL	354423.1	3792968	2.00E-06	6.5YrCancerDerived_Inh
617	ALL	354448.1	3792968	1.91E-06	6.5YrCancerDerived_Inh
618	ALL	354473.1	3792968	1.83E-06	6.5YrCancerDerived_Inh
619	ALL	354498.1	3792968	1.75E-06	6.5YrCancerDerived_Inh
620	ALL	354523.1	3792968	1.68E-06	6.5YrCancerDerived_Inh
621	ALL	353773.1	3792993	1.58E-05	6.5YrCancerDerived_Inh
622	ALL	353798.1	3792993	1.04E-05	6.5YrCancerDerived_Inh
623	ALL	353823.1	3792993	7.92E-06	6.5YrCancerDerived_Inh
624	ALL	353848.1	3792993	6.60E-06	6.5YrCancerDerived_Inh
625	ALL	353873.1	3792993	5.81E-06	6.5YrCancerDerived_Inh
626	ALL	353898.1	3792993	5.31E-06	6.5YrCancerDerived_Inh
627	ALL	353923.1	3792993	4.96E-06	6.5YrCancerDerived_Inh
628	ALL	353948.1	3792993	4.70E-06	6.5YrCancerDerived_Inh
629	ALL	353973.1	3792993	4.50E-06	6.5YrCancerDerived_Inh
630	ALL	353998.1	3792993	4.33E-06	6.5YrCancerDerived_Inh
631	ALL	354023.1	3792993	4.18E-06	6.5YrCancerDerived_Inh
632	ALL	354048.1	3792993	4.04E-06	6.5YrCancerDerived_Inh
633	ALL	354073.1	3792993	3.91E-06	6.5YrCancerDerived_Inh
634	ALL	354098.1	3792993	3.76E-06	6.5YrCancerDerived_Inh
635	ALL	354123.1	3792993	3.61E-06	6.5YrCancerDerived_Inh
636	ALL	354148.1	3792993	3.44E-06	6.5YrCancerDerived_Inh
637	ALL	354173.1	3792993	3.32E-06	6.5YrCancerDerived_Inh
638	ALL	354198.1	3792993	3.17E-06	6.5YrCancerDerived_Inh
639	ALL	354223.1	3792993	3.02E-06	6.5YrCancerDerived_Inh
640	ALL	354248.1	3792993	2.89E-06	6.5YrCancerDerived_Inh
641	ALL	354273.1	3792993	2.75E-06	6.5YrCancerDerived_Inh
642	ALL	354298.1	3792993	2.63E-06	6.5YrCancerDerived_Inh
643	ALL	354323.1	3792993	2.51E-06	6.5YrCancerDerived_Inh
644	ALL	354348.1	3792993	2.40E-06	6.5YrCancerDerived_Inh
645	ALL	354373.1	3792993	2.28E-06	6.5YrCancerDerived_Inh
646	ALL	354398.1	3792993	2.16E-06	6.5YrCancerDerived_Inh
647	ALL	354423.1	3792993	2.08E-06	6.5YrCancerDerived_Inh
648	ALL	354448.1	3792993	1.99E-06	6.5YrCancerDerived_Inh
649	ALL	354473.1	3792993	1.90E-06	6.5YrCancerDerived_Inh
650	ALL	354498.1	3792993	1.82E-06	6.5YrCancerDerived_Inh
651	ALL	354523.1	3792993	1.74E-06	6.5YrCancerDerived_Inh
652	ALL	353773.1	3793018	1.61E-05	6.5YrCancerDerived_Inh
653	ALL	353798.1	3793018	1.06E-05	6.5YrCancerDerived_Inh
654	ALL	353823.1	3793018	8.14E-06	6.5YrCancerDerived_Inh
655	ALL	353848.1	3793018	6.83E-06	6.5YrCancerDerived_Inh
656	ALL	353873.1	3793018	6.05E-06	6.5YrCancerDerived_Inh

657	ALL	353898.1	3793018	5.55E-06	6.5YrCancerDerived_Inh
658	ALL	353923.1	3793018	5.20E-06	6.5YrCancerDerived_Inh
659	ALL	353948.1	3793018	4.95E-06	6.5YrCancerDerived_Inh
660	ALL	353973.1	3793018	4.75E-06	6.5YrCancerDerived_Inh
661	ALL	353998.1	3793018	4.58E-06	6.5YrCancerDerived_Inh
662	ALL	354023.1	3793018	4.43E-06	6.5YrCancerDerived_Inh
663	ALL	354048.1	3793018	4.28E-06	6.5YrCancerDerived_Inh
664	ALL	354073.1	3793018	4.13E-06	6.5YrCancerDerived_Inh
665	ALL	354098.1	3793018	3.98E-06	6.5YrCancerDerived_Inh
666	ALL	354123.1	3793018	3.82E-06	6.5YrCancerDerived_Inh
667	ALL	354148.1	3793018	3.65E-06	6.5YrCancerDerived_Inh
668	ALL	354173.1	3793018	3.49E-06	6.5YrCancerDerived_Inh
669	ALL	354198.1	3793018	3.33E-06	6.5YrCancerDerived_Inh
670	ALL	354223.1	3793018	3.17E-06	6.5YrCancerDerived_Inh
671	ALL	354248.1	3793018	3.02E-06	6.5YrCancerDerived_Inh
672	ALL	354273.1	3793018	2.87E-06	6.5YrCancerDerived_Inh
673	ALL	354298.1	3793018	2.74E-06	6.5YrCancerDerived_Inh
674	ALL	354323.1	3793018	2.61E-06	6.5YrCancerDerived_Inh
675	ALL	354348.1	3793018	2.49E-06	6.5YrCancerDerived_Inh
676	ALL	354373.1	3793018	2.36E-06	6.5YrCancerDerived_Inh
677	ALL	354398.1	3793018	2.25E-06	6.5YrCancerDerived_Inh
678	ALL	354423.1	3793018	2.15E-06	6.5YrCancerDerived_Inh
679	ALL	354448.1	3793018	2.05E-06	6.5YrCancerDerived_Inh
680	ALL	354473.1	3793018	1.96E-06	6.5YrCancerDerived_Inh
681	ALL	354498.1	3793018	1.88E-06	6.5YrCancerDerived_Inh
682	ALL	354523.1	3793018	1.80E-06	6.5YrCancerDerived_Inh
683	ALL	353773.1	3793043	1.64E-05	6.5YrCancerDerived_Inh
684	ALL	353798.1	3793043	1.09E-05	6.5YrCancerDerived_Inh
685	ALL	353823.1	3793043	8.38E-06	6.5YrCancerDerived_Inh
686	ALL	353848.1	3793043	7.09E-06	6.5YrCancerDerived_Inh
687	ALL	353873.1	3793043	6.33E-06	6.5YrCancerDerived_Inh
688	ALL	353898.1	3793043	5.84E-06	6.5YrCancerDerived_Inh
689	ALL	353923.1	3793043	5.49E-06	6.5YrCancerDerived_Inh
690	ALL	353948.1	3793043	5.23E-06	6.5YrCancerDerived_Inh
691	ALL	353973.1	3793043	5.03E-06	6.5YrCancerDerived_Inh
692	ALL	353998.1	3793043	4.86E-06	6.5YrCancerDerived_Inh
693	ALL	354023.1	3793043	4.70E-06	6.5YrCancerDerived_Inh
694	ALL	354048.1	3793043	4.55E-06	6.5YrCancerDerived_Inh
695	ALL	354073.1	3793043	4.39E-06	6.5YrCancerDerived_Inh
696	ALL	354098.1	3793043	4.22E-06	6.5YrCancerDerived_Inh
697	ALL	354123.1	3793043	4.05E-06	6.5YrCancerDerived_Inh
698	ALL	354148.1	3793043	3.87E-06	6.5YrCancerDerived_Inh
699	ALL	354173.1	3793043	3.68E-06	6.5YrCancerDerived_Inh
700	ALL	354198.1	3793043	3.50E-06	6.5YrCancerDerived_Inh
701	ALL	354223.1	3793043	3.33E-06	6.5YrCancerDerived_Inh
702	ALL	354248.1	3793043	3.16E-06	6.5YrCancerDerived_Inh
703	ALL	354273.1	3793043	3.01E-06	6.5YrCancerDerived_Inh

704	ALL	354298.1	3793043	2.86E-06	6.5YrCancerDerived_Inh
705	ALL	354323.1	3793043	2.73E-06	6.5YrCancerDerived_Inh
706	ALL	354348.1	3793043	2.60E-06	6.5YrCancerDerived_Inh
707	ALL	354373.1	3793043	2.47E-06	6.5YrCancerDerived_Inh
708	ALL	354398.1	3793043	2.35E-06	6.5YrCancerDerived_Inh
709	ALL	354423.1	3793043	2.24E-06	6.5YrCancerDerived_Inh
710	ALL	354448.1	3793043	2.14E-06	6.5YrCancerDerived_Inh
711	ALL	354473.1	3793043	2.04E-06	6.5YrCancerDerived_Inh
712	ALL	354498.1	3793043	1.95E-06	6.5YrCancerDerived_Inh
713	ALL	354523.1	3793043	1.87E-06	6.5YrCancerDerived_Inh
714	ALL	354548.1	3793043	1.78E-06	6.5YrCancerDerived_Inh
715	ALL	353773.1	3793068	1.68E-05	6.5YrCancerDerived_Inh
716	ALL	353798.1	3793068	1.11E-05	6.5YrCancerDerived_Inh
717	ALL	353823.1	3793068	8.62E-06	6.5YrCancerDerived_Inh
718	ALL	353848.1	3793068	7.35E-06	6.5YrCancerDerived_Inh
719	ALL	353873.1	3793068	6.61E-06	6.5YrCancerDerived_Inh
720	ALL	353898.1	3793068	6.12E-06	6.5YrCancerDerived_Inh
721	ALL	353923.1	3793068	5.79E-06	6.5YrCancerDerived_Inh
722	ALL	353948.1	3793068	5.54E-06	6.5YrCancerDerived_Inh
723	ALL	353973.1	3793068	5.37E-06	6.5YrCancerDerived_Inh
724	ALL	353998.1	3793068	5.21E-06	6.5YrCancerDerived_Inh
725	ALL	354023.1	3793068	5.04E-06	6.5YrCancerDerived_Inh
726	ALL	354048.1	3793068	4.88E-06	6.5YrCancerDerived_Inh
727	ALL	354073.1	3793068	4.70E-06	6.5YrCancerDerived_Inh
728	ALL	354098.1	3793068	4.52E-06	6.5YrCancerDerived_Inh
729	ALL	354123.1	3793068	4.32E-06	6.5YrCancerDerived_Inh
730	ALL	354148.1	3793068	4.13E-06	6.5YrCancerDerived_Inh
731	ALL	354173.1	3793068	3.93E-06	6.5YrCancerDerived_Inh
732	ALL	354198.1	3793068	3.72E-06	6.5YrCancerDerived_Inh
733	ALL	354223.1	3793068	3.54E-06	6.5YrCancerDerived_Inh
734	ALL	354248.1	3793068	3.36E-06	6.5YrCancerDerived_Inh
735	ALL	354273.1	3793068	3.18E-06	6.5YrCancerDerived_Inh
736	ALL	354298.1	3793068	3.01E-06	6.5YrCancerDerived_Inh
737	ALL	354323.1	3793068	2.87E-06	6.5YrCancerDerived_Inh
738	ALL	354348.1	3793068	2.74E-06	6.5YrCancerDerived_Inh
739	ALL	354373.1	3793068	2.59E-06	6.5YrCancerDerived_Inh
740	ALL	354398.1	3793068	2.45E-06	6.5YrCancerDerived_Inh
741	ALL	354423.1	3793068	2.35E-06	6.5YrCancerDerived_Inh
742	ALL	354448.1	3793068	2.23E-06	6.5YrCancerDerived_Inh
743	ALL	354473.1	3793068	2.12E-06	6.5YrCancerDerived_Inh
744	ALL	354498.1	3793068	2.02E-06	6.5YrCancerDerived_Inh
745	ALL	354523.1	3793068	1.94E-06	6.5YrCancerDerived_Inh
746	ALL	354548.1	3793068	1.85E-06	6.5YrCancerDerived_Inh
747	ALL	353773.1	3793093	1.71E-05	6.5YrCancerDerived_Inh
748	ALL	353798.1	3793093	1.13E-05	6.5YrCancerDerived_Inh
749	ALL	353823.1	3793093	8.90E-06	6.5YrCancerDerived_Inh
750	ALL	353848.1	3793093	7.66E-06	6.5YrCancerDerived_Inh

751	ALL	353873.1	3793093	6.89E-06	6.5YrCancerDerived_Inh
752	ALL	353898.1	3793093	6.39E-06	6.5YrCancerDerived_Inh
753	ALL	353923.1	3793093	6.13E-06	6.5YrCancerDerived_Inh
754	ALL	353948.1	3793093	5.94E-06	6.5YrCancerDerived_Inh
755	ALL	353973.1	3793093	5.79E-06	6.5YrCancerDerived_Inh
756	ALL	353998.1	3793093	5.64E-06	6.5YrCancerDerived_Inh
757	ALL	354023.1	3793093	5.48E-06	6.5YrCancerDerived_Inh
758	ALL	354048.1	3793093	5.29E-06	6.5YrCancerDerived_Inh
759	ALL	354073.1	3793093	5.10E-06	6.5YrCancerDerived_Inh
760	ALL	354098.1	3793093	4.89E-06	6.5YrCancerDerived_Inh
761	ALL	354123.1	3793093	4.66E-06	6.5YrCancerDerived_Inh
762	ALL	354148.1	3793093	4.42E-06	6.5YrCancerDerived_Inh
763	ALL	354173.1	3793093	4.22E-06	6.5YrCancerDerived_Inh
764	ALL	354198.1	3793093	4.00E-06	6.5YrCancerDerived_Inh
765	ALL	354223.1	3793093	3.81E-06	6.5YrCancerDerived_Inh
766	ALL	354248.1	3793093	3.60E-06	6.5YrCancerDerived_Inh
767	ALL	354273.1	3793093	3.39E-06	6.5YrCancerDerived_Inh
768	ALL	354298.1	3793093	3.17E-06	6.5YrCancerDerived_Inh
769	ALL	354323.1	3793093	3.02E-06	6.5YrCancerDerived_Inh
770	ALL	354348.1	3793093	2.87E-06	6.5YrCancerDerived_Inh
771	ALL	354373.1	3793093	2.72E-06	6.5YrCancerDerived_Inh
772	ALL	354398.1	3793093	2.56E-06	6.5YrCancerDerived_Inh
773	ALL	354423.1	3793093	2.45E-06	6.5YrCancerDerived_Inh
774	ALL	354448.1	3793093	2.32E-06	6.5YrCancerDerived_Inh
775	ALL	354473.1	3793093	2.20E-06	6.5YrCancerDerived_Inh
776	ALL	354498.1	3793093	2.10E-06	6.5YrCancerDerived_Inh
777	ALL	354523.1	3793093	2.00E-06	6.5YrCancerDerived_Inh
778	ALL	354548.1	3793093	1.91E-06	6.5YrCancerDerived_Inh
779	ALL	353773.1	3793118	1.56E-05	6.5YrCancerDerived_Inh
780	ALL	353798.1	3793118	1.16E-05	6.5YrCancerDerived_Inh
781	ALL	353823.1	3793118	9.22E-06	6.5YrCancerDerived_Inh
782	ALL	353848.1	3793118	7.99E-06	6.5YrCancerDerived_Inh
783	ALL	353873.1	3793118	7.29E-06	6.5YrCancerDerived_Inh
784	ALL	353898.1	3793118	6.82E-06	6.5YrCancerDerived_Inh
785	ALL	353923.1	3793118	6.54E-06	6.5YrCancerDerived_Inh
786	ALL	353948.1	3793118	6.36E-06	6.5YrCancerDerived_Inh
787	ALL	353973.1	3793118	6.21E-06	6.5YrCancerDerived_Inh
788	ALL	353998.1	3793118	6.06E-06	6.5YrCancerDerived_Inh
789	ALL	354023.1	3793118	5.89E-06	6.5YrCancerDerived_Inh
790	ALL	354048.1	3793118	5.69E-06	6.5YrCancerDerived_Inh
791	ALL	354073.1	3793118	5.48E-06	6.5YrCancerDerived_Inh
792	ALL	354098.1	3793118	5.25E-06	6.5YrCancerDerived_Inh
793	ALL	354123.1	3793118	5.03E-06	6.5YrCancerDerived_Inh
794	ALL	354148.1	3793118	4.74E-06	6.5YrCancerDerived_Inh
795	ALL	354173.1	3793118	4.51E-06	6.5YrCancerDerived_Inh
796	ALL	354198.1	3793118	4.26E-06	6.5YrCancerDerived_Inh
797	ALL	354223.1	3793118	4.03E-06	6.5YrCancerDerived_Inh

798	ALL	354248.1	3793118	3.79E-06	6.5YrCancerDerived_Inh
799	ALL	354273.1	3793118	3.56E-06	6.5YrCancerDerived_Inh
800	ALL	354298.1	3793118	3.35E-06	6.5YrCancerDerived_Inh
801	ALL	354323.1	3793118	3.17E-06	6.5YrCancerDerived_Inh
802	ALL	354348.1	3793118	3.01E-06	6.5YrCancerDerived_Inh
803	ALL	354373.1	3793118	2.85E-06	6.5YrCancerDerived_Inh
804	ALL	354398.1	3793118	2.68E-06	6.5YrCancerDerived_Inh
805	ALL	354423.1	3793118	2.56E-06	6.5YrCancerDerived_Inh
806	ALL	354448.1	3793118	2.42E-06	6.5YrCancerDerived_Inh
807	ALL	354473.1	3793118	2.29E-06	6.5YrCancerDerived_Inh
808	ALL	354498.1	3793118	2.17E-06	6.5YrCancerDerived_Inh
809	ALL	354523.1	3793118	2.07E-06	6.5YrCancerDerived_Inh
810	ALL	354548.1	3793118	1.97E-06	6.5YrCancerDerived_Inh
811	ALL	353773.1	3793143	1.77E-05	6.5YrCancerDerived_Inh
812	ALL	353798.1	3793143	1.19E-05	6.5YrCancerDerived_Inh
813	ALL	353823.1	3793143	9.56E-06	6.5YrCancerDerived_Inh
814	ALL	353848.1	3793143	8.34E-06	6.5YrCancerDerived_Inh
815	ALL	353873.1	3793143	7.70E-06	6.5YrCancerDerived_Inh
816	ALL	353898.1	3793143	7.27E-06	6.5YrCancerDerived_Inh
817	ALL	353923.1	3793143	7.02E-06	6.5YrCancerDerived_Inh
818	ALL	353948.1	3793143	6.88E-06	6.5YrCancerDerived_Inh
819	ALL	353973.1	3793143	6.73E-06	6.5YrCancerDerived_Inh
820	ALL	353998.1	3793143	6.58E-06	6.5YrCancerDerived_Inh
821	ALL	354023.1	3793143	6.41E-06	6.5YrCancerDerived_Inh
822	ALL	354048.1	3793143	6.19E-06	6.5YrCancerDerived_Inh
823	ALL	354073.1	3793143	5.93E-06	6.5YrCancerDerived_Inh
824	ALL	354098.1	3793143	5.68E-06	6.5YrCancerDerived_Inh
825	ALL	354123.1	3793143	5.44E-06	6.5YrCancerDerived_Inh
826	ALL	354148.1	3793143	5.11E-06	6.5YrCancerDerived_Inh
827	ALL	354173.1	3793143	4.84E-06	6.5YrCancerDerived_Inh
828	ALL	354198.1	3793143	4.56E-06	6.5YrCancerDerived_Inh
829	ALL	354223.1	3793143	4.29E-06	6.5YrCancerDerived_Inh
830	ALL	354248.1	3793143	4.03E-06	6.5YrCancerDerived_Inh
831	ALL	354273.1	3793143	3.78E-06	6.5YrCancerDerived_Inh
832	ALL	354298.1	3793143	3.54E-06	6.5YrCancerDerived_Inh
833	ALL	354323.1	3793143	3.35E-06	6.5YrCancerDerived_Inh
834	ALL	354348.1	3793143	3.17E-06	6.5YrCancerDerived_Inh
835	ALL	354373.1	3793143	2.99E-06	6.5YrCancerDerived_Inh
836	ALL	354398.1	3793143	2.81E-06	6.5YrCancerDerived_Inh
837	ALL	354423.1	3793143	2.67E-06	6.5YrCancerDerived_Inh
838	ALL	354448.1	3793143	2.52E-06	6.5YrCancerDerived_Inh
839	ALL	354473.1	3793143	2.38E-06	6.5YrCancerDerived_Inh
840	ALL	354498.1	3793143	2.25E-06	6.5YrCancerDerived_Inh
841	ALL	354523.1	3793143	2.15E-06	6.5YrCancerDerived_Inh
842	ALL	354548.1	3793143	2.04E-06	6.5YrCancerDerived_Inh
843	ALL	353773.1	3793168	1.62E-05	6.5YrCancerDerived_Inh
844	ALL	353798.1	3793168	1.22E-05	6.5YrCancerDerived_Inh

845	ALL	353823.1	3793168	9.84E-06	6.5YrCancerDerived_Inh
846	ALL	353848.1	3793168	8.64E-06	6.5YrCancerDerived_Inh
847	ALL	353873.1	3793168	8.12E-06	6.5YrCancerDerived_Inh
848	ALL	353898.1	3793168	7.79E-06	6.5YrCancerDerived_Inh
849	ALL	353923.1	3793168	7.60E-06	6.5YrCancerDerived_Inh
850	ALL	353948.1	3793168	7.51E-06	6.5YrCancerDerived_Inh
851	ALL	353973.1	3793168	7.36E-06	6.5YrCancerDerived_Inh
852	ALL	353998.1	3793168	7.22E-06	6.5YrCancerDerived_Inh
853	ALL	354023.1	3793168	7.03E-06	6.5YrCancerDerived_Inh
854	ALL	354048.1	3793168	6.78E-06	6.5YrCancerDerived_Inh
855	ALL	354073.1	3793168	6.47E-06	6.5YrCancerDerived_Inh
856	ALL	354098.1	3793168	6.17E-06	6.5YrCancerDerived_Inh
857	ALL	354123.1	3793168	5.91E-06	6.5YrCancerDerived_Inh
858	ALL	354148.1	3793168	5.55E-06	6.5YrCancerDerived_Inh
859	ALL	354173.1	3793168	5.25E-06	6.5YrCancerDerived_Inh
860	ALL	354198.1	3793168	4.92E-06	6.5YrCancerDerived_Inh
861	ALL	354223.1	3793168	4.60E-06	6.5YrCancerDerived_Inh
862	ALL	354248.1	3793168	4.31E-06	6.5YrCancerDerived_Inh
863	ALL	354273.1	3793168	4.04E-06	6.5YrCancerDerived_Inh
864	ALL	354298.1	3793168	3.76E-06	6.5YrCancerDerived_Inh
865	ALL	354323.1	3793168	3.54E-06	6.5YrCancerDerived_Inh
866	ALL	354348.1	3793168	3.34E-06	6.5YrCancerDerived_Inh
867	ALL	354373.1	3793168	3.14E-06	6.5YrCancerDerived_Inh
868	ALL	354398.1	3793168	2.94E-06	6.5YrCancerDerived_Inh
869	ALL	354423.1	3793168	2.79E-06	6.5YrCancerDerived_Inh
870	ALL	354448.1	3793168	2.62E-06	6.5YrCancerDerived_Inh
871	ALL	354473.1	3793168	2.47E-06	6.5YrCancerDerived_Inh
872	ALL	354498.1	3793168	2.34E-06	6.5YrCancerDerived_Inh
873	ALL	354523.1	3793168	2.22E-06	6.5YrCancerDerived_Inh
874	ALL	354548.1	3793168	2.10E-06	6.5YrCancerDerived_Inh
875	ALL	353773.1	3793193	1.66E-05	6.5YrCancerDerived_Inh
876	ALL	353798.1	3793193	1.21E-05	6.5YrCancerDerived_Inh
877	ALL	353823.1	3793193	1.01E-05	6.5YrCancerDerived_Inh
878	ALL	353848.1	3793193	9.14E-06	6.5YrCancerDerived_Inh
879	ALL	353873.1	3793193	8.70E-06	6.5YrCancerDerived_Inh
880	ALL	353898.1	3793193	8.45E-06	6.5YrCancerDerived_Inh
881	ALL	353923.1	3793193	8.32E-06	6.5YrCancerDerived_Inh
882	ALL	353948.1	3793193	8.27E-06	6.5YrCancerDerived_Inh
883	ALL	353973.1	3793193	8.13E-06	6.5YrCancerDerived_Inh
884	ALL	353998.1	3793193	7.99E-06	6.5YrCancerDerived_Inh
885	ALL	354023.1	3793193	7.78E-06	6.5YrCancerDerived_Inh
886	ALL	354048.1	3793193	7.50E-06	6.5YrCancerDerived_Inh
887	ALL	354073.1	3793193	7.14E-06	6.5YrCancerDerived_Inh
888	ALL	354098.1	3793193	6.80E-06	6.5YrCancerDerived_Inh
889	ALL	354123.1	3793193	6.48E-06	6.5YrCancerDerived_Inh
890	ALL	354148.1	3793193	6.05E-06	6.5YrCancerDerived_Inh
891	ALL	354173.1	3793193	5.70E-06	6.5YrCancerDerived_Inh

892	ALL	354198.1	3793193	5.32E-06	6.5YrCancerDerived_Inh
893	ALL	354223.1	3793193	4.95E-06	6.5YrCancerDerived_Inh
894	ALL	354248.1	3793193	4.62E-06	6.5YrCancerDerived_Inh
895	ALL	354273.1	3793193	4.31E-06	6.5YrCancerDerived_Inh
896	ALL	354298.1	3793193	3.99E-06	6.5YrCancerDerived_Inh
897	ALL	354323.1	3793193	3.75E-06	6.5YrCancerDerived_Inh
898	ALL	354348.1	3793193	3.53E-06	6.5YrCancerDerived_Inh
899	ALL	354373.1	3793193	3.31E-06	6.5YrCancerDerived_Inh
900	ALL	354398.1	3793193	3.09E-06	6.5YrCancerDerived_Inh
901	ALL	354423.1	3793193	2.92E-06	6.5YrCancerDerived_Inh
902	ALL	354448.1	3793193	2.73E-06	6.5YrCancerDerived_Inh
903	ALL	354473.1	3793193	2.56E-06	6.5YrCancerDerived_Inh
904	ALL	354498.1	3793193	2.42E-06	6.5YrCancerDerived_Inh
905	ALL	354523.1	3793193	2.30E-06	6.5YrCancerDerived_Inh
906	ALL	354548.1	3793193	2.17E-06	6.5YrCancerDerived_Inh
907	ALL	353773.1	3793218	1.68E-05	6.5YrCancerDerived_Inh
908	ALL	353798.1	3793218	1.30E-05	6.5YrCancerDerived_Inh
909	ALL	353823.1	3793218	1.08E-05	6.5YrCancerDerived_Inh
910	ALL	353848.1	3793218	9.84E-06	6.5YrCancerDerived_Inh
911	ALL	353873.1	3793218	9.41E-06	6.5YrCancerDerived_Inh
912	ALL	353898.1	3793218	9.26E-06	6.5YrCancerDerived_Inh
913	ALL	353948.1	3793218	9.20E-06	6.5YrCancerDerived_Inh
914	ALL	353973.1	3793218	9.08E-06	6.5YrCancerDerived_Inh
915	ALL	353998.1	3793218	8.95E-06	6.5YrCancerDerived_Inh
916	ALL	354023.1	3793218	8.73E-06	6.5YrCancerDerived_Inh
917	ALL	354048.1	3793218	8.40E-06	6.5YrCancerDerived_Inh
918	ALL	354073.1	3793218	7.97E-06	6.5YrCancerDerived_Inh
919	ALL	354098.1	3793218	7.60E-06	6.5YrCancerDerived_Inh
920	ALL	354123.1	3793218	7.16E-06	6.5YrCancerDerived_Inh
921	ALL	354148.1	3793218	6.64E-06	6.5YrCancerDerived_Inh
922	ALL	354173.1	3793218	6.19E-06	6.5YrCancerDerived_Inh
923	ALL	354198.1	3793218	5.74E-06	6.5YrCancerDerived_Inh
924	ALL	354223.1	3793218	5.32E-06	6.5YrCancerDerived_Inh
925	ALL	354248.1	3793218	4.93E-06	6.5YrCancerDerived_Inh
926	ALL	354273.1	3793218	4.59E-06	6.5YrCancerDerived_Inh
927	ALL	354298.1	3793218	4.25E-06	6.5YrCancerDerived_Inh
928	ALL	354323.1	3793218	3.97E-06	6.5YrCancerDerived_Inh
929	ALL	354348.1	3793218	3.73E-06	6.5YrCancerDerived_Inh
930	ALL	354373.1	3793218	3.48E-06	6.5YrCancerDerived_Inh
931	ALL	354398.1	3793218	3.24E-06	6.5YrCancerDerived_Inh
932	ALL	354423.1	3793218	3.05E-06	6.5YrCancerDerived_Inh
933	ALL	354448.1	3793218	2.85E-06	6.5YrCancerDerived_Inh
934	ALL	354473.1	3793218	2.67E-06	6.5YrCancerDerived_Inh
935	ALL	354498.1	3793218	2.51E-06	6.5YrCancerDerived_Inh
936	ALL	354523.1	3793218	2.37E-06	6.5YrCancerDerived_Inh
937	ALL	354548.1	3793218	2.24E-06	6.5YrCancerDerived_Inh
938	ALL	354173.1	3793243	6.79E-06	6.5YrCancerDerived_Inh

939	ALL	354198.1	3793243	6.25E-06	6.5YrCancerDerived_Inh
940	ALL	354223.1	3793243	5.75E-06	6.5YrCancerDerived_Inh
941	ALL	354248.1	3793243	5.31E-06	6.5YrCancerDerived_Inh
942	ALL	354273.1	3793243	4.93E-06	6.5YrCancerDerived_Inh
943	ALL	354298.1	3793243	4.54E-06	6.5YrCancerDerived_Inh
944	ALL	354323.1	3793243	4.22E-06	6.5YrCancerDerived_Inh
945	ALL	354348.1	3793243	3.93E-06	6.5YrCancerDerived_Inh
946	ALL	354373.1	3793243	3.66E-06	6.5YrCancerDerived_Inh
947	ALL	354398.1	3793243	3.40E-06	6.5YrCancerDerived_Inh
948	ALL	354423.1	3793243	3.18E-06	6.5YrCancerDerived_Inh
949	ALL	354448.1	3793243	2.98E-06	6.5YrCancerDerived_Inh
950	ALL	354473.1	3793243	2.78E-06	6.5YrCancerDerived_Inh
951	ALL	354498.1	3793243	2.59E-06	6.5YrCancerDerived_Inh
952	ALL	354523.1	3793243	2.44E-06	6.5YrCancerDerived_Inh
953	ALL	354548.1	3793243	2.30E-06	6.5YrCancerDerived_Inh
954	ALL	353773.1	3793268	1.76E-05	6.5YrCancerDerived_Inh
955	ALL	353798.1	3793268	1.43E-05	6.5YrCancerDerived_Inh
956	ALL	353823.1	3793268	1.23E-05	6.5YrCancerDerived_Inh
957	ALL	354173.1	3793268	7.51E-06	6.5YrCancerDerived_Inh
958	ALL	354198.1	3793268	6.84E-06	6.5YrCancerDerived_Inh
959	ALL	354223.1	3793268	6.24E-06	6.5YrCancerDerived_Inh
960	ALL	354248.1	3793268	5.73E-06	6.5YrCancerDerived_Inh
961	ALL	354273.1	3793268	5.30E-06	6.5YrCancerDerived_Inh
962	ALL	354298.1	3793268	4.85E-06	6.5YrCancerDerived_Inh
963	ALL	354323.1	3793268	4.48E-06	6.5YrCancerDerived_Inh
964	ALL	354348.1	3793268	4.16E-06	6.5YrCancerDerived_Inh
965	ALL	354373.1	3793268	3.84E-06	6.5YrCancerDerived_Inh
966	ALL	354398.1	3793268	3.55E-06	6.5YrCancerDerived_Inh
967	ALL	354423.1	3793268	3.31E-06	6.5YrCancerDerived_Inh
968	ALL	354448.1	3793268	3.10E-06	6.5YrCancerDerived_Inh
969	ALL	354473.1	3793268	2.88E-06	6.5YrCancerDerived_Inh
970	ALL	354498.1	3793268	2.68E-06	6.5YrCancerDerived_Inh
971	ALL	354523.1	3793268	2.52E-06	6.5YrCancerDerived_Inh
972	ALL	354548.1	3793268	2.37E-06	6.5YrCancerDerived_Inh
973	ALL	353773.1	3793293	1.64E-05	6.5YrCancerDerived_Inh
974	ALL	353798.1	3793293	1.50E-05	6.5YrCancerDerived_Inh
975	ALL	353823.1	3793293	1.33E-05	6.5YrCancerDerived_Inh
976	ALL	354173.1	3793293	8.45E-06	6.5YrCancerDerived_Inh
977	ALL	354198.1	3793293	7.61E-06	6.5YrCancerDerived_Inh
978	ALL	354223.1	3793293	6.88E-06	6.5YrCancerDerived_Inh
979	ALL	354248.1	3793293	6.25E-06	6.5YrCancerDerived_Inh
980	ALL	354273.1	3793293	5.71E-06	6.5YrCancerDerived_Inh
981	ALL	354298.1	3793293	5.18E-06	6.5YrCancerDerived_Inh
982	ALL	354323.1	3793293	4.76E-06	6.5YrCancerDerived_Inh
983	ALL	354348.1	3793293	4.39E-06	6.5YrCancerDerived_Inh
984	ALL	354373.1	3793293	4.03E-06	6.5YrCancerDerived_Inh
985	ALL	354398.1	3793293	3.72E-06	6.5YrCancerDerived_Inh

986	ALL	354423.1	3793293	3.45E-06	6.5YrCancerDerived_Inh
987	ALL	354448.1	3793293	3.22E-06	6.5YrCancerDerived_Inh
988	ALL	354473.1	3793293	2.97E-06	6.5YrCancerDerived_Inh
989	ALL	354498.1	3793293	2.76E-06	6.5YrCancerDerived_Inh
990	ALL	354523.1	3793293	2.58E-06	6.5YrCancerDerived_Inh
991	ALL	354548.1	3793293	2.43E-06	6.5YrCancerDerived_Inh
992	ALL	353773.1	3793318	1.86E-05	6.5YrCancerDerived_Inh
993	ALL	353798.1	3793318	1.58E-05	6.5YrCancerDerived_Inh
994	ALL	353823.1	3793318	1.45E-05	6.5YrCancerDerived_Inh
995	ALL	354173.1	3793318	9.61E-06	6.5YrCancerDerived_Inh
996	ALL	354198.1	3793318	8.51E-06	6.5YrCancerDerived_Inh
997	ALL	354223.1	3793318	7.57E-06	6.5YrCancerDerived_Inh
998	ALL	354248.1	3793318	6.82E-06	6.5YrCancerDerived_Inh
999	ALL	354273.1	3793318	6.16E-06	6.5YrCancerDerived_Inh
1000	ALL	354298.1	3793318	5.55E-06	6.5YrCancerDerived_Inh
1001	ALL	354323.1	3793318	5.06E-06	6.5YrCancerDerived_Inh
1002	ALL	354348.1	3793318	4.63E-06	6.5YrCancerDerived_Inh
1003	ALL	354373.1	3793318	4.23E-06	6.5YrCancerDerived_Inh
1004	ALL	354398.1	3793318	3.87E-06	6.5YrCancerDerived_Inh
1005	ALL	354423.1	3793318	3.58E-06	6.5YrCancerDerived_Inh
1006	ALL	354448.1	3793318	3.32E-06	6.5YrCancerDerived_Inh
1007	ALL	354473.1	3793318	3.06E-06	6.5YrCancerDerived_Inh
1008	ALL	354498.1	3793318	2.82E-06	6.5YrCancerDerived_Inh
1009	ALL	354523.1	3793318	2.64E-06	6.5YrCancerDerived_Inh
1010	ALL	354548.1	3793318	2.49E-06	6.5YrCancerDerived_Inh
1011	ALL	353773.1	3793343	2.04E-05	6.5YrCancerDerived_Inh
1012	ALL	353798.1	3793343	1.67E-05	6.5YrCancerDerived_Inh
1013	ALL	353823.1	3793343	1.62E-05	6.5YrCancerDerived_Inh
1014	ALL	354173.1	3793343	1.09E-05	6.5YrCancerDerived_Inh
1015	ALL	354198.1	3793343	9.50E-06	6.5YrCancerDerived_Inh
1016	ALL	354223.1	3793343	8.28E-06	6.5YrCancerDerived_Inh
1017	ALL	354248.1	3793343	7.39E-06	6.5YrCancerDerived_Inh
1018	ALL	354273.1	3793343	6.62E-06	6.5YrCancerDerived_Inh
1019	ALL	354298.1	3793343	5.94E-06	6.5YrCancerDerived_Inh
1020	ALL	354323.1	3793343	5.36E-06	6.5YrCancerDerived_Inh
1021	ALL	354348.1	3793343	4.88E-06	6.5YrCancerDerived_Inh
1022	ALL	354373.1	3793343	4.43E-06	6.5YrCancerDerived_Inh
1023	ALL	354398.1	3793343	4.03E-06	6.5YrCancerDerived_Inh
1024	ALL	354423.1	3793343	3.70E-06	6.5YrCancerDerived_Inh
1025	ALL	354448.1	3793343	3.42E-06	6.5YrCancerDerived_Inh
1026	ALL	354473.1	3793343	3.13E-06	6.5YrCancerDerived_Inh
1027	ALL	354498.1	3793343	2.88E-06	6.5YrCancerDerived_Inh
1028	ALL	354523.1	3793343	2.69E-06	6.5YrCancerDerived_Inh
1029	ALL	354548.1	3793343	2.54E-06	6.5YrCancerDerived_Inh
1030	ALL	354173.1	3793368	1.26E-05	6.5YrCancerDerived_Inh
1031	ALL	354198.1	3793368	1.07E-05	6.5YrCancerDerived_Inh
1032	ALL	354223.1	3793368	9.11E-06	6.5YrCancerDerived_Inh

1033	ALL	354248.1	3793368	8.00E-06	6.5YrCancerDerived_Inh
1034	ALL	354273.1	3793368	7.09E-06	6.5YrCancerDerived_Inh
1035	ALL	354298.1	3793368	6.31E-06	6.5YrCancerDerived_Inh
1036	ALL	354323.1	3793368	5.65E-06	6.5YrCancerDerived_Inh
1037	ALL	354348.1	3793368	5.10E-06	6.5YrCancerDerived_Inh
1038	ALL	354373.1	3793368	4.62E-06	6.5YrCancerDerived_Inh
1039	ALL	354398.1	3793368	4.19E-06	6.5YrCancerDerived_Inh
1040	ALL	354423.1	3793368	3.82E-06	6.5YrCancerDerived_Inh
1041	ALL	354448.1	3793368	3.49E-06	6.5YrCancerDerived_Inh
1042	ALL	354473.1	3793368	3.18E-06	6.5YrCancerDerived_Inh
1043	ALL	354498.1	3793368	2.92E-06	6.5YrCancerDerived_Inh
1044	ALL	354523.1	3793368	2.73E-06	6.5YrCancerDerived_Inh
1045	ALL	354548.1	3793368	2.58E-06	6.5YrCancerDerived_Inh
1046	ALL	354173.1	3793393	1.46E-05	6.5YrCancerDerived_Inh
1047	ALL	354198.1	3793393	1.20E-05	6.5YrCancerDerived_Inh
1048	ALL	354223.1	3793393	1.01E-05	6.5YrCancerDerived_Inh
1049	ALL	354248.1	3793393	8.67E-06	6.5YrCancerDerived_Inh
1050	ALL	354273.1	3793393	7.56E-06	6.5YrCancerDerived_Inh
1051	ALL	354298.1	3793393	6.65E-06	6.5YrCancerDerived_Inh
1052	ALL	354323.1	3793393	5.91E-06	6.5YrCancerDerived_Inh
1053	ALL	354348.1	3793393	5.29E-06	6.5YrCancerDerived_Inh
1054	ALL	354373.1	3793393	4.77E-06	6.5YrCancerDerived_Inh
1055	ALL	354398.1	3793393	4.30E-06	6.5YrCancerDerived_Inh
1056	ALL	354423.1	3793393	3.91E-06	6.5YrCancerDerived_Inh
1057	ALL	354448.1	3793393	3.55E-06	6.5YrCancerDerived_Inh
1058	ALL	354473.1	3793393	3.22E-06	6.5YrCancerDerived_Inh
1059	ALL	354498.1	3793393	2.97E-06	6.5YrCancerDerived_Inh
1060	ALL	354523.1	3793393	2.77E-06	6.5YrCancerDerived_Inh
1061	ALL	354548.1	3793393	2.62E-06	6.5YrCancerDerived_Inh
1062	ALL	354198.1	3793418	1.35E-05	6.5YrCancerDerived_Inh
1063	ALL	354223.1	3793418	1.11E-05	6.5YrCancerDerived_Inh
1064	ALL	354248.1	3793418	9.32E-06	6.5YrCancerDerived_Inh
1065	ALL	354273.1	3793418	7.99E-06	6.5YrCancerDerived_Inh
1066	ALL	354298.1	3793418	6.97E-06	6.5YrCancerDerived_Inh
1067	ALL	354323.1	3793418	6.14E-06	6.5YrCancerDerived_Inh
1068	ALL	354348.1	3793418	5.46E-06	6.5YrCancerDerived_Inh
1069	ALL	354373.1	3793418	4.90E-06	6.5YrCancerDerived_Inh
1070	ALL	354398.1	3793418	4.42E-06	6.5YrCancerDerived_Inh
1071	ALL	354423.1	3793418	4.01E-06	6.5YrCancerDerived_Inh
1072	ALL	354448.1	3793418	3.61E-06	6.5YrCancerDerived_Inh
1073	ALL	354473.1	3793418	3.26E-06	6.5YrCancerDerived_Inh
1074	ALL	354498.1	3793418	3.02E-06	6.5YrCancerDerived_Inh
1075	ALL	354523.1	3793418	2.85E-06	6.5YrCancerDerived_Inh
1076	ALL	354548.1	3793418	2.70E-06	6.5YrCancerDerived_Inh
1077	ALL	353015.5	3792510	6.68E-07	6.5YrCancerDerived_Inh
1078	ALL	353040.5	3792510	6.86E-07	6.5YrCancerDerived_Inh
1079	ALL	353065.5	3792510	7.04E-07	6.5YrCancerDerived_Inh

1080	ALL	353090.5	3792510	7.23E-07	6.5YrCancerDerived_Inh
1081	ALL	353115.5	3792510	7.46E-07	6.5YrCancerDerived_Inh
1082	ALL	353140.5	3792510	7.69E-07	6.5YrCancerDerived_Inh
1083	ALL	353165.5	3792510	7.91E-07	6.5YrCancerDerived_Inh
1084	ALL	353190.5	3792510	8.12E-07	6.5YrCancerDerived_Inh
1085	ALL	353215.5	3792510	8.44E-07	6.5YrCancerDerived_Inh
1086	ALL	353240.5	3792510	8.73E-07	6.5YrCancerDerived_Inh
1087	ALL	353265.5	3792510	9.02E-07	6.5YrCancerDerived_Inh
1088	ALL	353290.5	3792510	9.34E-07	6.5YrCancerDerived_Inh
1089	ALL	353315.5	3792510	9.67E-07	6.5YrCancerDerived_Inh
1090	ALL	353340.5	3792510	1.00E-06	6.5YrCancerDerived_Inh
1091	ALL	353365.5	3792510	1.04E-06	6.5YrCancerDerived_Inh
1092	ALL	353390.5	3792510	1.08E-06	6.5YrCancerDerived_Inh
1093	ALL	353415.5	3792510	1.12E-06	6.5YrCancerDerived_Inh
1094	ALL	353440.5	3792510	1.17E-06	6.5YrCancerDerived_Inh
1095	ALL	353465.5	3792510	1.22E-06	6.5YrCancerDerived_Inh
1096	ALL	353490.5	3792510	1.28E-06	6.5YrCancerDerived_Inh
1097	ALL	353515.5	3792510	1.34E-06	6.5YrCancerDerived_Inh
1098	ALL	353540.5	3792510	1.40E-06	6.5YrCancerDerived_Inh
1099	ALL	353565.5	3792510	1.48E-06	6.5YrCancerDerived_Inh
1100	ALL	353590.5	3792510	1.56E-06	6.5YrCancerDerived_Inh
1101	ALL	353615.5	3792510	1.64E-06	6.5YrCancerDerived_Inh
1102	ALL	353640.5	3792510	1.74E-06	6.5YrCancerDerived_Inh
1103	ALL	353665.5	3792510	1.84E-06	6.5YrCancerDerived_Inh
1104	ALL	353690.5	3792510	1.95E-06	6.5YrCancerDerived_Inh
1105	ALL	353715.5	3792510	2.06E-06	6.5YrCancerDerived_Inh
1106	ALL	353015.5	3792535	6.84E-07	6.5YrCancerDerived_Inh
1107	ALL	353040.5	3792535	7.03E-07	6.5YrCancerDerived_Inh
1108	ALL	353065.5	3792535	7.22E-07	6.5YrCancerDerived_Inh
1109	ALL	353090.5	3792535	7.41E-07	6.5YrCancerDerived_Inh
1110	ALL	353115.5	3792535	7.66E-07	6.5YrCancerDerived_Inh
1111	ALL	353140.5	3792535	7.89E-07	6.5YrCancerDerived_Inh
1112	ALL	353165.5	3792535	8.14E-07	6.5YrCancerDerived_Inh
1113	ALL	353190.5	3792535	8.31E-07	6.5YrCancerDerived_Inh
1114	ALL	353215.5	3792535	8.68E-07	6.5YrCancerDerived_Inh
1115	ALL	353240.5	3792535	9.00E-07	6.5YrCancerDerived_Inh
1116	ALL	353265.5	3792535	9.32E-07	6.5YrCancerDerived_Inh
1117	ALL	353290.5	3792535	9.66E-07	6.5YrCancerDerived_Inh
1118	ALL	353315.5	3792535	1.00E-06	6.5YrCancerDerived_Inh
1119	ALL	353340.5	3792535	1.04E-06	6.5YrCancerDerived_Inh
1120	ALL	353365.5	3792535	1.08E-06	6.5YrCancerDerived_Inh
1121	ALL	353390.5	3792535	1.12E-06	6.5YrCancerDerived_Inh
1122	ALL	353415.5	3792535	1.17E-06	6.5YrCancerDerived_Inh
1123	ALL	353440.5	3792535	1.22E-06	6.5YrCancerDerived_Inh
1124	ALL	353465.5	3792535	1.28E-06	6.5YrCancerDerived_Inh
1125	ALL	353490.5	3792535	1.34E-06	6.5YrCancerDerived_Inh
1126	ALL	353515.5	3792535	1.41E-06	6.5YrCancerDerived_Inh

1127	ALL	353540.5	3792535	1.48E-06	6.5YrCancerDerived_Inh
1128	ALL	353565.5	3792535	1.56E-06	6.5YrCancerDerived_Inh
1129	ALL	353590.5	3792535	1.66E-06	6.5YrCancerDerived_Inh
1130	ALL	353615.5	3792535	1.76E-06	6.5YrCancerDerived_Inh
1131	ALL	353640.5	3792535	1.88E-06	6.5YrCancerDerived_Inh
1132	ALL	353665.5	3792535	2.01E-06	6.5YrCancerDerived_Inh
1133	ALL	353690.5	3792535	2.16E-06	6.5YrCancerDerived_Inh
1134	ALL	353715.5	3792535	2.32E-06	6.5YrCancerDerived_Inh
1135	ALL	353015.5	3792560	7.00E-07	6.5YrCancerDerived_Inh
1136	ALL	353040.5	3792560	7.20E-07	6.5YrCancerDerived_Inh
1137	ALL	353065.5	3792560	7.40E-07	6.5YrCancerDerived_Inh
1138	ALL	353090.5	3792560	7.60E-07	6.5YrCancerDerived_Inh
1139	ALL	353115.5	3792560	7.86E-07	6.5YrCancerDerived_Inh
1140	ALL	353140.5	3792560	8.11E-07	6.5YrCancerDerived_Inh
1141	ALL	353165.5	3792560	8.36E-07	6.5YrCancerDerived_Inh
1142	ALL	353190.5	3792560	8.52E-07	6.5YrCancerDerived_Inh
1143	ALL	353215.5	3792560	8.93E-07	6.5YrCancerDerived_Inh
1144	ALL	353240.5	3792560	9.27E-07	6.5YrCancerDerived_Inh
1145	ALL	353265.5	3792560	9.62E-07	6.5YrCancerDerived_Inh
1146	ALL	353290.5	3792560	9.98E-07	6.5YrCancerDerived_Inh
1147	ALL	353315.5	3792560	1.04E-06	6.5YrCancerDerived_Inh
1148	ALL	353340.5	3792560	1.07E-06	6.5YrCancerDerived_Inh
1149	ALL	353365.5	3792560	1.12E-06	6.5YrCancerDerived_Inh
1150	ALL	353390.5	3792560	1.17E-06	6.5YrCancerDerived_Inh
1151	ALL	353415.5	3792560	1.22E-06	6.5YrCancerDerived_Inh
1152	ALL	353440.5	3792560	1.28E-06	6.5YrCancerDerived_Inh
1153	ALL	353465.5	3792560	1.34E-06	6.5YrCancerDerived_Inh
1154	ALL	353490.5	3792560	1.40E-06	6.5YrCancerDerived_Inh
1155	ALL	353515.5	3792560	1.48E-06	6.5YrCancerDerived_Inh
1156	ALL	353540.5	3792560	1.57E-06	6.5YrCancerDerived_Inh
1157	ALL	353565.5	3792560	1.66E-06	6.5YrCancerDerived_Inh
1158	ALL	353590.5	3792560	1.77E-06	6.5YrCancerDerived_Inh
1159	ALL	353615.5	3792560	1.90E-06	6.5YrCancerDerived_Inh
1160	ALL	353640.5	3792560	2.05E-06	6.5YrCancerDerived_Inh
1161	ALL	353665.5	3792560	2.22E-06	6.5YrCancerDerived_Inh
1162	ALL	353690.5	3792560	2.43E-06	6.5YrCancerDerived_Inh
1163	ALL	353715.5	3792560	2.67E-06	6.5YrCancerDerived_Inh
1164	ALL	353015.5	3792585	7.15E-07	6.5YrCancerDerived_Inh
1165	ALL	353040.5	3792585	7.36E-07	6.5YrCancerDerived_Inh
1166	ALL	353065.5	3792585	7.57E-07	6.5YrCancerDerived_Inh
1167	ALL	353090.5	3792585	7.80E-07	6.5YrCancerDerived_Inh
1168	ALL	353115.5	3792585	8.07E-07	6.5YrCancerDerived_Inh
1169	ALL	353140.5	3792585	8.33E-07	6.5YrCancerDerived_Inh
1170	ALL	353165.5	3792585	8.59E-07	6.5YrCancerDerived_Inh
1171	ALL	353190.5	3792585	8.80E-07	6.5YrCancerDerived_Inh
1172	ALL	353215.5	3792585	9.20E-07	6.5YrCancerDerived_Inh
1173	ALL	353240.5	3792585	9.55E-07	6.5YrCancerDerived_Inh

1174	ALL	353265.5	3792585	9.92E-07	6.5YrCancerDerived_Inh
1175	ALL	353290.5	3792585	1.03E-06	6.5YrCancerDerived_Inh
1176	ALL	353315.5	3792585	1.07E-06	6.5YrCancerDerived_Inh
1177	ALL	353340.5	3792585	1.11E-06	6.5YrCancerDerived_Inh
1178	ALL	353365.5	3792585	1.16E-06	6.5YrCancerDerived_Inh
1179	ALL	353390.5	3792585	1.21E-06	6.5YrCancerDerived_Inh
1180	ALL	353415.5	3792585	1.27E-06	6.5YrCancerDerived_Inh
1181	ALL	353440.5	3792585	1.33E-06	6.5YrCancerDerived_Inh
1182	ALL	353465.5	3792585	1.40E-06	6.5YrCancerDerived_Inh
1183	ALL	353490.5	3792585	1.48E-06	6.5YrCancerDerived_Inh
1184	ALL	353515.5	3792585	1.56E-06	6.5YrCancerDerived_Inh
1185	ALL	353540.5	3792585	1.66E-06	6.5YrCancerDerived_Inh
1186	ALL	353565.5	3792585	1.77E-06	6.5YrCancerDerived_Inh
1187	ALL	353590.5	3792585	1.91E-06	6.5YrCancerDerived_Inh
1188	ALL	353615.5	3792585	2.06E-06	6.5YrCancerDerived_Inh
1189	ALL	353640.5	3792585	2.25E-06	6.5YrCancerDerived_Inh
1190	ALL	353665.5	3792585	2.49E-06	6.5YrCancerDerived_Inh
1191	ALL	353690.5	3792585	2.80E-06	6.5YrCancerDerived_Inh
1192	ALL	353715.5	3792585	3.19E-06	6.5YrCancerDerived_Inh
1193	ALL	353015.5	3792610	7.31E-07	6.5YrCancerDerived_Inh
1194	ALL	353040.5	3792610	7.53E-07	6.5YrCancerDerived_Inh
1195	ALL	353065.5	3792610	7.77E-07	6.5YrCancerDerived_Inh
1196	ALL	353090.5	3792610	8.01E-07	6.5YrCancerDerived_Inh
1197	ALL	353115.5	3792610	8.29E-07	6.5YrCancerDerived_Inh
1198	ALL	353140.5	3792610	8.56E-07	6.5YrCancerDerived_Inh
1199	ALL	353165.5	3792610	8.84E-07	6.5YrCancerDerived_Inh
1200	ALL	353190.5	3792610	9.12E-07	6.5YrCancerDerived_Inh
1201	ALL	353215.5	3792610	9.49E-07	6.5YrCancerDerived_Inh
1202	ALL	353240.5	3792610	9.85E-07	6.5YrCancerDerived_Inh
1203	ALL	353265.5	3792610	1.02E-06	6.5YrCancerDerived_Inh
1204	ALL	353290.5	3792610	1.07E-06	6.5YrCancerDerived_Inh
1205	ALL	353315.5	3792610	1.11E-06	6.5YrCancerDerived_Inh
1206	ALL	353340.5	3792610	1.15E-06	6.5YrCancerDerived_Inh
1207	ALL	353365.5	3792610	1.20E-06	6.5YrCancerDerived_Inh
1208	ALL	353390.5	3792610	1.26E-06	6.5YrCancerDerived_Inh
1209	ALL	353415.5	3792610	1.33E-06	6.5YrCancerDerived_Inh
1210	ALL	353440.5	3792610	1.39E-06	6.5YrCancerDerived_Inh
1211	ALL	353465.5	3792610	1.47E-06	6.5YrCancerDerived_Inh
1212	ALL	353490.5	3792610	1.55E-06	6.5YrCancerDerived_Inh
1213	ALL	353515.5	3792610	1.65E-06	6.5YrCancerDerived_Inh
1214	ALL	353540.5	3792610	1.76E-06	6.5YrCancerDerived_Inh
1215	ALL	353565.5	3792610	1.90E-06	6.5YrCancerDerived_Inh
1216	ALL	353590.5	3792610	2.06E-06	6.5YrCancerDerived_Inh
1217	ALL	353615.5	3792610	2.25E-06	6.5YrCancerDerived_Inh
1218	ALL	353640.5	3792610	2.49E-06	6.5YrCancerDerived_Inh
1219	ALL	353665.5	3792610	2.82E-06	6.5YrCancerDerived_Inh
1220	ALL	353690.5	3792610	3.29E-06	6.5YrCancerDerived_Inh

1221	ALL	353715.5	3792610	4.00E-06	6.5YrCancerDerived_Inh
1222	ALL	353015.5	3792635	7.48E-07	6.5YrCancerDerived_Inh
1223	ALL	353040.5	3792635	7.71E-07	6.5YrCancerDerived_Inh
1224	ALL	353065.5	3792635	7.96E-07	6.5YrCancerDerived_Inh
1225	ALL	353090.5	3792635	8.21E-07	6.5YrCancerDerived_Inh
1226	ALL	353115.5	3792635	8.49E-07	6.5YrCancerDerived_Inh
1227	ALL	353140.5	3792635	8.77E-07	6.5YrCancerDerived_Inh
1228	ALL	353165.5	3792635	9.07E-07	6.5YrCancerDerived_Inh
1229	ALL	353190.5	3792635	9.39E-07	6.5YrCancerDerived_Inh
1230	ALL	353215.5	3792635	9.76E-07	6.5YrCancerDerived_Inh
1231	ALL	353240.5	3792635	1.01E-06	6.5YrCancerDerived_Inh
1232	ALL	353265.5	3792635	1.06E-06	6.5YrCancerDerived_Inh
1233	ALL	353290.5	3792635	1.10E-06	6.5YrCancerDerived_Inh
1234	ALL	353315.5	3792635	1.15E-06	6.5YrCancerDerived_Inh
1235	ALL	353340.5	3792635	1.20E-06	6.5YrCancerDerived_Inh
1236	ALL	353365.5	3792635	1.25E-06	6.5YrCancerDerived_Inh
1237	ALL	353390.5	3792635	1.31E-06	6.5YrCancerDerived_Inh
1238	ALL	353415.5	3792635	1.38E-06	6.5YrCancerDerived_Inh
1239	ALL	353440.5	3792635	1.46E-06	6.5YrCancerDerived_Inh
1240	ALL	353465.5	3792635	1.54E-06	6.5YrCancerDerived_Inh
1241	ALL	353490.5	3792635	1.64E-06	6.5YrCancerDerived_Inh
1242	ALL	353515.5	3792635	1.75E-06	6.5YrCancerDerived_Inh
1243	ALL	353540.5	3792635	1.88E-06	6.5YrCancerDerived_Inh
1244	ALL	353565.5	3792635	2.03E-06	6.5YrCancerDerived_Inh
1245	ALL	353590.5	3792635	2.22E-06	6.5YrCancerDerived_Inh
1246	ALL	353615.5	3792635	2.46E-06	6.5YrCancerDerived_Inh
1247	ALL	353640.5	3792635	2.77E-06	6.5YrCancerDerived_Inh
1248	ALL	353665.5	3792635	3.22E-06	6.5YrCancerDerived_Inh
1249	ALL	353690.5	3792635	3.93E-06	6.5YrCancerDerived_Inh
1250	ALL	353715.5	3792635	5.22E-06	6.5YrCancerDerived_Inh
1251	ALL	353015.5	3792660	7.66E-07	6.5YrCancerDerived_Inh
1252	ALL	353040.5	3792660	7.90E-07	6.5YrCancerDerived_Inh
1253	ALL	353065.5	3792660	8.16E-07	6.5YrCancerDerived_Inh
1254	ALL	353090.5	3792660	8.44E-07	6.5YrCancerDerived_Inh
1255	ALL	353115.5	3792660	8.73E-07	6.5YrCancerDerived_Inh
1256	ALL	353140.5	3792660	9.02E-07	6.5YrCancerDerived_Inh
1257	ALL	353165.5	3792660	9.33E-07	6.5YrCancerDerived_Inh
1258	ALL	353190.5	3792660	9.66E-07	6.5YrCancerDerived_Inh
1259	ALL	353215.5	3792660	1.01E-06	6.5YrCancerDerived_Inh
1260	ALL	353240.5	3792660	1.05E-06	6.5YrCancerDerived_Inh
1261	ALL	353265.5	3792660	1.09E-06	6.5YrCancerDerived_Inh
1262	ALL	353290.5	3792660	1.14E-06	6.5YrCancerDerived_Inh
1263	ALL	353315.5	3792660	1.19E-06	6.5YrCancerDerived_Inh
1264	ALL	353340.5	3792660	1.24E-06	6.5YrCancerDerived_Inh
1265	ALL	353365.5	3792660	1.30E-06	6.5YrCancerDerived_Inh
1266	ALL	353390.5	3792660	1.37E-06	6.5YrCancerDerived_Inh
1267	ALL	353415.5	3792660	1.44E-06	6.5YrCancerDerived_Inh

1268	ALL	353440.5	3792660	1.52E-06	6.5YrCancerDerived_Inh
1269	ALL	353465.5	3792660	1.62E-06	6.5YrCancerDerived_Inh
1270	ALL	353490.5	3792660	1.72E-06	6.5YrCancerDerived_Inh
1271	ALL	353515.5	3792660	1.85E-06	6.5YrCancerDerived_Inh
1272	ALL	353540.5	3792660	2.00E-06	6.5YrCancerDerived_Inh
1273	ALL	353565.5	3792660	2.17E-06	6.5YrCancerDerived_Inh
1274	ALL	353590.5	3792660	2.40E-06	6.5YrCancerDerived_Inh
1275	ALL	353615.5	3792660	2.68E-06	6.5YrCancerDerived_Inh
1276	ALL	353640.5	3792660	3.08E-06	6.5YrCancerDerived_Inh
1277	ALL	353665.5	3792660	3.68E-06	6.5YrCancerDerived_Inh
1278	ALL	353690.5	3792660	4.69E-06	6.5YrCancerDerived_Inh
1279	ALL	353715.5	3792660	6.71E-06	6.5YrCancerDerived_Inh
1280	ALL	353015.5	3792685	7.84E-07	6.5YrCancerDerived_Inh
1281	ALL	353040.5	3792685	8.10E-07	6.5YrCancerDerived_Inh
1282	ALL	353065.5	3792685	8.38E-07	6.5YrCancerDerived_Inh
1283	ALL	353090.5	3792685	8.67E-07	6.5YrCancerDerived_Inh
1284	ALL	353115.5	3792685	8.97E-07	6.5YrCancerDerived_Inh
1285	ALL	353140.5	3792685	9.28E-07	6.5YrCancerDerived_Inh
1286	ALL	353165.5	3792685	9.60E-07	6.5YrCancerDerived_Inh
1287	ALL	353190.5	3792685	9.90E-07	6.5YrCancerDerived_Inh
1288	ALL	353215.5	3792685	1.03E-06	6.5YrCancerDerived_Inh
1289	ALL	353240.5	3792685	1.08E-06	6.5YrCancerDerived_Inh
1290	ALL	353265.5	3792685	1.13E-06	6.5YrCancerDerived_Inh
1291	ALL	353290.5	3792685	1.18E-06	6.5YrCancerDerived_Inh
1292	ALL	353315.5	3792685	1.23E-06	6.5YrCancerDerived_Inh
1293	ALL	353340.5	3792685	1.29E-06	6.5YrCancerDerived_Inh
1294	ALL	353365.5	3792685	1.35E-06	6.5YrCancerDerived_Inh
1295	ALL	353390.5	3792685	1.42E-06	6.5YrCancerDerived_Inh
1296	ALL	353415.5	3792685	1.50E-06	6.5YrCancerDerived_Inh
1297	ALL	353440.5	3792685	1.60E-06	6.5YrCancerDerived_Inh
1298	ALL	353465.5	3792685	1.70E-06	6.5YrCancerDerived_Inh
1299	ALL	353490.5	3792685	1.82E-06	6.5YrCancerDerived_Inh
1300	ALL	353515.5	3792685	1.95E-06	6.5YrCancerDerived_Inh
1301	ALL	353540.5	3792685	2.12E-06	6.5YrCancerDerived_Inh
1302	ALL	353565.5	3792685	2.32E-06	6.5YrCancerDerived_Inh
1303	ALL	353590.5	3792685	2.58E-06	6.5YrCancerDerived_Inh
1304	ALL	353615.5	3792685	2.92E-06	6.5YrCancerDerived_Inh
1305	ALL	353640.5	3792685	3.40E-06	6.5YrCancerDerived_Inh
1306	ALL	353665.5	3792685	4.13E-06	6.5YrCancerDerived_Inh
1307	ALL	353690.5	3792685	5.37E-06	6.5YrCancerDerived_Inh
1308	ALL	353715.5	3792685	7.79E-06	6.5YrCancerDerived_Inh
1309	ALL	353015.5	3792710	8.01E-07	6.5YrCancerDerived_Inh
1310	ALL	353040.5	3792710	8.29E-07	6.5YrCancerDerived_Inh
1311	ALL	353065.5	3792710	8.57E-07	6.5YrCancerDerived_Inh
1312	ALL	353090.5	3792710	8.88E-07	6.5YrCancerDerived_Inh
1313	ALL	353115.5	3792710	9.20E-07	6.5YrCancerDerived_Inh
1314	ALL	353140.5	3792710	9.53E-07	6.5YrCancerDerived_Inh

1315	ALL	353165.5	3792710	9.86E-07	6.5YrCancerDerived_Inh
1316	ALL	353190.5	3792710	1.01E-06	6.5YrCancerDerived_Inh
1317	ALL	353215.5	3792710	1.06E-06	6.5YrCancerDerived_Inh
1318	ALL	353240.5	3792710	1.11E-06	6.5YrCancerDerived_Inh
1319	ALL	353265.5	3792710	1.16E-06	6.5YrCancerDerived_Inh
1320	ALL	353290.5	3792710	1.22E-06	6.5YrCancerDerived_Inh
1321	ALL	353315.5	3792710	1.27E-06	6.5YrCancerDerived_Inh
1322	ALL	353340.5	3792710	1.33E-06	6.5YrCancerDerived_Inh
1323	ALL	353365.5	3792710	1.40E-06	6.5YrCancerDerived_Inh
1324	ALL	353390.5	3792710	1.48E-06	6.5YrCancerDerived_Inh
1325	ALL	353415.5	3792710	1.57E-06	6.5YrCancerDerived_Inh
1326	ALL	353440.5	3792710	1.67E-06	6.5YrCancerDerived_Inh
1327	ALL	353465.5	3792710	1.78E-06	6.5YrCancerDerived_Inh
1328	ALL	353490.5	3792710	1.91E-06	6.5YrCancerDerived_Inh
1329	ALL	353515.5	3792710	2.06E-06	6.5YrCancerDerived_Inh
1330	ALL	353540.5	3792710	2.25E-06	6.5YrCancerDerived_Inh
1331	ALL	353565.5	3792710	2.47E-06	6.5YrCancerDerived_Inh
1332	ALL	353590.5	3792710	2.76E-06	6.5YrCancerDerived_Inh
1333	ALL	353615.5	3792710	3.15E-06	6.5YrCancerDerived_Inh
1334	ALL	353640.5	3792710	3.69E-06	6.5YrCancerDerived_Inh
1335	ALL	353665.5	3792710	4.52E-06	6.5YrCancerDerived_Inh
1336	ALL	353690.5	3792710	5.89E-06	6.5YrCancerDerived_Inh
1337	ALL	353715.5	3792710	8.44E-06	6.5YrCancerDerived_Inh
1338	ALL	353015.5	3792735	8.17E-07	6.5YrCancerDerived_Inh
1339	ALL	353040.5	3792735	8.45E-07	6.5YrCancerDerived_Inh
1340	ALL	353065.5	3792735	8.75E-07	6.5YrCancerDerived_Inh
1341	ALL	353090.5	3792735	9.07E-07	6.5YrCancerDerived_Inh
1342	ALL	353115.5	3792735	9.41E-07	6.5YrCancerDerived_Inh
1343	ALL	353140.5	3792735	9.76E-07	6.5YrCancerDerived_Inh
1344	ALL	353165.5	3792735	1.02E-06	6.5YrCancerDerived_Inh
1345	ALL	353190.5	3792735	1.04E-06	6.5YrCancerDerived_Inh
1346	ALL	353215.5	3792735	1.10E-06	6.5YrCancerDerived_Inh
1347	ALL	353240.5	3792735	1.15E-06	6.5YrCancerDerived_Inh
1348	ALL	353265.5	3792735	1.20E-06	6.5YrCancerDerived_Inh
1349	ALL	353290.5	3792735	1.26E-06	6.5YrCancerDerived_Inh
1350	ALL	353315.5	3792735	1.32E-06	6.5YrCancerDerived_Inh
1351	ALL	353340.5	3792735	1.38E-06	6.5YrCancerDerived_Inh
1352	ALL	353365.5	3792735	1.46E-06	6.5YrCancerDerived_Inh
1353	ALL	353390.5	3792735	1.54E-06	6.5YrCancerDerived_Inh
1354	ALL	353415.5	3792735	1.63E-06	6.5YrCancerDerived_Inh
1355	ALL	353440.5	3792735	1.74E-06	6.5YrCancerDerived_Inh
1356	ALL	353465.5	3792735	1.86E-06	6.5YrCancerDerived_Inh
1357	ALL	353490.5	3792735	2.00E-06	6.5YrCancerDerived_Inh
1358	ALL	353515.5	3792735	2.17E-06	6.5YrCancerDerived_Inh
1359	ALL	353540.5	3792735	2.37E-06	6.5YrCancerDerived_Inh
1360	ALL	353565.5	3792735	2.62E-06	6.5YrCancerDerived_Inh
1361	ALL	353590.5	3792735	2.94E-06	6.5YrCancerDerived_Inh

1362	ALL	353615.5	3792735	3.36E-06	6.5YrCancerDerived_Inh
1363	ALL	353640.5	3792735	3.95E-06	6.5YrCancerDerived_Inh
1364	ALL	353665.5	3792735	4.84E-06	6.5YrCancerDerived_Inh
1365	ALL	353690.5	3792735	6.26E-06	6.5YrCancerDerived_Inh
1366	ALL	353715.5	3792735	8.83E-06	6.5YrCancerDerived_Inh
1367	ALL	353015.5	3792760	8.37E-07	6.5YrCancerDerived_Inh
1368	ALL	353040.5	3792760	8.66E-07	6.5YrCancerDerived_Inh
1369	ALL	353065.5	3792760	8.96E-07	6.5YrCancerDerived_Inh
1370	ALL	353090.5	3792760	9.30E-07	6.5YrCancerDerived_Inh
1371	ALL	353115.5	3792760	9.67E-07	6.5YrCancerDerived_Inh
1372	ALL	353140.5	3792760	1.00E-06	6.5YrCancerDerived_Inh
1373	ALL	353165.5	3792760	1.04E-06	6.5YrCancerDerived_Inh
1374	ALL	353190.5	3792760	1.08E-06	6.5YrCancerDerived_Inh
1375	ALL	353215.5	3792760	1.13E-06	6.5YrCancerDerived_Inh
1376	ALL	353240.5	3792760	1.18E-06	6.5YrCancerDerived_Inh
1377	ALL	353265.5	3792760	1.24E-06	6.5YrCancerDerived_Inh
1378	ALL	353290.5	3792760	1.30E-06	6.5YrCancerDerived_Inh
1379	ALL	353315.5	3792760	1.36E-06	6.5YrCancerDerived_Inh
1380	ALL	353340.5	3792760	1.43E-06	6.5YrCancerDerived_Inh
1381	ALL	353365.5	3792760	1.51E-06	6.5YrCancerDerived_Inh
1382	ALL	353390.5	3792760	1.60E-06	6.5YrCancerDerived_Inh
1383	ALL	353415.5	3792760	1.69E-06	6.5YrCancerDerived_Inh
1384	ALL	353440.5	3792760	1.81E-06	6.5YrCancerDerived_Inh
1385	ALL	353465.5	3792760	1.95E-06	6.5YrCancerDerived_Inh
1386	ALL	353490.5	3792760	2.10E-06	6.5YrCancerDerived_Inh
1387	ALL	353515.5	3792760	2.28E-06	6.5YrCancerDerived_Inh
1388	ALL	353540.5	3792760	2.50E-06	6.5YrCancerDerived_Inh
1389	ALL	353565.5	3792760	2.76E-06	6.5YrCancerDerived_Inh
1390	ALL	353590.5	3792760	3.10E-06	6.5YrCancerDerived_Inh
1391	ALL	353615.5	3792760	3.55E-06	6.5YrCancerDerived_Inh
1392	ALL	353640.5	3792760	4.17E-06	6.5YrCancerDerived_Inh
1393	ALL	353665.5	3792760	5.08E-06	6.5YrCancerDerived_Inh
1394	ALL	353690.5	3792760	6.53E-06	6.5YrCancerDerived_Inh
1395	ALL	353715.5	3792760	9.08E-06	6.5YrCancerDerived_Inh
1396	ALL	353015.5	3792785	8.56E-07	6.5YrCancerDerived_Inh
1397	ALL	353040.5	3792785	8.87E-07	6.5YrCancerDerived_Inh
1398	ALL	353065.5	3792785	9.17E-07	6.5YrCancerDerived_Inh
1399	ALL	353090.5	3792785	9.54E-07	6.5YrCancerDerived_Inh
1400	ALL	353115.5	3792785	9.92E-07	6.5YrCancerDerived_Inh
1401	ALL	353140.5	3792785	1.03E-06	6.5YrCancerDerived_Inh
1402	ALL	353165.5	3792785	1.07E-06	6.5YrCancerDerived_Inh
1403	ALL	353190.5	3792785	1.12E-06	6.5YrCancerDerived_Inh
1404	ALL	353215.5	3792785	1.16E-06	6.5YrCancerDerived_Inh
1405	ALL	353240.5	3792785	1.22E-06	6.5YrCancerDerived_Inh
1406	ALL	353265.5	3792785	1.28E-06	6.5YrCancerDerived_Inh
1407	ALL	353290.5	3792785	1.34E-06	6.5YrCancerDerived_Inh
1408	ALL	353315.5	3792785	1.41E-06	6.5YrCancerDerived_Inh

1409	ALL	353340.5	3792785	1.48E-06	6.5YrCancerDerived_Inh
1410	ALL	353365.5	3792785	1.56E-06	6.5YrCancerDerived_Inh
1411	ALL	353390.5	3792785	1.66E-06	6.5YrCancerDerived_Inh
1412	ALL	353415.5	3792785	1.76E-06	6.5YrCancerDerived_Inh
1413	ALL	353440.5	3792785	1.88E-06	6.5YrCancerDerived_Inh
1414	ALL	353465.5	3792785	2.03E-06	6.5YrCancerDerived_Inh
1415	ALL	353490.5	3792785	2.19E-06	6.5YrCancerDerived_Inh
1416	ALL	353515.5	3792785	2.38E-06	6.5YrCancerDerived_Inh
1417	ALL	353540.5	3792785	2.61E-06	6.5YrCancerDerived_Inh
1418	ALL	353565.5	3792785	2.89E-06	6.5YrCancerDerived_Inh
1419	ALL	353590.5	3792785	3.25E-06	6.5YrCancerDerived_Inh
1420	ALL	353615.5	3792785	3.72E-06	6.5YrCancerDerived_Inh
1421	ALL	353640.5	3792785	4.36E-06	6.5YrCancerDerived_Inh
1422	ALL	353665.5	3792785	5.29E-06	6.5YrCancerDerived_Inh
1423	ALL	353690.5	3792785	6.72E-06	6.5YrCancerDerived_Inh
1424	ALL	353715.5	3792785	9.23E-06	6.5YrCancerDerived_Inh
1425	ALL	353015.5	3792810	8.76E-07	6.5YrCancerDerived_Inh
1426	ALL	353040.5	3792810	9.08E-07	6.5YrCancerDerived_Inh
1427	ALL	353065.5	3792810	9.39E-07	6.5YrCancerDerived_Inh
1428	ALL	353090.5	3792810	9.77E-07	6.5YrCancerDerived_Inh
1429	ALL	353115.5	3792810	1.02E-06	6.5YrCancerDerived_Inh
1430	ALL	353140.5	3792810	1.06E-06	6.5YrCancerDerived_Inh
1431	ALL	353165.5	3792810	1.10E-06	6.5YrCancerDerived_Inh
1432	ALL	353190.5	3792810	1.15E-06	6.5YrCancerDerived_Inh
1433	ALL	353215.5	3792810	1.19E-06	6.5YrCancerDerived_Inh
1434	ALL	353240.5	3792810	1.25E-06	6.5YrCancerDerived_Inh
1435	ALL	353265.5	3792810	1.31E-06	6.5YrCancerDerived_Inh
1436	ALL	353290.5	3792810	1.38E-06	6.5YrCancerDerived_Inh
1437	ALL	353315.5	3792810	1.45E-06	6.5YrCancerDerived_Inh
1438	ALL	353340.5	3792810	1.53E-06	6.5YrCancerDerived_Inh
1439	ALL	353365.5	3792810	1.62E-06	6.5YrCancerDerived_Inh
1440	ALL	353390.5	3792810	1.72E-06	6.5YrCancerDerived_Inh
1441	ALL	353415.5	3792810	1.83E-06	6.5YrCancerDerived_Inh
1442	ALL	353440.5	3792810	1.95E-06	6.5YrCancerDerived_Inh
1443	ALL	353465.5	3792810	2.10E-06	6.5YrCancerDerived_Inh
1444	ALL	353490.5	3792810	2.28E-06	6.5YrCancerDerived_Inh
1445	ALL	353515.5	3792810	2.48E-06	6.5YrCancerDerived_Inh
1446	ALL	353540.5	3792810	2.72E-06	6.5YrCancerDerived_Inh
1447	ALL	353565.5	3792810	3.02E-06	6.5YrCancerDerived_Inh
1448	ALL	353590.5	3792810	3.39E-06	6.5YrCancerDerived_Inh
1449	ALL	353615.5	3792810	3.87E-06	6.5YrCancerDerived_Inh
1450	ALL	353640.5	3792810	4.52E-06	6.5YrCancerDerived_Inh
1451	ALL	353665.5	3792810	5.45E-06	6.5YrCancerDerived_Inh
1452	ALL	353690.5	3792810	6.88E-06	6.5YrCancerDerived_Inh
1453	ALL	353715.5	3792810	9.38E-06	6.5YrCancerDerived_Inh
1454	ALL	353015.5	3792835	8.97E-07	6.5YrCancerDerived_Inh
1455	ALL	353040.5	3792835	9.29E-07	6.5YrCancerDerived_Inh

1456	ALL	353065.5	3792835	9.61E-07	6.5YrCancerDerived_Inh
1457	ALL	353090.5	3792835	1.00E-06	6.5YrCancerDerived_Inh
1458	ALL	353115.5	3792835	1.04E-06	6.5YrCancerDerived_Inh
1459	ALL	353140.5	3792835	1.09E-06	6.5YrCancerDerived_Inh
1460	ALL	353165.5	3792835	1.13E-06	6.5YrCancerDerived_Inh
1461	ALL	353190.5	3792835	1.18E-06	6.5YrCancerDerived_Inh
1462	ALL	353215.5	3792835	1.24E-06	6.5YrCancerDerived_Inh
1463	ALL	353240.5	3792835	1.28E-06	6.5YrCancerDerived_Inh
1464	ALL	353265.5	3792835	1.35E-06	6.5YrCancerDerived_Inh
1465	ALL	353290.5	3792835	1.42E-06	6.5YrCancerDerived_Inh
1466	ALL	353315.5	3792835	1.50E-06	6.5YrCancerDerived_Inh
1467	ALL	353340.5	3792835	1.58E-06	6.5YrCancerDerived_Inh
1468	ALL	353365.5	3792835	1.67E-06	6.5YrCancerDerived_Inh
1469	ALL	353390.5	3792835	1.78E-06	6.5YrCancerDerived_Inh
1470	ALL	353415.5	3792835	1.89E-06	6.5YrCancerDerived_Inh
1471	ALL	353440.5	3792835	2.03E-06	6.5YrCancerDerived_Inh
1472	ALL	353465.5	3792835	2.18E-06	6.5YrCancerDerived_Inh
1473	ALL	353490.5	3792835	2.36E-06	6.5YrCancerDerived_Inh
1474	ALL	353515.5	3792835	2.58E-06	6.5YrCancerDerived_Inh
1475	ALL	353540.5	3792835	2.83E-06	6.5YrCancerDerived_Inh
1476	ALL	353565.5	3792835	3.13E-06	6.5YrCancerDerived_Inh
1477	ALL	353590.5	3792835	3.52E-06	6.5YrCancerDerived_Inh
1478	ALL	353615.5	3792835	4.01E-06	6.5YrCancerDerived_Inh
1479	ALL	353640.5	3792835	4.67E-06	6.5YrCancerDerived_Inh
1480	ALL	353665.5	3792835	5.60E-06	6.5YrCancerDerived_Inh
1481	ALL	353690.5	3792835	7.02E-06	6.5YrCancerDerived_Inh
1482	ALL	353715.5	3792835	9.50E-06	6.5YrCancerDerived_Inh
1483	ALL	353015.5	3792860	9.15E-07	6.5YrCancerDerived_Inh
1484	ALL	353040.5	3792860	9.50E-07	6.5YrCancerDerived_Inh
1485	ALL	353065.5	3792860	9.83E-07	6.5YrCancerDerived_Inh
1486	ALL	353090.5	3792860	1.02E-06	6.5YrCancerDerived_Inh
1487	ALL	353115.5	3792860	1.07E-06	6.5YrCancerDerived_Inh
1488	ALL	353140.5	3792860	1.12E-06	6.5YrCancerDerived_Inh
1489	ALL	353165.5	3792860	1.17E-06	6.5YrCancerDerived_Inh
1490	ALL	353190.5	3792860	1.22E-06	6.5YrCancerDerived_Inh
1491	ALL	353215.5	3792860	1.27E-06	6.5YrCancerDerived_Inh
1492	ALL	353240.5	3792860	1.33E-06	6.5YrCancerDerived_Inh
1493	ALL	353265.5	3792860	1.38E-06	6.5YrCancerDerived_Inh
1494	ALL	353290.5	3792860	1.46E-06	6.5YrCancerDerived_Inh
1495	ALL	353315.5	3792860	1.55E-06	6.5YrCancerDerived_Inh
1496	ALL	353340.5	3792860	1.63E-06	6.5YrCancerDerived_Inh
1497	ALL	353365.5	3792860	1.73E-06	6.5YrCancerDerived_Inh
1498	ALL	353390.5	3792860	1.84E-06	6.5YrCancerDerived_Inh
1499	ALL	353415.5	3792860	1.96E-06	6.5YrCancerDerived_Inh
1500	ALL	353440.5	3792860	2.10E-06	6.5YrCancerDerived_Inh
1501	ALL	353465.5	3792860	2.26E-06	6.5YrCancerDerived_Inh
1502	ALL	353490.5	3792860	2.44E-06	6.5YrCancerDerived_Inh

1503	ALL	353515.5	3792860	2.66E-06	6.5YrCancerDerived_Inh
1504	ALL	353540.5	3792860	2.93E-06	6.5YrCancerDerived_Inh
1505	ALL	353565.5	3792860	3.24E-06	6.5YrCancerDerived_Inh
1506	ALL	353590.5	3792860	3.64E-06	6.5YrCancerDerived_Inh
1507	ALL	353615.5	3792860	4.14E-06	6.5YrCancerDerived_Inh
1508	ALL	353640.5	3792860	4.81E-06	6.5YrCancerDerived_Inh
1509	ALL	353665.5	3792860	5.74E-06	6.5YrCancerDerived_Inh
1510	ALL	353690.5	3792860	7.15E-06	6.5YrCancerDerived_Inh
1511	ALL	353715.5	3792860	9.61E-06	6.5YrCancerDerived_Inh
1512	ALL	353015.5	3792885	9.36E-07	6.5YrCancerDerived_Inh
1513	ALL	353040.5	3792885	9.70E-07	6.5YrCancerDerived_Inh
1514	ALL	353065.5	3792885	1.01E-06	6.5YrCancerDerived_Inh
1515	ALL	353090.5	3792885	1.05E-06	6.5YrCancerDerived_Inh
1516	ALL	353115.5	3792885	1.09E-06	6.5YrCancerDerived_Inh
1517	ALL	353140.5	3792885	1.14E-06	6.5YrCancerDerived_Inh
1518	ALL	353165.5	3792885	1.19E-06	6.5YrCancerDerived_Inh
1519	ALL	353190.5	3792885	1.25E-06	6.5YrCancerDerived_Inh
1520	ALL	353215.5	3792885	1.31E-06	6.5YrCancerDerived_Inh
1521	ALL	353240.5	3792885	1.37E-06	6.5YrCancerDerived_Inh
1522	ALL	353265.5	3792885	1.44E-06	6.5YrCancerDerived_Inh
1523	ALL	353290.5	3792885	1.50E-06	6.5YrCancerDerived_Inh
1524	ALL	353315.5	3792885	1.58E-06	6.5YrCancerDerived_Inh
1525	ALL	353340.5	3792885	1.68E-06	6.5YrCancerDerived_Inh
1526	ALL	353365.5	3792885	1.78E-06	6.5YrCancerDerived_Inh
1527	ALL	353390.5	3792885	1.90E-06	6.5YrCancerDerived_Inh
1528	ALL	353415.5	3792885	2.02E-06	6.5YrCancerDerived_Inh
1529	ALL	353440.5	3792885	2.17E-06	6.5YrCancerDerived_Inh
1530	ALL	353465.5	3792885	2.33E-06	6.5YrCancerDerived_Inh
1531	ALL	353490.5	3792885	2.52E-06	6.5YrCancerDerived_Inh
1532	ALL	353515.5	3792885	2.75E-06	6.5YrCancerDerived_Inh
1533	ALL	353540.5	3792885	3.02E-06	6.5YrCancerDerived_Inh
1534	ALL	353565.5	3792885	3.35E-06	6.5YrCancerDerived_Inh
1535	ALL	353590.5	3792885	3.75E-06	6.5YrCancerDerived_Inh
1536	ALL	353615.5	3792885	4.25E-06	6.5YrCancerDerived_Inh
1537	ALL	353640.5	3792885	4.92E-06	6.5YrCancerDerived_Inh
1538	ALL	353665.5	3792885	5.86E-06	6.5YrCancerDerived_Inh
1539	ALL	353690.5	3792885	7.28E-06	6.5YrCancerDerived_Inh
1540	ALL	353715.5	3792885	9.73E-06	6.5YrCancerDerived_Inh
1541	ALL	353015.5	3792910	9.55E-07	6.5YrCancerDerived_Inh
1542	ALL	353040.5	3792910	9.91E-07	6.5YrCancerDerived_Inh
1543	ALL	353065.5	3792910	1.03E-06	6.5YrCancerDerived_Inh
1544	ALL	353090.5	3792910	1.07E-06	6.5YrCancerDerived_Inh
1545	ALL	353115.5	3792910	1.12E-06	6.5YrCancerDerived_Inh
1546	ALL	353140.5	3792910	1.17E-06	6.5YrCancerDerived_Inh
1547	ALL	353165.5	3792910	1.22E-06	6.5YrCancerDerived_Inh
1548	ALL	353190.5	3792910	1.27E-06	6.5YrCancerDerived_Inh
1549	ALL	353215.5	3792910	1.34E-06	6.5YrCancerDerived_Inh

1550	ALL	353240.5	3792910	1.40E-06	6.5YrCancerDerived_Inh
1551	ALL	353265.5	3792910	1.48E-06	6.5YrCancerDerived_Inh
1552	ALL	353290.5	3792910	1.55E-06	6.5YrCancerDerived_Inh
1553	ALL	353315.5	3792910	1.63E-06	6.5YrCancerDerived_Inh
1554	ALL	353340.5	3792910	1.72E-06	6.5YrCancerDerived_Inh
1555	ALL	353365.5	3792910	1.84E-06	6.5YrCancerDerived_Inh
1556	ALL	353390.5	3792910	1.95E-06	6.5YrCancerDerived_Inh
1557	ALL	353415.5	3792910	2.09E-06	6.5YrCancerDerived_Inh
1558	ALL	353440.5	3792910	2.24E-06	6.5YrCancerDerived_Inh
1559	ALL	353465.5	3792910	2.41E-06	6.5YrCancerDerived_Inh
1560	ALL	353490.5	3792910	2.60E-06	6.5YrCancerDerived_Inh
1561	ALL	353515.5	3792910	2.83E-06	6.5YrCancerDerived_Inh
1562	ALL	353540.5	3792910	3.11E-06	6.5YrCancerDerived_Inh
1563	ALL	353565.5	3792910	3.45E-06	6.5YrCancerDerived_Inh
1564	ALL	353590.5	3792910	3.85E-06	6.5YrCancerDerived_Inh
1565	ALL	353615.5	3792910	4.36E-06	6.5YrCancerDerived_Inh
1566	ALL	353640.5	3792910	5.03E-06	6.5YrCancerDerived_Inh
1567	ALL	353665.5	3792910	5.95E-06	6.5YrCancerDerived_Inh
1568	ALL	353690.5	3792910	7.38E-06	6.5YrCancerDerived_Inh
1569	ALL	353715.5	3792910	9.82E-06	6.5YrCancerDerived_Inh
1570	ALL	353015.5	3792935	9.74E-07	6.5YrCancerDerived_Inh
1571	ALL	353040.5	3792935	1.01E-06	6.5YrCancerDerived_Inh
1572	ALL	353065.5	3792935	1.05E-06	6.5YrCancerDerived_Inh
1573	ALL	353090.5	3792935	1.09E-06	6.5YrCancerDerived_Inh
1574	ALL	353115.5	3792935	1.14E-06	6.5YrCancerDerived_Inh
1575	ALL	353140.5	3792935	1.19E-06	6.5YrCancerDerived_Inh
1576	ALL	353165.5	3792935	1.25E-06	6.5YrCancerDerived_Inh
1577	ALL	353190.5	3792935	1.30E-06	6.5YrCancerDerived_Inh
1578	ALL	353215.5	3792935	1.37E-06	6.5YrCancerDerived_Inh
1579	ALL	353240.5	3792935	1.44E-06	6.5YrCancerDerived_Inh
1580	ALL	353265.5	3792935	1.51E-06	6.5YrCancerDerived_Inh
1581	ALL	353290.5	3792935	1.60E-06	6.5YrCancerDerived_Inh
1582	ALL	353315.5	3792935	1.68E-06	6.5YrCancerDerived_Inh
1583	ALL	353340.5	3792935	1.77E-06	6.5YrCancerDerived_Inh
1584	ALL	353365.5	3792935	1.88E-06	6.5YrCancerDerived_Inh
1585	ALL	353390.5	3792935	2.01E-06	6.5YrCancerDerived_Inh
1586	ALL	353415.5	3792935	2.15E-06	6.5YrCancerDerived_Inh
1587	ALL	353440.5	3792935	2.30E-06	6.5YrCancerDerived_Inh
1588	ALL	353465.5	3792935	2.48E-06	6.5YrCancerDerived_Inh
1589	ALL	353490.5	3792935	2.68E-06	6.5YrCancerDerived_Inh
1590	ALL	353515.5	3792935	2.91E-06	6.5YrCancerDerived_Inh
1591	ALL	353540.5	3792935	3.19E-06	6.5YrCancerDerived_Inh
1592	ALL	353565.5	3792935	3.53E-06	6.5YrCancerDerived_Inh
1593	ALL	353590.5	3792935	3.95E-06	6.5YrCancerDerived_Inh
1594	ALL	353615.5	3792935	4.46E-06	6.5YrCancerDerived_Inh
1595	ALL	353640.5	3792935	5.12E-06	6.5YrCancerDerived_Inh
1596	ALL	353665.5	3792935	6.05E-06	6.5YrCancerDerived_Inh

1597	ALL	353690.5	3792935	7.46E-06	6.5YrCancerDerived_Inh
1598	ALL	353715.5	3792935	9.90E-06	6.5YrCancerDerived_Inh
1599	ALL	353015.5	3792960	9.91E-07	6.5YrCancerDerived_Inh
1600	ALL	353040.5	3792960	1.03E-06	6.5YrCancerDerived_Inh
1601	ALL	353065.5	3792960	1.07E-06	6.5YrCancerDerived_Inh
1602	ALL	353090.5	3792960	1.12E-06	6.5YrCancerDerived_Inh
1603	ALL	353115.5	3792960	1.17E-06	6.5YrCancerDerived_Inh
1604	ALL	353140.5	3792960	1.22E-06	6.5YrCancerDerived_Inh
1605	ALL	353165.5	3792960	1.27E-06	6.5YrCancerDerived_Inh
1606	ALL	353190.5	3792960	1.33E-06	6.5YrCancerDerived_Inh
1607	ALL	353215.5	3792960	1.40E-06	6.5YrCancerDerived_Inh
1608	ALL	353240.5	3792960	1.47E-06	6.5YrCancerDerived_Inh
1609	ALL	353265.5	3792960	1.55E-06	6.5YrCancerDerived_Inh
1610	ALL	353290.5	3792960	1.64E-06	6.5YrCancerDerived_Inh
1611	ALL	353315.5	3792960	1.73E-06	6.5YrCancerDerived_Inh
1612	ALL	353340.5	3792960	1.82E-06	6.5YrCancerDerived_Inh
1613	ALL	353365.5	3792960	1.93E-06	6.5YrCancerDerived_Inh
1614	ALL	353390.5	3792960	2.06E-06	6.5YrCancerDerived_Inh
1615	ALL	353415.5	3792960	2.21E-06	6.5YrCancerDerived_Inh
1616	ALL	353440.5	3792960	2.37E-06	6.5YrCancerDerived_Inh
1617	ALL	353465.5	3792960	2.55E-06	6.5YrCancerDerived_Inh
1618	ALL	353490.5	3792960	2.75E-06	6.5YrCancerDerived_Inh
1619	ALL	353515.5	3792960	3.00E-06	6.5YrCancerDerived_Inh
1620	ALL	353540.5	3792960	3.28E-06	6.5YrCancerDerived_Inh
1621	ALL	353565.5	3792960	3.62E-06	6.5YrCancerDerived_Inh
1622	ALL	353590.5	3792960	4.04E-06	6.5YrCancerDerived_Inh
1623	ALL	353615.5	3792960	4.56E-06	6.5YrCancerDerived_Inh
1624	ALL	353640.5	3792960	5.22E-06	6.5YrCancerDerived_Inh
1625	ALL	353665.5	3792960	6.15E-06	6.5YrCancerDerived_Inh
1626	ALL	353690.5	3792960	7.55E-06	6.5YrCancerDerived_Inh
1627	ALL	353715.5	3792960	9.97E-06	6.5YrCancerDerived_Inh
1628	ALL	353015.5	3792985	1.01E-06	6.5YrCancerDerived_Inh
1629	ALL	353040.5	3792985	1.05E-06	6.5YrCancerDerived_Inh
1630	ALL	353065.5	3792985	1.09E-06	6.5YrCancerDerived_Inh
1631	ALL	353090.5	3792985	1.14E-06	6.5YrCancerDerived_Inh
1632	ALL	353115.5	3792985	1.19E-06	6.5YrCancerDerived_Inh
1633	ALL	353140.5	3792985	1.24E-06	6.5YrCancerDerived_Inh
1634	ALL	353165.5	3792985	1.30E-06	6.5YrCancerDerived_Inh
1635	ALL	353190.5	3792985	1.36E-06	6.5YrCancerDerived_Inh
1636	ALL	353215.5	3792985	1.43E-06	6.5YrCancerDerived_Inh
1637	ALL	353240.5	3792985	1.50E-06	6.5YrCancerDerived_Inh
1638	ALL	353265.5	3792985	1.59E-06	6.5YrCancerDerived_Inh
1639	ALL	353290.5	3792985	1.68E-06	6.5YrCancerDerived_Inh
1640	ALL	353315.5	3792985	1.77E-06	6.5YrCancerDerived_Inh
1641	ALL	353340.5	3792985	1.88E-06	6.5YrCancerDerived_Inh
1642	ALL	353365.5	3792985	1.98E-06	6.5YrCancerDerived_Inh
1643	ALL	353390.5	3792985	2.10E-06	6.5YrCancerDerived_Inh

1644	ALL	353415.5	3792985	2.26E-06	6.5YrCancerDerived_Inh
1645	ALL	353440.5	3792985	2.43E-06	6.5YrCancerDerived_Inh
1646	ALL	353465.5	3792985	2.62E-06	6.5YrCancerDerived_Inh
1647	ALL	353490.5	3792985	2.83E-06	6.5YrCancerDerived_Inh
1648	ALL	353515.5	3792985	3.08E-06	6.5YrCancerDerived_Inh
1649	ALL	353540.5	3792985	3.37E-06	6.5YrCancerDerived_Inh
1650	ALL	353565.5	3792985	3.71E-06	6.5YrCancerDerived_Inh
1651	ALL	353590.5	3792985	4.13E-06	6.5YrCancerDerived_Inh
1652	ALL	353615.5	3792985	4.66E-06	6.5YrCancerDerived_Inh
1653	ALL	353640.5	3792985	5.33E-06	6.5YrCancerDerived_Inh
1654	ALL	353665.5	3792985	6.26E-06	6.5YrCancerDerived_Inh
1655	ALL	353690.5	3792985	7.66E-06	6.5YrCancerDerived_Inh
1656	ALL	353715.5	3792985	1.01E-05	6.5YrCancerDerived_Inh
1657	ALL	353015.5	3793010	1.03E-06	6.5YrCancerDerived_Inh
1658	ALL	353040.5	3793010	1.07E-06	6.5YrCancerDerived_Inh
1659	ALL	353065.5	3793010	1.12E-06	6.5YrCancerDerived_Inh
1660	ALL	353090.5	3793010	1.16E-06	6.5YrCancerDerived_Inh
1661	ALL	353115.5	3793010	1.21E-06	6.5YrCancerDerived_Inh
1662	ALL	353140.5	3793010	1.27E-06	6.5YrCancerDerived_Inh
1663	ALL	353165.5	3793010	1.33E-06	6.5YrCancerDerived_Inh
1664	ALL	353190.5	3793010	1.39E-06	6.5YrCancerDerived_Inh
1665	ALL	353215.5	3793010	1.46E-06	6.5YrCancerDerived_Inh
1666	ALL	353240.5	3793010	1.54E-06	6.5YrCancerDerived_Inh
1667	ALL	353265.5	3793010	1.63E-06	6.5YrCancerDerived_Inh
1668	ALL	353290.5	3793010	1.72E-06	6.5YrCancerDerived_Inh
1669	ALL	353315.5	3793010	1.82E-06	6.5YrCancerDerived_Inh
1670	ALL	353340.5	3793010	1.93E-06	6.5YrCancerDerived_Inh
1671	ALL	353365.5	3793010	2.05E-06	6.5YrCancerDerived_Inh
1672	ALL	353390.5	3793010	2.16E-06	6.5YrCancerDerived_Inh
1673	ALL	353415.5	3793010	2.30E-06	6.5YrCancerDerived_Inh
1674	ALL	353440.5	3793010	2.49E-06	6.5YrCancerDerived_Inh
1675	ALL	353465.5	3793010	2.69E-06	6.5YrCancerDerived_Inh
1676	ALL	353490.5	3793010	2.92E-06	6.5YrCancerDerived_Inh
1677	ALL	353515.5	3793010	3.17E-06	6.5YrCancerDerived_Inh
1678	ALL	353540.5	3793010	3.45E-06	6.5YrCancerDerived_Inh
1679	ALL	353565.5	3793010	3.79E-06	6.5YrCancerDerived_Inh
1680	ALL	353590.5	3793010	4.22E-06	6.5YrCancerDerived_Inh
1681	ALL	353615.5	3793010	4.75E-06	6.5YrCancerDerived_Inh
1682	ALL	353640.5	3793010	5.43E-06	6.5YrCancerDerived_Inh
1683	ALL	353665.5	3793010	6.39E-06	6.5YrCancerDerived_Inh
1684	ALL	353690.5	3793010	7.78E-06	6.5YrCancerDerived_Inh
1685	ALL	353715.5	3793010	1.01E-05	6.5YrCancerDerived_Inh
1686	ALL	353015.5	3793035	1.05E-06	6.5YrCancerDerived_Inh
1687	ALL	353040.5	3793035	1.09E-06	6.5YrCancerDerived_Inh
1688	ALL	353065.5	3793035	1.14E-06	6.5YrCancerDerived_Inh
1689	ALL	353090.5	3793035	1.19E-06	6.5YrCancerDerived_Inh
1690	ALL	353115.5	3793035	1.24E-06	6.5YrCancerDerived_Inh

1691	ALL	353140.5	3793035	1.29E-06	6.5YrCancerDerived_Inh
1692	ALL	353165.5	3793035	1.36E-06	6.5YrCancerDerived_Inh
1693	ALL	353190.5	3793035	1.43E-06	6.5YrCancerDerived_Inh
1694	ALL	353215.5	3793035	1.50E-06	6.5YrCancerDerived_Inh
1695	ALL	353240.5	3793035	1.58E-06	6.5YrCancerDerived_Inh
1696	ALL	353265.5	3793035	1.67E-06	6.5YrCancerDerived_Inh
1697	ALL	353290.5	3793035	1.76E-06	6.5YrCancerDerived_Inh
1698	ALL	353315.5	3793035	1.87E-06	6.5YrCancerDerived_Inh
1699	ALL	353340.5	3793035	1.98E-06	6.5YrCancerDerived_Inh
1700	ALL	353365.5	3793035	2.10E-06	6.5YrCancerDerived_Inh
1701	ALL	353390.5	3793035	2.24E-06	6.5YrCancerDerived_Inh
1702	ALL	353415.5	3793035	2.37E-06	6.5YrCancerDerived_Inh
1703	ALL	353440.5	3793035	2.52E-06	6.5YrCancerDerived_Inh
1704	ALL	353465.5	3793035	2.74E-06	6.5YrCancerDerived_Inh
1705	ALL	353490.5	3793035	2.99E-06	6.5YrCancerDerived_Inh
1706	ALL	353515.5	3793035	3.25E-06	6.5YrCancerDerived_Inh
1707	ALL	353540.5	3793035	3.54E-06	6.5YrCancerDerived_Inh
1708	ALL	353565.5	3793035	3.87E-06	6.5YrCancerDerived_Inh
1709	ALL	353590.5	3793035	4.31E-06	6.5YrCancerDerived_Inh
1710	ALL	353615.5	3793035	4.85E-06	6.5YrCancerDerived_Inh
1711	ALL	353640.5	3793035	5.54E-06	6.5YrCancerDerived_Inh
1712	ALL	353665.5	3793035	6.47E-06	6.5YrCancerDerived_Inh
1713	ALL	353690.5	3793035	7.85E-06	6.5YrCancerDerived_Inh
1714	ALL	353715.5	3793035	1.02E-05	6.5YrCancerDerived_Inh
1715	ALL	353015.5	3793060	1.07E-06	6.5YrCancerDerived_Inh
1716	ALL	353040.5	3793060	1.11E-06	6.5YrCancerDerived_Inh
1717	ALL	353065.5	3793060	1.16E-06	6.5YrCancerDerived_Inh
1718	ALL	353090.5	3793060	1.21E-06	6.5YrCancerDerived_Inh
1719	ALL	353115.5	3793060	1.26E-06	6.5YrCancerDerived_Inh
1720	ALL	353140.5	3793060	1.32E-06	6.5YrCancerDerived_Inh
1721	ALL	353165.5	3793060	1.39E-06	6.5YrCancerDerived_Inh
1722	ALL	353190.5	3793060	1.45E-06	6.5YrCancerDerived_Inh
1723	ALL	353215.5	3793060	1.53E-06	6.5YrCancerDerived_Inh
1724	ALL	353240.5	3793060	1.61E-06	6.5YrCancerDerived_Inh
1725	ALL	353265.5	3793060	1.71E-06	6.5YrCancerDerived_Inh
1726	ALL	353290.5	3793060	1.81E-06	6.5YrCancerDerived_Inh
1727	ALL	353315.5	3793060	1.92E-06	6.5YrCancerDerived_Inh
1728	ALL	353340.5	3793060	2.03E-06	6.5YrCancerDerived_Inh
1729	ALL	353365.5	3793060	2.16E-06	6.5YrCancerDerived_Inh
1730	ALL	353390.5	3793060	2.31E-06	6.5YrCancerDerived_Inh
1731	ALL	353415.5	3793060	2.45E-06	6.5YrCancerDerived_Inh
1732	ALL	353440.5	3793060	2.60E-06	6.5YrCancerDerived_Inh
1733	ALL	353465.5	3793060	2.78E-06	6.5YrCancerDerived_Inh
1734	ALL	353490.5	3793060	3.02E-06	6.5YrCancerDerived_Inh
1735	ALL	353515.5	3793060	3.32E-06	6.5YrCancerDerived_Inh
1736	ALL	353540.5	3793060	3.62E-06	6.5YrCancerDerived_Inh
1737	ALL	353565.5	3793060	3.97E-06	6.5YrCancerDerived_Inh

1738	ALL	353590.5	3793060	4.41E-06	6.5YrCancerDerived_Inh
1739	ALL	353615.5	3793060	4.95E-06	6.5YrCancerDerived_Inh
1740	ALL	353640.5	3793060	5.65E-06	6.5YrCancerDerived_Inh
1741	ALL	353665.5	3793060	6.59E-06	6.5YrCancerDerived_Inh
1742	ALL	353690.5	3793060	8.00E-06	6.5YrCancerDerived_Inh
1743	ALL	353715.5	3793060	1.04E-05	6.5YrCancerDerived_Inh
1744	ALL	353740.5	3793060	1.51E-05	6.5YrCancerDerived_Inh
1745	ALL	353015.5	3793085	1.09E-06	6.5YrCancerDerived_Inh
1746	ALL	353040.5	3793085	1.13E-06	6.5YrCancerDerived_Inh
1747	ALL	353065.5	3793085	1.18E-06	6.5YrCancerDerived_Inh
1748	ALL	353090.5	3793085	1.23E-06	6.5YrCancerDerived_Inh
1749	ALL	353115.5	3793085	1.28E-06	6.5YrCancerDerived_Inh
1750	ALL	353140.5	3793085	1.34E-06	6.5YrCancerDerived_Inh
1751	ALL	353165.5	3793085	1.41E-06	6.5YrCancerDerived_Inh
1752	ALL	353190.5	3793085	1.48E-06	6.5YrCancerDerived_Inh
1753	ALL	353215.5	3793085	1.56E-06	6.5YrCancerDerived_Inh
1754	ALL	353240.5	3793085	1.65E-06	6.5YrCancerDerived_Inh
1755	ALL	353265.5	3793085	1.74E-06	6.5YrCancerDerived_Inh
1756	ALL	353290.5	3793085	1.85E-06	6.5YrCancerDerived_Inh
1757	ALL	353315.5	3793085	1.96E-06	6.5YrCancerDerived_Inh
1758	ALL	353340.5	3793085	2.07E-06	6.5YrCancerDerived_Inh
1759	ALL	353365.5	3793085	2.20E-06	6.5YrCancerDerived_Inh
1760	ALL	353390.5	3793085	2.37E-06	6.5YrCancerDerived_Inh
1761	ALL	353415.5	3793085	2.53E-06	6.5YrCancerDerived_Inh
1762	ALL	353440.5	3793085	2.69E-06	6.5YrCancerDerived_Inh
1763	ALL	353465.5	3793085	2.86E-06	6.5YrCancerDerived_Inh
1764	ALL	353490.5	3793085	3.08E-06	6.5YrCancerDerived_Inh
1765	ALL	353515.5	3793085	3.36E-06	6.5YrCancerDerived_Inh
1766	ALL	353540.5	3793085	3.70E-06	6.5YrCancerDerived_Inh
1767	ALL	353565.5	3793085	4.06E-06	6.5YrCancerDerived_Inh
1768	ALL	353590.5	3793085	4.51E-06	6.5YrCancerDerived_Inh
1769	ALL	353615.5	3793085	5.06E-06	6.5YrCancerDerived_Inh
1770	ALL	353640.5	3793085	5.76E-06	6.5YrCancerDerived_Inh
1771	ALL	353665.5	3793085	6.72E-06	6.5YrCancerDerived_Inh
1772	ALL	353690.5	3793085	8.13E-06	6.5YrCancerDerived_Inh
1773	ALL	353715.5	3793085	1.05E-05	6.5YrCancerDerived_Inh
1774	ALL	353740.5	3793085	1.51E-05	6.5YrCancerDerived_Inh
1775	ALL	353015.5	3793110	1.10E-06	6.5YrCancerDerived_Inh
1776	ALL	353040.5	3793110	1.15E-06	6.5YrCancerDerived_Inh
1777	ALL	353065.5	3793110	1.20E-06	6.5YrCancerDerived_Inh
1778	ALL	353090.5	3793110	1.25E-06	6.5YrCancerDerived_Inh
1779	ALL	353115.5	3793110	1.30E-06	6.5YrCancerDerived_Inh
1780	ALL	353140.5	3793110	1.37E-06	6.5YrCancerDerived_Inh
1781	ALL	353165.5	3793110	1.43E-06	6.5YrCancerDerived_Inh
1782	ALL	353190.5	3793110	1.50E-06	6.5YrCancerDerived_Inh
1783	ALL	353215.5	3793110	1.58E-06	6.5YrCancerDerived_Inh
1784	ALL	353240.5	3793110	1.67E-06	6.5YrCancerDerived_Inh

1785	ALL	353265.5	3793110	1.77E-06	6.5YrCancerDerived_Inh
1786	ALL	353290.5	3793110	1.88E-06	6.5YrCancerDerived_Inh
1787	ALL	353315.5	3793110	2.00E-06	6.5YrCancerDerived_Inh
1788	ALL	353340.5	3793110	2.12E-06	6.5YrCancerDerived_Inh
1789	ALL	353365.5	3793110	2.25E-06	6.5YrCancerDerived_Inh
1790	ALL	353390.5	3793110	2.41E-06	6.5YrCancerDerived_Inh
1791	ALL	353415.5	3793110	2.57E-06	6.5YrCancerDerived_Inh
1792	ALL	353440.5	3793110	2.76E-06	6.5YrCancerDerived_Inh
1793	ALL	353465.5	3793110	2.96E-06	6.5YrCancerDerived_Inh
1794	ALL	353490.5	3793110	3.16E-06	6.5YrCancerDerived_Inh
1795	ALL	353515.5	3793110	3.40E-06	6.5YrCancerDerived_Inh
1796	ALL	353540.5	3793110	3.75E-06	6.5YrCancerDerived_Inh
1797	ALL	353565.5	3793110	4.15E-06	6.5YrCancerDerived_Inh
1798	ALL	353590.5	3793110	4.60E-06	6.5YrCancerDerived_Inh
1799	ALL	353615.5	3793110	5.16E-06	6.5YrCancerDerived_Inh
1800	ALL	353640.5	3793110	5.87E-06	6.5YrCancerDerived_Inh
1801	ALL	353665.5	3793110	6.84E-06	6.5YrCancerDerived_Inh
1802	ALL	353690.5	3793110	8.26E-06	6.5YrCancerDerived_Inh
1803	ALL	353715.5	3793110	1.06E-05	6.5YrCancerDerived_Inh
1804	ALL	353740.5	3793110	1.52E-05	6.5YrCancerDerived_Inh
1805	ALL	353015.5	3793135	1.12E-06	6.5YrCancerDerived_Inh
1806	ALL	353040.5	3793135	1.16E-06	6.5YrCancerDerived_Inh
1807	ALL	353065.5	3793135	1.21E-06	6.5YrCancerDerived_Inh
1808	ALL	353090.5	3793135	1.27E-06	6.5YrCancerDerived_Inh
1809	ALL	353115.5	3793135	1.32E-06	6.5YrCancerDerived_Inh
1810	ALL	353140.5	3793135	1.39E-06	6.5YrCancerDerived_Inh
1811	ALL	353165.5	3793135	1.45E-06	6.5YrCancerDerived_Inh
1812	ALL	353190.5	3793135	1.53E-06	6.5YrCancerDerived_Inh
1813	ALL	353215.5	3793135	1.61E-06	6.5YrCancerDerived_Inh
1814	ALL	353240.5	3793135	1.69E-06	6.5YrCancerDerived_Inh
1815	ALL	353265.5	3793135	1.79E-06	6.5YrCancerDerived_Inh
1816	ALL	353290.5	3793135	1.90E-06	6.5YrCancerDerived_Inh
1817	ALL	353315.5	3793135	2.02E-06	6.5YrCancerDerived_Inh
1818	ALL	353340.5	3793135	2.15E-06	6.5YrCancerDerived_Inh
1819	ALL	353365.5	3793135	2.29E-06	6.5YrCancerDerived_Inh
1820	ALL	353390.5	3793135	2.44E-06	6.5YrCancerDerived_Inh
1821	ALL	353415.5	3793135	2.61E-06	6.5YrCancerDerived_Inh
1822	ALL	353440.5	3793135	2.80E-06	6.5YrCancerDerived_Inh
1823	ALL	353465.5	3793135	3.01E-06	6.5YrCancerDerived_Inh
1824	ALL	353490.5	3793135	3.25E-06	6.5YrCancerDerived_Inh
1825	ALL	353515.5	3793135	3.50E-06	6.5YrCancerDerived_Inh
1826	ALL	353540.5	3793135	3.79E-06	6.5YrCancerDerived_Inh
1827	ALL	353565.5	3793135	4.24E-06	6.5YrCancerDerived_Inh
1828	ALL	353590.5	3793135	4.70E-06	6.5YrCancerDerived_Inh
1829	ALL	353615.5	3793135	5.26E-06	6.5YrCancerDerived_Inh
1830	ALL	353640.5	3793135	5.99E-06	6.5YrCancerDerived_Inh
1831	ALL	353665.5	3793135	6.96E-06	6.5YrCancerDerived_Inh

1832	ALL	353690.5	3793135	8.38E-06	6.5YrCancerDerived_Inh
1833	ALL	353715.5	3793135	1.07E-05	6.5YrCancerDerived_Inh
1834	ALL	353740.5	3793135	1.52E-05	6.5YrCancerDerived_Inh
1835	ALL	353015.5	3793160	1.14E-06	6.5YrCancerDerived_Inh
1836	ALL	353040.5	3793160	1.18E-06	6.5YrCancerDerived_Inh
1837	ALL	353065.5	3793160	1.23E-06	6.5YrCancerDerived_Inh
1838	ALL	353090.5	3793160	1.29E-06	6.5YrCancerDerived_Inh
1839	ALL	353115.5	3793160	1.35E-06	6.5YrCancerDerived_Inh
1840	ALL	353140.5	3793160	1.41E-06	6.5YrCancerDerived_Inh
1841	ALL	353165.5	3793160	1.48E-06	6.5YrCancerDerived_Inh
1842	ALL	353190.5	3793160	1.56E-06	6.5YrCancerDerived_Inh
1843	ALL	353215.5	3793160	1.64E-06	6.5YrCancerDerived_Inh
1844	ALL	353240.5	3793160	1.73E-06	6.5YrCancerDerived_Inh
1845	ALL	353265.5	3793160	1.83E-06	6.5YrCancerDerived_Inh
1846	ALL	353290.5	3793160	1.94E-06	6.5YrCancerDerived_Inh
1847	ALL	353315.5	3793160	2.07E-06	6.5YrCancerDerived_Inh
1848	ALL	353340.5	3793160	2.19E-06	6.5YrCancerDerived_Inh
1849	ALL	353365.5	3793160	2.34E-06	6.5YrCancerDerived_Inh
1850	ALL	353390.5	3793160	2.50E-06	6.5YrCancerDerived_Inh
1851	ALL	353415.5	3793160	2.67E-06	6.5YrCancerDerived_Inh
1852	ALL	353440.5	3793160	2.86E-06	6.5YrCancerDerived_Inh
1853	ALL	353465.5	3793160	3.08E-06	6.5YrCancerDerived_Inh
1854	ALL	353490.5	3793160	3.32E-06	6.5YrCancerDerived_Inh
1855	ALL	353515.5	3793160	3.59E-06	6.5YrCancerDerived_Inh
1856	ALL	353540.5	3793160	3.87E-06	6.5YrCancerDerived_Inh
1857	ALL	353565.5	3793160	4.33E-06	6.5YrCancerDerived_Inh
1858	ALL	353590.5	3793160	4.81E-06	6.5YrCancerDerived_Inh
1859	ALL	353615.5	3793160	5.38E-06	6.5YrCancerDerived_Inh
1860	ALL	353640.5	3793160	6.12E-06	6.5YrCancerDerived_Inh
1861	ALL	353665.5	3793160	7.10E-06	6.5YrCancerDerived_Inh
1862	ALL	353690.5	3793160	8.52E-06	6.5YrCancerDerived_Inh
1863	ALL	353715.5	3793160	1.09E-05	6.5YrCancerDerived_Inh
1864	ALL	353740.5	3793160	1.53E-05	6.5YrCancerDerived_Inh
1865	ALL	353015.5	3793185	1.15E-06	6.5YrCancerDerived_Inh
1866	ALL	353040.5	3793185	1.20E-06	6.5YrCancerDerived_Inh
1867	ALL	353065.5	3793185	1.26E-06	6.5YrCancerDerived_Inh
1868	ALL	353090.5	3793185	1.31E-06	6.5YrCancerDerived_Inh
1869	ALL	353115.5	3793185	1.38E-06	6.5YrCancerDerived_Inh
1870	ALL	353140.5	3793185	1.44E-06	6.5YrCancerDerived_Inh
1871	ALL	353165.5	3793185	1.51E-06	6.5YrCancerDerived_Inh
1872	ALL	353190.5	3793185	1.59E-06	6.5YrCancerDerived_Inh
1873	ALL	353215.5	3793185	1.67E-06	6.5YrCancerDerived_Inh
1874	ALL	353240.5	3793185	1.77E-06	6.5YrCancerDerived_Inh
1875	ALL	353265.5	3793185	1.87E-06	6.5YrCancerDerived_Inh
1876	ALL	353290.5	3793185	1.99E-06	6.5YrCancerDerived_Inh
1877	ALL	353315.5	3793185	2.11E-06	6.5YrCancerDerived_Inh
1878	ALL	353340.5	3793185	2.24E-06	6.5YrCancerDerived_Inh

1879	ALL	353365.5	3793185	2.38E-06	6.5YrCancerDerived_Inh
1880	ALL	353390.5	3793185	2.55E-06	6.5YrCancerDerived_Inh
1881	ALL	353415.5	3793185	2.73E-06	6.5YrCancerDerived_Inh
1882	ALL	353440.5	3793185	2.93E-06	6.5YrCancerDerived_Inh
1883	ALL	353465.5	3793185	3.14E-06	6.5YrCancerDerived_Inh
1884	ALL	353490.5	3793185	3.40E-06	6.5YrCancerDerived_Inh
1885	ALL	353515.5	3793185	3.68E-06	6.5YrCancerDerived_Inh
1886	ALL	353540.5	3793185	3.99E-06	6.5YrCancerDerived_Inh
1887	ALL	353565.5	3793185	4.36E-06	6.5YrCancerDerived_Inh
1888	ALL	353590.5	3793185	4.92E-06	6.5YrCancerDerived_Inh
1889	ALL	353615.5	3793185	5.50E-06	6.5YrCancerDerived_Inh
1890	ALL	353640.5	3793185	6.24E-06	6.5YrCancerDerived_Inh
1891	ALL	353665.5	3793185	7.23E-06	6.5YrCancerDerived_Inh
1892	ALL	353690.5	3793185	8.68E-06	6.5YrCancerDerived_Inh
1893	ALL	353715.5	3793185	1.11E-05	6.5YrCancerDerived_Inh
1894	ALL	353740.5	3793185	1.54E-05	6.5YrCancerDerived_Inh
1895	ALL	353015.5	3793210	1.17E-06	6.5YrCancerDerived_Inh
1896	ALL	353040.5	3793210	1.22E-06	6.5YrCancerDerived_Inh
1897	ALL	353065.5	3793210	1.28E-06	6.5YrCancerDerived_Inh
1898	ALL	353090.5	3793210	1.34E-06	6.5YrCancerDerived_Inh
1899	ALL	353115.5	3793210	1.40E-06	6.5YrCancerDerived_Inh
1900	ALL	353140.5	3793210	1.47E-06	6.5YrCancerDerived_Inh
1901	ALL	353165.5	3793210	1.54E-06	6.5YrCancerDerived_Inh
1902	ALL	353190.5	3793210	1.62E-06	6.5YrCancerDerived_Inh
1903	ALL	353215.5	3793210	1.71E-06	6.5YrCancerDerived_Inh
1904	ALL	353240.5	3793210	1.81E-06	6.5YrCancerDerived_Inh
1905	ALL	353265.5	3793210	1.91E-06	6.5YrCancerDerived_Inh
1906	ALL	353290.5	3793210	2.03E-06	6.5YrCancerDerived_Inh
1907	ALL	353315.5	3793210	2.15E-06	6.5YrCancerDerived_Inh
1908	ALL	353340.5	3793210	2.29E-06	6.5YrCancerDerived_Inh
1909	ALL	353365.5	3793210	2.43E-06	6.5YrCancerDerived_Inh
1910	ALL	353390.5	3793210	2.60E-06	6.5YrCancerDerived_Inh
1911	ALL	353415.5	3793210	2.78E-06	6.5YrCancerDerived_Inh
1912	ALL	353440.5	3793210	2.98E-06	6.5YrCancerDerived_Inh
1913	ALL	353465.5	3793210	3.21E-06	6.5YrCancerDerived_Inh
1914	ALL	353490.5	3793210	3.48E-06	6.5YrCancerDerived_Inh
1915	ALL	353515.5	3793210	3.78E-06	6.5YrCancerDerived_Inh
1916	ALL	353540.5	3793210	4.11E-06	6.5YrCancerDerived_Inh
1917	ALL	353565.5	3793210	4.44E-06	6.5YrCancerDerived_Inh
1918	ALL	353590.5	3793210	5.03E-06	6.5YrCancerDerived_Inh
1919	ALL	353615.5	3793210	5.63E-06	6.5YrCancerDerived_Inh
1920	ALL	353640.5	3793210	6.38E-06	6.5YrCancerDerived_Inh
1921	ALL	353665.5	3793210	7.38E-06	6.5YrCancerDerived_Inh
1922	ALL	353690.5	3793210	8.84E-06	6.5YrCancerDerived_Inh
1923	ALL	353715.5	3793210	1.12E-05	6.5YrCancerDerived_Inh
1924	ALL	353740.5	3793210	1.56E-05	6.5YrCancerDerived_Inh
1925	ALL	353615.5	3793235	5.76E-06	6.5YrCancerDerived_Inh

1926	ALL	353640.5	3793235	6.53E-06	6.5YrCancerDerived_Inh
1927	ALL	353665.5	3793235	7.55E-06	6.5YrCancerDerived_Inh
1928	ALL	353690.5	3793235	9.02E-06	6.5YrCancerDerived_Inh
1929	ALL	353715.5	3793235	1.14E-05	6.5YrCancerDerived_Inh
1930	ALL	353740.5	3793235	1.57E-05	6.5YrCancerDerived_Inh
1931	ALL	353923.3	3793217	9.24E-06	6.5YrCancerDerived_Inh
1932	ALL	353918	3793262	1.14E-05	6.5YrCancerDerived_Inh
1933	ALL	353933	3793262	1.14E-05	6.5YrCancerDerived_Inh
1934	ALL	353948	3793262	1.15E-05	6.5YrCancerDerived_Inh
1935	ALL	353963	3793262	1.15E-05	6.5YrCancerDerived_Inh
1936	ALL	353918	3793277	1.24E-05	6.5YrCancerDerived_Inh
1937	ALL	353933	3793277	1.25E-05	6.5YrCancerDerived_Inh
1938	ALL	353948	3793277	1.26E-05	6.5YrCancerDerived_Inh
1939	ALL	353963	3793277	1.26E-05	6.5YrCancerDerived_Inh
1940	ALL	353978	3793277	1.26E-05	6.5YrCancerDerived_Inh
1941	ALL	353993	3793277	1.24E-05	6.5YrCancerDerived_Inh
1942	ALL	353933	3793292	1.38E-05	6.5YrCancerDerived_Inh
1943	ALL	353948	3793292	1.40E-05	6.5YrCancerDerived_Inh
1944	ALL	353963	3793292	1.40E-05	6.5YrCancerDerived_Inh
1945	ALL	353978	3793292	1.39E-05	6.5YrCancerDerived_Inh
1946	ALL	353993	3793292	1.38E-05	6.5YrCancerDerived_Inh
1947	ALL	354008	3793292	1.36E-05	6.5YrCancerDerived_Inh
1948	ALL	354023	3793292	1.33E-05	6.5YrCancerDerived_Inh
1949	ALL	353963	3793307	1.56E-05	6.5YrCancerDerived_Inh
1950	ALL	353978	3793307	1.55E-05	6.5YrCancerDerived_Inh
1951	ALL	353993	3793307	1.54E-05	6.5YrCancerDerived_Inh
1952	ALL	354008	3793307	1.52E-05	6.5YrCancerDerived_Inh
1953	ALL	354023	3793307	1.48E-05	6.5YrCancerDerived_Inh
1954	ALL	354038	3793307	1.44E-05	6.5YrCancerDerived_Inh
1955	ALL	353963	3793322	1.78E-05	6.5YrCancerDerived_Inh
1956	ALL	353978	3793322	1.77E-05	6.5YrCancerDerived_Inh
1957	ALL	353993	3793322	1.75E-05	6.5YrCancerDerived_Inh
1958	ALL	354008	3793322	1.73E-05	6.5YrCancerDerived_Inh
1959	ALL	354023	3793322	1.68E-05	6.5YrCancerDerived_Inh
1960	ALL	354038	3793322	1.64E-05	6.5YrCancerDerived_Inh
1961	ALL	354053	3793322	1.58E-05	6.5YrCancerDerived_Inh
1962	ALL	353993	3793337	2.02E-05	6.5YrCancerDerived_Inh
1963	ALL	354008	3793337	1.99E-05	6.5YrCancerDerived_Inh
1964	ALL	354023	3793337	1.94E-05	6.5YrCancerDerived_Inh
1965	ALL	354038	3793337	1.89E-05	6.5YrCancerDerived_Inh
1966	ALL	354053	3793337	1.82E-05	6.5YrCancerDerived_Inh
1967	ALL	354068	3793337	1.72E-05	6.5YrCancerDerived_Inh
1968	ALL	354008	3793352	2.32E-05	6.5YrCancerDerived_Inh
1969	ALL	354023	3793352	2.28E-05	6.5YrCancerDerived_Inh
1970	ALL	354038	3793352	2.21E-05	6.5YrCancerDerived_Inh
1971	ALL	354053	3793352	2.12E-05	6.5YrCancerDerived_Inh
1972	ALL	354068	3793352	2.00E-05	6.5YrCancerDerived_Inh

1973	ALL	354083	3793352	1.88E-05	6.5YrCancerDerived_Inh
1974	ALL	354008	3793367	2.77E-05	6.5YrCancerDerived_Inh
1975	ALL	354023	3793367	2.74E-05	6.5YrCancerDerived_Inh
1976	ALL	354038	3793367	2.63E-05	6.5YrCancerDerived_Inh
1977	ALL	354053	3793367	2.50E-05	6.5YrCancerDerived_Inh
1978	ALL	354068	3793367	2.37E-05	6.5YrCancerDerived_Inh
1979	ALL	354083	3793367	2.21E-05	6.5YrCancerDerived_Inh
1980	ALL	354098	3793367	2.03E-05	6.5YrCancerDerived_Inh
1981	ALL	354008	3793382	3.35E-05	6.5YrCancerDerived_Inh
1982	ALL	354023	3793382	3.29E-05	6.5YrCancerDerived_Inh
1983	ALL	354038	3793382	3.17E-05	6.5YrCancerDerived_Inh
1984	ALL	354053	3793382	3.01E-05	6.5YrCancerDerived_Inh
1985	ALL	354068	3793382	2.83E-05	6.5YrCancerDerived_Inh
1986	ALL	354083	3793382	2.62E-05	6.5YrCancerDerived_Inh
1987	ALL	354098	3793382	2.38E-05	6.5YrCancerDerived_Inh
1988	ALL	354008	3793397	4.14E-05	6.5YrCancerDerived_Inh
1989	ALL	354023	3793397	4.04E-05	6.5YrCancerDerived_Inh
1990	ALL	354038	3793397	3.89E-05	6.5YrCancerDerived_Inh
1991	ALL	354053	3793397	3.70E-05	6.5YrCancerDerived_Inh
1992	ALL	354068	3793397	3.45E-05	6.5YrCancerDerived_Inh
1993	ALL	354083	3793397	3.18E-05	6.5YrCancerDerived_Inh
1994	ALL	354098	3793397	2.88E-05	6.5YrCancerDerived_Inh
1995	ALL	354113	3793397	2.62E-05	6.5YrCancerDerived_Inh
1996	ALL	354008	3793412	5.38E-05	6.5YrCancerDerived_Inh
1997	ALL	354023	3793412	5.24E-05	6.5YrCancerDerived_Inh
1998	ALL	354038	3793412	5.04E-05	6.5YrCancerDerived_Inh
1999	ALL	354053	3793412	4.77E-05	6.5YrCancerDerived_Inh
2000	ALL	354068	3793412	4.43E-05	6.5YrCancerDerived_Inh
2001	ALL	354083	3793412	4.05E-05	6.5YrCancerDerived_Inh
2002	ALL	354098	3793412	3.64E-05	6.5YrCancerDerived_Inh
2003	ALL	354113	3793412	3.26E-05	6.5YrCancerDerived_Inh
2004	ALL	354128	3793412	2.84E-05	6.5YrCancerDerived_Inh
2005	ALL	354008	3793427	7.43E-05	6.5YrCancerDerived_Inh
2006	ALL	354023	3793427	7.25E-05	6.5YrCancerDerived_Inh
2007	ALL	354038	3793427	6.94E-05	6.5YrCancerDerived_Inh
2008	ALL	354053	3793427	6.52E-05	6.5YrCancerDerived_Inh
2009	ALL	354068	3793427	6.03E-05	6.5YrCancerDerived_Inh
2010	ALL	354083	3793427	5.48E-05	6.5YrCancerDerived_Inh
2011	ALL	354098	3793427	4.90E-05	6.5YrCancerDerived_Inh
2012	ALL	354113	3793427	4.30E-05	6.5YrCancerDerived_Inh
2013	ALL	354128	3793427	3.57E-05	6.5YrCancerDerived_Inh
2014	ALL	353366.5	3793255	2.52E-06	6.5YrCancerDerived_Inh
2015	ALL	353381.5	3793255	2.64E-06	6.5YrCancerDerived_Inh
2016	ALL	353396.5	3793255	2.75E-06	6.5YrCancerDerived_Inh
2017	ALL	353411.5	3793255	2.86E-06	6.5YrCancerDerived_Inh
2018	ALL	353426.5	3793255	2.98E-06	6.5YrCancerDerived_Inh
2019	ALL	353441.5	3793255	3.10E-06	6.5YrCancerDerived_Inh

2020	ALL	353456.5	3793255	3.24E-06	6.5YrCancerDerived_Inh
2021	ALL	353471.5	3793255	3.39E-06	6.5YrCancerDerived_Inh
2022	ALL	353486.5	3793255	3.56E-06	6.5YrCancerDerived_Inh
2023	ALL	353501.5	3793255	3.74E-06	6.5YrCancerDerived_Inh
2024	ALL	353516.5	3793255	3.93E-06	6.5YrCancerDerived_Inh
2025	ALL	353531.5	3793255	4.15E-06	6.5YrCancerDerived_Inh
2026	ALL	353546.5	3793255	4.39E-06	6.5YrCancerDerived_Inh
2027	ALL	353366.5	3793270	2.55E-06	6.5YrCancerDerived_Inh
2028	ALL	353381.5	3793270	2.67E-06	6.5YrCancerDerived_Inh
2029	ALL	353396.5	3793270	2.78E-06	6.5YrCancerDerived_Inh
2030	ALL	353411.5	3793270	2.90E-06	6.5YrCancerDerived_Inh
2031	ALL	353426.5	3793270	3.01E-06	6.5YrCancerDerived_Inh
2032	ALL	353441.5	3793270	3.14E-06	6.5YrCancerDerived_Inh
2033	ALL	353456.5	3793270	3.28E-06	6.5YrCancerDerived_Inh
2034	ALL	353471.5	3793270	3.44E-06	6.5YrCancerDerived_Inh
2035	ALL	353486.5	3793270	3.60E-06	6.5YrCancerDerived_Inh
2036	ALL	353501.5	3793270	3.78E-06	6.5YrCancerDerived_Inh
2037	ALL	353516.5	3793270	3.98E-06	6.5YrCancerDerived_Inh
2038	ALL	353531.5	3793270	4.20E-06	6.5YrCancerDerived_Inh
2039	ALL	353546.5	3793270	4.44E-06	6.5YrCancerDerived_Inh
2040	ALL	353561.5	3793270	4.72E-06	6.5YrCancerDerived_Inh
2041	ALL	353576.5	3793270	5.00E-06	6.5YrCancerDerived_Inh
2042	ALL	353591.5	3793270	5.32E-06	6.5YrCancerDerived_Inh
2043	ALL	353606.5	3793270	5.73E-06	6.5YrCancerDerived_Inh
2044	ALL	353621.5	3793270	6.18E-06	6.5YrCancerDerived_Inh
2045	ALL	353636.5	3793270	6.68E-06	6.5YrCancerDerived_Inh
2046	ALL	353651.5	3793270	7.26E-06	6.5YrCancerDerived_Inh
2047	ALL	353666.5	3793270	7.95E-06	6.5YrCancerDerived_Inh
2048	ALL	353681.5	3793270	8.79E-06	6.5YrCancerDerived_Inh
2049	ALL	353696.5	3793270	9.83E-06	6.5YrCancerDerived_Inh
2050	ALL	353711.5	3793270	1.12E-05	6.5YrCancerDerived_Inh
2051	ALL	353726.5	3793270	1.32E-05	6.5YrCancerDerived_Inh
2052	ALL	353366.5	3793285	2.58E-06	6.5YrCancerDerived_Inh
2053	ALL	353381.5	3793285	2.70E-06	6.5YrCancerDerived_Inh
2054	ALL	353396.5	3793285	2.81E-06	6.5YrCancerDerived_Inh
2055	ALL	353411.5	3793285	2.93E-06	6.5YrCancerDerived_Inh
2056	ALL	353426.5	3793285	3.05E-06	6.5YrCancerDerived_Inh
2057	ALL	353441.5	3793285	3.18E-06	6.5YrCancerDerived_Inh
2058	ALL	353456.5	3793285	3.33E-06	6.5YrCancerDerived_Inh
2059	ALL	353471.5	3793285	3.48E-06	6.5YrCancerDerived_Inh
2060	ALL	353486.5	3793285	3.65E-06	6.5YrCancerDerived_Inh
2061	ALL	353501.5	3793285	3.83E-06	6.5YrCancerDerived_Inh
2062	ALL	353516.5	3793285	4.03E-06	6.5YrCancerDerived_Inh
2063	ALL	353531.5	3793285	4.25E-06	6.5YrCancerDerived_Inh
2064	ALL	353546.5	3793285	4.50E-06	6.5YrCancerDerived_Inh
2065	ALL	353561.5	3793285	4.79E-06	6.5YrCancerDerived_Inh
2066	ALL	353576.5	3793285	5.06E-06	6.5YrCancerDerived_Inh

2067	ALL	353591.5	3793285	5.38E-06	6.5YrCancerDerived_Inh
2068	ALL	353606.5	3793285	5.84E-06	6.5YrCancerDerived_Inh
2069	ALL	353621.5	3793285	6.32E-06	6.5YrCancerDerived_Inh
2070	ALL	353636.5	3793285	6.83E-06	6.5YrCancerDerived_Inh
2071	ALL	353651.5	3793285	7.43E-06	6.5YrCancerDerived_Inh
2072	ALL	353666.5	3793285	8.14E-06	6.5YrCancerDerived_Inh
2073	ALL	353681.5	3793285	8.98E-06	6.5YrCancerDerived_Inh
2074	ALL	353696.5	3793285	1.00E-05	6.5YrCancerDerived_Inh
2075	ALL	353711.5	3793285	1.14E-05	6.5YrCancerDerived_Inh
2076	ALL	353726.5	3793285	1.34E-05	6.5YrCancerDerived_Inh
2077	ALL	353366.5	3793300	2.61E-06	6.5YrCancerDerived_Inh
2078	ALL	353381.5	3793300	2.73E-06	6.5YrCancerDerived_Inh
2079	ALL	353396.5	3793300	2.85E-06	6.5YrCancerDerived_Inh
2080	ALL	353411.5	3793300	2.97E-06	6.5YrCancerDerived_Inh
2081	ALL	353426.5	3793300	3.09E-06	6.5YrCancerDerived_Inh
2082	ALL	353441.5	3793300	3.22E-06	6.5YrCancerDerived_Inh
2083	ALL	353456.5	3793300	3.37E-06	6.5YrCancerDerived_Inh
2084	ALL	353471.5	3793300	3.53E-06	6.5YrCancerDerived_Inh
2085	ALL	353486.5	3793300	3.70E-06	6.5YrCancerDerived_Inh
2086	ALL	353501.5	3793300	3.89E-06	6.5YrCancerDerived_Inh
2087	ALL	353516.5	3793300	4.09E-06	6.5YrCancerDerived_Inh
2088	ALL	353531.5	3793300	4.31E-06	6.5YrCancerDerived_Inh
2089	ALL	353546.5	3793300	4.57E-06	6.5YrCancerDerived_Inh
2090	ALL	353561.5	3793300	4.86E-06	6.5YrCancerDerived_Inh
2091	ALL	353576.5	3793300	5.14E-06	6.5YrCancerDerived_Inh
2092	ALL	353591.5	3793300	5.47E-06	6.5YrCancerDerived_Inh
2093	ALL	353606.5	3793300	5.93E-06	6.5YrCancerDerived_Inh
2094	ALL	353621.5	3793300	6.42E-06	6.5YrCancerDerived_Inh
2095	ALL	353636.5	3793300	6.95E-06	6.5YrCancerDerived_Inh
2096	ALL	353651.5	3793300	7.56E-06	6.5YrCancerDerived_Inh
2097	ALL	353666.5	3793300	8.28E-06	6.5YrCancerDerived_Inh
2098	ALL	353681.5	3793300	9.15E-06	6.5YrCancerDerived_Inh
2099	ALL	353696.5	3793300	1.02E-05	6.5YrCancerDerived_Inh
2100	ALL	353711.5	3793300	1.16E-05	6.5YrCancerDerived_Inh
2101	ALL	353726.5	3793300	1.38E-05	6.5YrCancerDerived_Inh
2102	ALL	353366.5	3793315	2.64E-06	6.5YrCancerDerived_Inh
2103	ALL	353381.5	3793315	2.76E-06	6.5YrCancerDerived_Inh
2104	ALL	353396.5	3793315	2.88E-06	6.5YrCancerDerived_Inh
2105	ALL	353411.5	3793315	3.00E-06	6.5YrCancerDerived_Inh
2106	ALL	353426.5	3793315	3.12E-06	6.5YrCancerDerived_Inh
2107	ALL	353441.5	3793315	3.25E-06	6.5YrCancerDerived_Inh
2108	ALL	353456.5	3793315	3.41E-06	6.5YrCancerDerived_Inh
2109	ALL	353471.5	3793315	3.57E-06	6.5YrCancerDerived_Inh
2110	ALL	353486.5	3793315	3.76E-06	6.5YrCancerDerived_Inh
2111	ALL	353501.5	3793315	3.95E-06	6.5YrCancerDerived_Inh
2112	ALL	353516.5	3793315	4.16E-06	6.5YrCancerDerived_Inh
2113	ALL	353531.5	3793315	4.38E-06	6.5YrCancerDerived_Inh

2114	ALL	353546.5	3793315	4.64E-06	6.5YrCancerDerived_Inh
2115	ALL	353561.5	3793315	4.93E-06	6.5YrCancerDerived_Inh
2116	ALL	353576.5	3793315	5.23E-06	6.5YrCancerDerived_Inh
2117	ALL	353591.5	3793315	5.56E-06	6.5YrCancerDerived_Inh
2118	ALL	353606.5	3793315	6.03E-06	6.5YrCancerDerived_Inh
2119	ALL	353621.5	3793315	6.53E-06	6.5YrCancerDerived_Inh
2120	ALL	353636.5	3793315	7.07E-06	6.5YrCancerDerived_Inh
2121	ALL	353651.5	3793315	7.70E-06	6.5YrCancerDerived_Inh
2122	ALL	353666.5	3793315	8.44E-06	6.5YrCancerDerived_Inh
2123	ALL	353681.5	3793315	9.33E-06	6.5YrCancerDerived_Inh
2124	ALL	353696.5	3793315	1.05E-05	6.5YrCancerDerived_Inh
2125	ALL	353711.5	3793315	1.19E-05	6.5YrCancerDerived_Inh
2126	ALL	353726.5	3793315	1.42E-05	6.5YrCancerDerived_Inh
2127	ALL	353366.5	3793330	2.68E-06	6.5YrCancerDerived_Inh
2128	ALL	353381.5	3793330	2.79E-06	6.5YrCancerDerived_Inh
2129	ALL	353396.5	3793330	2.91E-06	6.5YrCancerDerived_Inh
2130	ALL	353411.5	3793330	3.04E-06	6.5YrCancerDerived_Inh
2131	ALL	353426.5	3793330	3.16E-06	6.5YrCancerDerived_Inh
2132	ALL	353441.5	3793330	3.29E-06	6.5YrCancerDerived_Inh
2133	ALL	353456.5	3793330	3.45E-06	6.5YrCancerDerived_Inh
2134	ALL	353471.5	3793330	3.62E-06	6.5YrCancerDerived_Inh
2135	ALL	353486.5	3793330	3.80E-06	6.5YrCancerDerived_Inh
2136	ALL	353501.5	3793330	4.00E-06	6.5YrCancerDerived_Inh
2137	ALL	353516.5	3793330	4.22E-06	6.5YrCancerDerived_Inh
2138	ALL	353531.5	3793330	4.45E-06	6.5YrCancerDerived_Inh
2139	ALL	353546.5	3793330	4.71E-06	6.5YrCancerDerived_Inh
2140	ALL	353561.5	3793330	5.01E-06	6.5YrCancerDerived_Inh
2141	ALL	353576.5	3793330	5.32E-06	6.5YrCancerDerived_Inh
2142	ALL	353591.5	3793330	5.68E-06	6.5YrCancerDerived_Inh
2143	ALL	353606.5	3793330	6.13E-06	6.5YrCancerDerived_Inh
2144	ALL	353621.5	3793330	6.63E-06	6.5YrCancerDerived_Inh
2145	ALL	353636.5	3793330	7.19E-06	6.5YrCancerDerived_Inh
2146	ALL	353651.5	3793330	7.84E-06	6.5YrCancerDerived_Inh
2147	ALL	353666.5	3793330	8.61E-06	6.5YrCancerDerived_Inh
2148	ALL	353681.5	3793330	9.55E-06	6.5YrCancerDerived_Inh
2149	ALL	353696.5	3793330	1.08E-05	6.5YrCancerDerived_Inh
2150	ALL	353711.5	3793330	1.24E-05	6.5YrCancerDerived_Inh
2151	ALL	353726.5	3793330	1.48E-05	6.5YrCancerDerived_Inh
2152	ALL	353366.5	3793345	2.71E-06	6.5YrCancerDerived_Inh
2153	ALL	353381.5	3793345	2.83E-06	6.5YrCancerDerived_Inh
2154	ALL	353396.5	3793345	2.95E-06	6.5YrCancerDerived_Inh
2155	ALL	353411.5	3793345	3.07E-06	6.5YrCancerDerived_Inh
2156	ALL	353426.5	3793345	3.19E-06	6.5YrCancerDerived_Inh
2157	ALL	353441.5	3793345	3.33E-06	6.5YrCancerDerived_Inh
2158	ALL	353456.5	3793345	3.49E-06	6.5YrCancerDerived_Inh
2159	ALL	353471.5	3793345	3.67E-06	6.5YrCancerDerived_Inh
2160	ALL	353486.5	3793345	3.85E-06	6.5YrCancerDerived_Inh

2161	ALL	353501.5	3793345	4.06E-06	6.5YrCancerDerived_Inh
2162	ALL	353516.5	3793345	4.28E-06	6.5YrCancerDerived_Inh
2163	ALL	353531.5	3793345	4.52E-06	6.5YrCancerDerived_Inh
2164	ALL	353546.5	3793345	4.78E-06	6.5YrCancerDerived_Inh
2165	ALL	353561.5	3793345	5.08E-06	6.5YrCancerDerived_Inh
2166	ALL	353576.5	3793345	5.41E-06	6.5YrCancerDerived_Inh
2167	ALL	353591.5	3793345	5.79E-06	6.5YrCancerDerived_Inh
2168	ALL	353606.5	3793345	6.24E-06	6.5YrCancerDerived_Inh
2169	ALL	353621.5	3793345	6.75E-06	6.5YrCancerDerived_Inh
2170	ALL	353636.5	3793345	7.32E-06	6.5YrCancerDerived_Inh
2171	ALL	353651.5	3793345	8.00E-06	6.5YrCancerDerived_Inh
2172	ALL	353666.5	3793345	8.81E-06	6.5YrCancerDerived_Inh
2173	ALL	353681.5	3793345	9.80E-06	6.5YrCancerDerived_Inh
2174	ALL	353696.5	3793345	1.11E-05	6.5YrCancerDerived_Inh
2175	ALL	353711.5	3793345	1.29E-05	6.5YrCancerDerived_Inh
2176	ALL	353726.5	3793345	1.56E-05	6.5YrCancerDerived_Inh
2177	ALL	353366.5	3793360	2.74E-06	6.5YrCancerDerived_Inh
2178	ALL	353381.5	3793360	2.86E-06	6.5YrCancerDerived_Inh
2179	ALL	353396.5	3793360	2.98E-06	6.5YrCancerDerived_Inh
2180	ALL	353411.5	3793360	3.10E-06	6.5YrCancerDerived_Inh
2181	ALL	353426.5	3793360	3.23E-06	6.5YrCancerDerived_Inh
2182	ALL	353441.5	3793360	3.38E-06	6.5YrCancerDerived_Inh
2183	ALL	353456.5	3793360	3.54E-06	6.5YrCancerDerived_Inh
2184	ALL	353471.5	3793360	3.71E-06	6.5YrCancerDerived_Inh
2185	ALL	353486.5	3793360	3.90E-06	6.5YrCancerDerived_Inh
2186	ALL	353501.5	3793360	4.11E-06	6.5YrCancerDerived_Inh
2187	ALL	353516.5	3793360	4.34E-06	6.5YrCancerDerived_Inh
2188	ALL	353531.5	3793360	4.58E-06	6.5YrCancerDerived_Inh
2189	ALL	353546.5	3793360	4.85E-06	6.5YrCancerDerived_Inh
2190	ALL	353561.5	3793360	5.14E-06	6.5YrCancerDerived_Inh
2191	ALL	353576.5	3793360	5.49E-06	6.5YrCancerDerived_Inh
2192	ALL	353591.5	3793360	5.90E-06	6.5YrCancerDerived_Inh
2193	ALL	353606.5	3793360	6.39E-06	6.5YrCancerDerived_Inh
2194	ALL	353621.5	3793360	6.93E-06	6.5YrCancerDerived_Inh
2195	ALL	353636.5	3793360	7.54E-06	6.5YrCancerDerived_Inh
2196	ALL	353651.5	3793360	8.24E-06	6.5YrCancerDerived_Inh
2197	ALL	353666.5	3793360	9.09E-06	6.5YrCancerDerived_Inh
2198	ALL	353681.5	3793360	1.02E-05	6.5YrCancerDerived_Inh
2199	ALL	353696.5	3793360	1.16E-05	6.5YrCancerDerived_Inh
2200	ALL	353711.5	3793360	1.36E-05	6.5YrCancerDerived_Inh
2201	ALL	353726.5	3793360	1.67E-05	6.5YrCancerDerived_Inh
2202	ALL	353366.5	3793375	2.79E-06	6.5YrCancerDerived_Inh
2203	ALL	353381.5	3793375	2.89E-06	6.5YrCancerDerived_Inh
2204	ALL	353396.5	3793375	3.01E-06	6.5YrCancerDerived_Inh
2205	ALL	353411.5	3793375	3.13E-06	6.5YrCancerDerived_Inh
2206	ALL	353426.5	3793375	3.28E-06	6.5YrCancerDerived_Inh
2207	ALL	353441.5	3793375	3.43E-06	6.5YrCancerDerived_Inh

2208	ALL	353456.5	3793375	3.59E-06	6.5YrCancerDerived_Inh
2209	ALL	353471.5	3793375	3.76E-06	6.5YrCancerDerived_Inh
2210	ALL	353486.5	3793375	3.96E-06	6.5YrCancerDerived_Inh
2211	ALL	353501.5	3793375	4.17E-06	6.5YrCancerDerived_Inh
2212	ALL	353516.5	3793375	4.40E-06	6.5YrCancerDerived_Inh
2213	ALL	353531.5	3793375	4.65E-06	6.5YrCancerDerived_Inh
2214	ALL	353546.5	3793375	4.91E-06	6.5YrCancerDerived_Inh
2215	ALL	353561.5	3793375	5.19E-06	6.5YrCancerDerived_Inh
2216	ALL	353576.5	3793375	5.56E-06	6.5YrCancerDerived_Inh
2217	ALL	353591.5	3793375	6.01E-06	6.5YrCancerDerived_Inh
2218	ALL	353606.5	3793375	6.55E-06	6.5YrCancerDerived_Inh
2219	ALL	353621.5	3793375	7.13E-06	6.5YrCancerDerived_Inh
2220	ALL	353636.5	3793375	7.76E-06	6.5YrCancerDerived_Inh
2221	ALL	353651.5	3793375	8.50E-06	6.5YrCancerDerived_Inh
2222	ALL	353666.5	3793375	9.38E-06	6.5YrCancerDerived_Inh
2223	ALL	353681.5	3793375	1.05E-05	6.5YrCancerDerived_Inh
2224	ALL	353696.5	3793375	1.21E-05	6.5YrCancerDerived_Inh
2225	ALL	353711.5	3793375	1.46E-05	6.5YrCancerDerived_Inh
2226	ALL	353366.5	3793390	2.87E-06	6.5YrCancerDerived_Inh
2227	ALL	353381.5	3793390	2.94E-06	6.5YrCancerDerived_Inh
2228	ALL	353396.5	3793390	3.06E-06	6.5YrCancerDerived_Inh
2229	ALL	353411.5	3793390	3.19E-06	6.5YrCancerDerived_Inh
2230	ALL	353426.5	3793390	3.34E-06	6.5YrCancerDerived_Inh
2231	ALL	353441.5	3793390	3.49E-06	6.5YrCancerDerived_Inh
2232	ALL	353456.5	3793390	3.64E-06	6.5YrCancerDerived_Inh
2233	ALL	353471.5	3793390	3.81E-06	6.5YrCancerDerived_Inh
2234	ALL	353486.5	3793390	4.01E-06	6.5YrCancerDerived_Inh
2235	ALL	353501.5	3793390	4.23E-06	6.5YrCancerDerived_Inh
2236	ALL	353516.5	3793390	4.46E-06	6.5YrCancerDerived_Inh
2237	ALL	353531.5	3793390	4.72E-06	6.5YrCancerDerived_Inh
2238	ALL	353546.5	3793390	4.99E-06	6.5YrCancerDerived_Inh
2239	ALL	353561.5	3793390	5.27E-06	6.5YrCancerDerived_Inh
2240	ALL	353576.5	3793390	5.67E-06	6.5YrCancerDerived_Inh
2241	ALL	353591.5	3793390	6.16E-06	6.5YrCancerDerived_Inh
2242	ALL	353606.5	3793390	6.68E-06	6.5YrCancerDerived_Inh
2243	ALL	353621.5	3793390	7.26E-06	6.5YrCancerDerived_Inh
2244	ALL	353636.5	3793390	7.91E-06	6.5YrCancerDerived_Inh
2245	ALL	353651.5	3793390	8.69E-06	6.5YrCancerDerived_Inh
2246	ALL	353666.5	3793390	9.64E-06	6.5YrCancerDerived_Inh
2247	ALL	353681.5	3793390	1.09E-05	6.5YrCancerDerived_Inh
2248	ALL	353696.5	3793390	1.27E-05	6.5YrCancerDerived_Inh
2249	ALL	353711.5	3793390	1.56E-05	6.5YrCancerDerived_Inh
2250	ALL	353366.5	3793405	2.95E-06	6.5YrCancerDerived_Inh
2251	ALL	353381.5	3793405	3.03E-06	6.5YrCancerDerived_Inh
2252	ALL	353396.5	3793405	3.15E-06	6.5YrCancerDerived_Inh
2253	ALL	353411.5	3793405	3.28E-06	6.5YrCancerDerived_Inh
2254	ALL	353426.5	3793405	3.43E-06	6.5YrCancerDerived_Inh

2255	ALL	353441.5	3793405	3.57E-06	6.5YrCancerDerived_Inh
2256	ALL	353456.5	3793405	3.70E-06	6.5YrCancerDerived_Inh
2257	ALL	353471.5	3793405	3.87E-06	6.5YrCancerDerived_Inh
2258	ALL	353486.5	3793405	4.06E-06	6.5YrCancerDerived_Inh
2259	ALL	353501.5	3793405	4.28E-06	6.5YrCancerDerived_Inh
2260	ALL	353516.5	3793405	4.52E-06	6.5YrCancerDerived_Inh
2261	ALL	353531.5	3793405	4.79E-06	6.5YrCancerDerived_Inh
2262	ALL	353546.5	3793405	5.06E-06	6.5YrCancerDerived_Inh
2263	ALL	353561.5	3793405	5.34E-06	6.5YrCancerDerived_Inh
2264	ALL	353576.5	3793405	5.78E-06	6.5YrCancerDerived_Inh
2265	ALL	353591.5	3793405	6.32E-06	6.5YrCancerDerived_Inh
2266	ALL	353606.5	3793405	6.81E-06	6.5YrCancerDerived_Inh
2267	ALL	353621.5	3793405	7.39E-06	6.5YrCancerDerived_Inh
2268	ALL	353636.5	3793405	8.06E-06	6.5YrCancerDerived_Inh
2269	ALL	353651.5	3793405	8.87E-06	6.5YrCancerDerived_Inh
2270	ALL	353666.5	3793405	9.88E-06	6.5YrCancerDerived_Inh
2271	ALL	353681.5	3793405	1.13E-05	6.5YrCancerDerived_Inh
2272	ALL	353696.5	3793405	1.33E-05	6.5YrCancerDerived_Inh
2273	ALL	353711.5	3793405	1.69E-05	6.5YrCancerDerived_Inh
2274	ALL	353366.5	3793420	3.03E-06	6.5YrCancerDerived_Inh
2275	ALL	353381.5	3793420	3.11E-06	6.5YrCancerDerived_Inh
2276	ALL	353396.5	3793420	3.22E-06	6.5YrCancerDerived_Inh
2277	ALL	353411.5	3793420	3.36E-06	6.5YrCancerDerived_Inh
2278	ALL	353426.5	3793420	3.51E-06	6.5YrCancerDerived_Inh
2279	ALL	353441.5	3793420	3.66E-06	6.5YrCancerDerived_Inh
2280	ALL	353456.5	3793420	3.80E-06	6.5YrCancerDerived_Inh
2281	ALL	353471.5	3793420	3.95E-06	6.5YrCancerDerived_Inh
2282	ALL	353486.5	3793420	4.12E-06	6.5YrCancerDerived_Inh
2283	ALL	353501.5	3793420	4.34E-06	6.5YrCancerDerived_Inh
2284	ALL	353516.5	3793420	4.58E-06	6.5YrCancerDerived_Inh
2285	ALL	353531.5	3793420	4.84E-06	6.5YrCancerDerived_Inh
2286	ALL	353546.5	3793420	5.12E-06	6.5YrCancerDerived_Inh
2287	ALL	353561.5	3793420	5.44E-06	6.5YrCancerDerived_Inh
2288	ALL	353576.5	3793420	5.88E-06	6.5YrCancerDerived_Inh
2289	ALL	353591.5	3793420	6.42E-06	6.5YrCancerDerived_Inh
2290	ALL	353606.5	3793420	6.92E-06	6.5YrCancerDerived_Inh
2291	ALL	353621.5	3793420	7.50E-06	6.5YrCancerDerived_Inh
2292	ALL	353636.5	3793420	8.19E-06	6.5YrCancerDerived_Inh
2293	ALL	353651.5	3793420	9.04E-06	6.5YrCancerDerived_Inh
2294	ALL	353666.5	3793420	1.01E-05	6.5YrCancerDerived_Inh
2295	ALL	353681.5	3793420	1.17E-05	6.5YrCancerDerived_Inh
2296	ALL	353696.5	3793420	1.41E-05	6.5YrCancerDerived_Inh
2297	ALL	353366.5	3793435	3.09E-06	6.5YrCancerDerived_Inh
2298	ALL	353381.5	3793435	3.17E-06	6.5YrCancerDerived_Inh
2299	ALL	353396.5	3793435	3.29E-06	6.5YrCancerDerived_Inh
2300	ALL	353411.5	3793435	3.43E-06	6.5YrCancerDerived_Inh
2301	ALL	353426.5	3793435	3.58E-06	6.5YrCancerDerived_Inh

2302	ALL	353441.5	3793435	3.75E-06	6.5YrCancerDerived_Inh
2303	ALL	353456.5	3793435	3.91E-06	6.5YrCancerDerived_Inh
2304	ALL	353471.5	3793435	4.06E-06	6.5YrCancerDerived_Inh
2305	ALL	353486.5	3793435	4.19E-06	6.5YrCancerDerived_Inh
2306	ALL	353501.5	3793435	4.40E-06	6.5YrCancerDerived_Inh
2307	ALL	353516.5	3793435	4.64E-06	6.5YrCancerDerived_Inh
2308	ALL	353531.5	3793435	4.88E-06	6.5YrCancerDerived_Inh
2309	ALL	353546.5	3793435	5.17E-06	6.5YrCancerDerived_Inh
2310	ALL	353561.5	3793435	5.54E-06	6.5YrCancerDerived_Inh
2311	ALL	353576.5	3793435	5.98E-06	6.5YrCancerDerived_Inh
2312	ALL	353591.5	3793435	6.50E-06	6.5YrCancerDerived_Inh
2313	ALL	353606.5	3793435	7.01E-06	6.5YrCancerDerived_Inh
2314	ALL	353621.5	3793435	7.60E-06	6.5YrCancerDerived_Inh
2315	ALL	353636.5	3793435	8.30E-06	6.5YrCancerDerived_Inh
2316	ALL	353651.5	3793435	9.18E-06	6.5YrCancerDerived_Inh
2317	ALL	353666.5	3793435	1.03E-05	6.5YrCancerDerived_Inh
2318	ALL	353681.5	3793435	1.21E-05	6.5YrCancerDerived_Inh
2319	ALL	353366.5	3793450	3.16E-06	6.5YrCancerDerived_Inh
2320	ALL	353381.5	3793450	3.26E-06	6.5YrCancerDerived_Inh
2321	ALL	353396.5	3793450	3.39E-06	6.5YrCancerDerived_Inh
2322	ALL	353411.5	3793450	3.54E-06	6.5YrCancerDerived_Inh
2323	ALL	353426.5	3793450	3.70E-06	6.5YrCancerDerived_Inh
2324	ALL	353441.5	3793450	3.86E-06	6.5YrCancerDerived_Inh
2325	ALL	353456.5	3793450	4.02E-06	6.5YrCancerDerived_Inh
2326	ALL	353471.5	3793450	4.16E-06	6.5YrCancerDerived_Inh
2327	ALL	353486.5	3793450	4.29E-06	6.5YrCancerDerived_Inh
2328	ALL	353501.5	3793450	4.49E-06	6.5YrCancerDerived_Inh
2329	ALL	353516.5	3793450	4.71E-06	6.5YrCancerDerived_Inh
2330	ALL	353531.5	3793450	4.94E-06	6.5YrCancerDerived_Inh
2331	ALL	353546.5	3793450	5.24E-06	6.5YrCancerDerived_Inh
2332	ALL	353561.5	3793450	5.63E-06	6.5YrCancerDerived_Inh
2333	ALL	353576.5	3793450	6.08E-06	6.5YrCancerDerived_Inh
2334	ALL	353591.5	3793450	6.58E-06	6.5YrCancerDerived_Inh
2335	ALL	353606.5	3793450	7.09E-06	6.5YrCancerDerived_Inh
2336	ALL	353621.5	3793450	7.69E-06	6.5YrCancerDerived_Inh
2337	ALL	353636.5	3793450	8.38E-06	6.5YrCancerDerived_Inh
2338	ALL	353651.5	3793450	9.32E-06	6.5YrCancerDerived_Inh
2339	ALL	353666.5	3793450	1.06E-05	6.5YrCancerDerived_Inh
2340	ALL	353681.5	3793450	1.23E-05	6.5YrCancerDerived_Inh
2341	ALL	353366.5	3793465	3.23E-06	6.5YrCancerDerived_Inh
2342	ALL	353381.5	3793465	3.36E-06	6.5YrCancerDerived_Inh
2343	ALL	353396.5	3793465	3.50E-06	6.5YrCancerDerived_Inh
2344	ALL	353411.5	3793465	3.66E-06	6.5YrCancerDerived_Inh
2345	ALL	353426.5	3793465	3.82E-06	6.5YrCancerDerived_Inh
2346	ALL	353441.5	3793465	3.98E-06	6.5YrCancerDerived_Inh
2347	ALL	353456.5	3793465	4.14E-06	6.5YrCancerDerived_Inh
2348	ALL	353471.5	3793465	4.27E-06	6.5YrCancerDerived_Inh

2349	ALL	353486.5	3793465	4.39E-06	6.5YrCancerDerived_Inh
2350	ALL	353501.5	3793465	4.58E-06	6.5YrCancerDerived_Inh
2351	ALL	353516.5	3793465	4.79E-06	6.5YrCancerDerived_Inh
2352	ALL	353531.5	3793465	5.00E-06	6.5YrCancerDerived_Inh
2353	ALL	353546.5	3793465	5.30E-06	6.5YrCancerDerived_Inh
2354	ALL	353561.5	3793465	5.73E-06	6.5YrCancerDerived_Inh
2355	ALL	353576.5	3793465	6.16E-06	6.5YrCancerDerived_Inh
2356	ALL	353591.5	3793465	6.64E-06	6.5YrCancerDerived_Inh
2357	ALL	353606.5	3793465	7.15E-06	6.5YrCancerDerived_Inh
2358	ALL	353621.5	3793465	7.74E-06	6.5YrCancerDerived_Inh
2359	ALL	353636.5	3793465	8.43E-06	6.5YrCancerDerived_Inh
2360	ALL	353651.5	3793465	9.41E-06	6.5YrCancerDerived_Inh
2361	ALL	353366.5	3793480	3.27E-06	6.5YrCancerDerived_Inh
2362	ALL	353381.5	3793480	3.41E-06	6.5YrCancerDerived_Inh
2363	ALL	353396.5	3793480	3.57E-06	6.5YrCancerDerived_Inh
2364	ALL	353411.5	3793480	3.73E-06	6.5YrCancerDerived_Inh
2365	ALL	353426.5	3793480	3.90E-06	6.5YrCancerDerived_Inh
2366	ALL	353441.5	3793480	4.06E-06	6.5YrCancerDerived_Inh
2367	ALL	353456.5	3793480	4.20E-06	6.5YrCancerDerived_Inh
2368	ALL	353471.5	3793480	4.33E-06	6.5YrCancerDerived_Inh
2369	ALL	353486.5	3793480	4.45E-06	6.5YrCancerDerived_Inh
2370	ALL	353501.5	3793480	4.61E-06	6.5YrCancerDerived_Inh
2371	ALL	353516.5	3793480	4.81E-06	6.5YrCancerDerived_Inh
2372	ALL	353531.5	3793480	5.05E-06	6.5YrCancerDerived_Inh
2373	ALL	353546.5	3793480	5.37E-06	6.5YrCancerDerived_Inh
2374	ALL	353561.5	3793480	5.77E-06	6.5YrCancerDerived_Inh
2375	ALL	353576.5	3793480	6.19E-06	6.5YrCancerDerived_Inh
2376	ALL	353591.5	3793480	6.65E-06	6.5YrCancerDerived_Inh
2377	ALL	353606.5	3793480	7.22E-06	6.5YrCancerDerived_Inh
2378	ALL	353621.5	3793480	7.87E-06	6.5YrCancerDerived_Inh
2379	ALL	353636.5	3793480	8.59E-06	6.5YrCancerDerived_Inh
2380	ALL	353366.5	3793495	3.31E-06	6.5YrCancerDerived_Inh
2381	ALL	353381.5	3793495	3.45E-06	6.5YrCancerDerived_Inh
2382	ALL	353396.5	3793495	3.60E-06	6.5YrCancerDerived_Inh
2383	ALL	353411.5	3793495	3.77E-06	6.5YrCancerDerived_Inh
2384	ALL	353426.5	3793495	3.95E-06	6.5YrCancerDerived_Inh
2385	ALL	353441.5	3793495	4.12E-06	6.5YrCancerDerived_Inh
2386	ALL	353456.5	3793495	4.23E-06	6.5YrCancerDerived_Inh
2387	ALL	353471.5	3793495	4.35E-06	6.5YrCancerDerived_Inh
2388	ALL	353486.5	3793495	4.47E-06	6.5YrCancerDerived_Inh
2389	ALL	353501.5	3793495	4.62E-06	6.5YrCancerDerived_Inh
2390	ALL	353516.5	3793495	4.80E-06	6.5YrCancerDerived_Inh
2391	ALL	353531.5	3793495	5.10E-06	6.5YrCancerDerived_Inh
2392	ALL	353546.5	3793495	5.43E-06	6.5YrCancerDerived_Inh
2393	ALL	353561.5	3793495	5.80E-06	6.5YrCancerDerived_Inh
2394	ALL	353576.5	3793495	6.20E-06	6.5YrCancerDerived_Inh
2395	ALL	353591.5	3793495	6.64E-06	6.5YrCancerDerived_Inh

2396	ALL	353606.5	3793495	7.27E-06	6.5YrCancerDerived_Inh
2397	ALL	353621.5	3793495	8.00E-06	6.5YrCancerDerived_Inh
2398	ALL	353636.5	3793495	8.78E-06	6.5YrCancerDerived_Inh
2399	ALL	353366.5	3793510	3.34E-06	6.5YrCancerDerived_Inh
2400	ALL	353381.5	3793510	3.49E-06	6.5YrCancerDerived_Inh
2401	ALL	353396.5	3793510	3.64E-06	6.5YrCancerDerived_Inh
2402	ALL	353411.5	3793510	3.81E-06	6.5YrCancerDerived_Inh
2403	ALL	353426.5	3793510	4.00E-06	6.5YrCancerDerived_Inh
2404	ALL	353441.5	3793510	4.15E-06	6.5YrCancerDerived_Inh
2405	ALL	353456.5	3793510	4.25E-06	6.5YrCancerDerived_Inh
2406	ALL	353471.5	3793510	4.36E-06	6.5YrCancerDerived_Inh
2407	ALL	353486.5	3793510	4.50E-06	6.5YrCancerDerived_Inh
2408	ALL	353501.5	3793510	4.64E-06	6.5YrCancerDerived_Inh
2409	ALL	353516.5	3793510	4.81E-06	6.5YrCancerDerived_Inh
2410	ALL	353531.5	3793510	5.13E-06	6.5YrCancerDerived_Inh
2411	ALL	353546.5	3793510	5.47E-06	6.5YrCancerDerived_Inh
2412	ALL	353561.5	3793510	5.82E-06	6.5YrCancerDerived_Inh
2413	ALL	353576.5	3793510	6.24E-06	6.5YrCancerDerived_Inh
2414	ALL	353591.5	3793510	6.70E-06	6.5YrCancerDerived_Inh
2415	ALL	353606.5	3793510	7.37E-06	6.5YrCancerDerived_Inh
2416	ALL	353621.5	3793510	8.15E-06	6.5YrCancerDerived_Inh
2417	ALL	353636.5	3793510	8.91E-06	6.5YrCancerDerived_Inh
2418	ALL	353366.5	3793525	3.38E-06	6.5YrCancerDerived_Inh
2419	ALL	353381.5	3793525	3.53E-06	6.5YrCancerDerived_Inh
2420	ALL	353396.5	3793525	3.69E-06	6.5YrCancerDerived_Inh
2421	ALL	353411.5	3793525	3.86E-06	6.5YrCancerDerived_Inh
2422	ALL	353426.5	3793525	4.04E-06	6.5YrCancerDerived_Inh
2423	ALL	353441.5	3793525	4.17E-06	6.5YrCancerDerived_Inh
2424	ALL	353456.5	3793525	4.25E-06	6.5YrCancerDerived_Inh
2425	ALL	353471.5	3793525	4.37E-06	6.5YrCancerDerived_Inh
2426	ALL	353486.5	3793525	4.52E-06	6.5YrCancerDerived_Inh
2427	ALL	353501.5	3793525	4.66E-06	6.5YrCancerDerived_Inh
2428	ALL	353516.5	3793525	4.83E-06	6.5YrCancerDerived_Inh
2429	ALL	353531.5	3793525	5.15E-06	6.5YrCancerDerived_Inh
2430	ALL	353546.5	3793525	5.50E-06	6.5YrCancerDerived_Inh
2431	ALL	353561.5	3793525	5.85E-06	6.5YrCancerDerived_Inh
2432	ALL	353576.5	3793525	6.28E-06	6.5YrCancerDerived_Inh
2433	ALL	353591.5	3793525	6.80E-06	6.5YrCancerDerived_Inh
2434	ALL	353606.5	3793525	7.49E-06	6.5YrCancerDerived_Inh
2435	ALL	353621.5	3793525	8.26E-06	6.5YrCancerDerived_Inh
2436	ALL	353636.5	3793525	9.00E-06	6.5YrCancerDerived_Inh
2437	ALL	353366.5	3793540	3.42E-06	6.5YrCancerDerived_Inh
2438	ALL	353381.5	3793540	3.58E-06	6.5YrCancerDerived_Inh
2439	ALL	353396.5	3793540	3.74E-06	6.5YrCancerDerived_Inh
2440	ALL	353411.5	3793540	3.90E-06	6.5YrCancerDerived_Inh
2441	ALL	353426.5	3793540	4.07E-06	6.5YrCancerDerived_Inh
2442	ALL	353441.5	3793540	4.20E-06	6.5YrCancerDerived_Inh

2443	ALL	353456.5	3793540	4.27E-06	6.5YrCancerDerived_Inh
2444	ALL	353471.5	3793540	4.38E-06	6.5YrCancerDerived_Inh
2445	ALL	353486.5	3793540	4.51E-06	6.5YrCancerDerived_Inh
2446	ALL	353501.5	3793540	4.66E-06	6.5YrCancerDerived_Inh
2447	ALL	353516.5	3793540	4.84E-06	6.5YrCancerDerived_Inh
2448	ALL	353531.5	3793540	5.17E-06	6.5YrCancerDerived_Inh
2449	ALL	353546.5	3793540	5.52E-06	6.5YrCancerDerived_Inh
2450	ALL	353561.5	3793540	5.88E-06	6.5YrCancerDerived_Inh
2451	ALL	353576.5	3793540	6.33E-06	6.5YrCancerDerived_Inh
2452	ALL	353591.5	3793540	6.89E-06	6.5YrCancerDerived_Inh
2453	ALL	353606.5	3793540	7.57E-06	6.5YrCancerDerived_Inh
2454	ALL	353621.5	3793540	8.32E-06	6.5YrCancerDerived_Inh
2455	ALL	353366.5	3793555	3.45E-06	6.5YrCancerDerived_Inh
2456	ALL	353381.5	3793555	3.63E-06	6.5YrCancerDerived_Inh
2457	ALL	353396.5	3793555	3.80E-06	6.5YrCancerDerived_Inh
2458	ALL	353411.5	3793555	3.95E-06	6.5YrCancerDerived_Inh
2459	ALL	353426.5	3793555	4.10E-06	6.5YrCancerDerived_Inh
2460	ALL	353441.5	3793555	4.24E-06	6.5YrCancerDerived_Inh
2461	ALL	353456.5	3793555	4.31E-06	6.5YrCancerDerived_Inh
2462	ALL	353471.5	3793555	4.39E-06	6.5YrCancerDerived_Inh
2463	ALL	353486.5	3793555	4.49E-06	6.5YrCancerDerived_Inh
2464	ALL	353501.5	3793555	4.65E-06	6.5YrCancerDerived_Inh
2465	ALL	353516.5	3793555	4.86E-06	6.5YrCancerDerived_Inh
2466	ALL	353531.5	3793555	5.18E-06	6.5YrCancerDerived_Inh
2467	ALL	353546.5	3793555	5.53E-06	6.5YrCancerDerived_Inh
2468	ALL	353561.5	3793555	5.90E-06	6.5YrCancerDerived_Inh
2469	ALL	353576.5	3793555	6.38E-06	6.5YrCancerDerived_Inh
2470	ALL	353591.5	3793555	6.97E-06	6.5YrCancerDerived_Inh
2471	ALL	353606.5	3793555	7.62E-06	6.5YrCancerDerived_Inh
2472	ALL	353366.5	3793570	3.49E-06	6.5YrCancerDerived_Inh
2473	ALL	353381.5	3793570	3.68E-06	6.5YrCancerDerived_Inh
2474	ALL	353396.5	3793570	3.84E-06	6.5YrCancerDerived_Inh
2475	ALL	353411.5	3793570	3.98E-06	6.5YrCancerDerived_Inh
2476	ALL	353426.5	3793570	4.12E-06	6.5YrCancerDerived_Inh
2477	ALL	353441.5	3793570	4.25E-06	6.5YrCancerDerived_Inh
2478	ALL	353456.5	3793570	4.31E-06	6.5YrCancerDerived_Inh
2479	ALL	353471.5	3793570	4.38E-06	6.5YrCancerDerived_Inh
2480	ALL	353486.5	3793570	4.46E-06	6.5YrCancerDerived_Inh
2481	ALL	353501.5	3793570	4.64E-06	6.5YrCancerDerived_Inh
2482	ALL	353516.5	3793570	4.88E-06	6.5YrCancerDerived_Inh
2483	ALL	353531.5	3793570	5.19E-06	6.5YrCancerDerived_Inh
2484	ALL	353546.5	3793570	5.54E-06	6.5YrCancerDerived_Inh
2485	ALL	353561.5	3793570	5.93E-06	6.5YrCancerDerived_Inh
2486	ALL	353576.5	3793570	6.42E-06	6.5YrCancerDerived_Inh
2487	ALL	353591.5	3793570	7.04E-06	6.5YrCancerDerived_Inh
2488	ALL	353366.5	3793585	3.56E-06	6.5YrCancerDerived_Inh
2489	ALL	353381.5	3793585	3.73E-06	6.5YrCancerDerived_Inh

2490	ALL	353396.5	3793585	3.85E-06	6.5YrCancerDerived_Inh
2491	ALL	353411.5	3793585	3.98E-06	6.5YrCancerDerived_Inh
2492	ALL	353426.5	3793585	4.12E-06	6.5YrCancerDerived_Inh
2493	ALL	353441.5	3793585	4.25E-06	6.5YrCancerDerived_Inh
2494	ALL	353456.5	3793585	4.28E-06	6.5YrCancerDerived_Inh
2495	ALL	353471.5	3793585	4.33E-06	6.5YrCancerDerived_Inh
2496	ALL	353486.5	3793585	4.42E-06	6.5YrCancerDerived_Inh

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torageTanks_SCH_HRAInput.hra

*HARP - HRACalc v19044 10/9/2019 1:43:38 PM - Chronic Risk - Input File: P:\300.Environmental\10649 LADWF

REC	GRP	NETID	X	Y	SCENARIO	MAXHI
2005	ALL		354008	3793427	NonCancer	6.19E-02
2006	ALL		354023	3793427	NonCancer	6.04E-02
2007	ALL		354038	3793427	NonCancer	5.79E-02
2008	ALL		354053	3793427	NonCancer	5.44E-02
2009	ALL		354068	3793427	NonCancer	5.03E-02
2010	ALL		354083	3793427	NonCancer	4.57E-02
1996	ALL		354008	3793412	NonCancer	4.49E-02
1997	ALL		354023	3793412	NonCancer	4.37E-02
1998	ALL		354038	3793412	NonCancer	4.20E-02
2011	ALL		354098	3793427	NonCancer	4.08E-02
1999	ALL		354053	3793412	NonCancer	3.98E-02
2000	ALL		354068	3793412	NonCancer	3.69E-02
2012	ALL		354113	3793427	NonCancer	3.58E-02
1988	ALL		354008	3793397	NonCancer	3.45E-02
2001	ALL		354083	3793412	NonCancer	3.37E-02
1989	ALL		354023	3793397	NonCancer	3.37E-02
1990	ALL		354038	3793397	NonCancer	3.25E-02
1991	ALL		354053	3793397	NonCancer	3.09E-02
2002	ALL		354098	3793412	NonCancer	3.04E-02
2013	ALL		354128	3793427	NonCancer	2.97E-02
1992	ALL		354068	3793397	NonCancer	2.88E-02
1981	ALL		354008	3793382	NonCancer	2.79E-02
1982	ALL		354023	3793382	NonCancer	2.75E-02
2003	ALL		354113	3793412	NonCancer	2.72E-02
1993	ALL		354083	3793397	NonCancer	2.65E-02
1983	ALL		354038	3793382	NonCancer	2.64E-02
1984	ALL		354053	3793382	NonCancer	2.51E-02
1994	ALL		354098	3793397	NonCancer	2.40E-02
2004	ALL		354128	3793412	NonCancer	2.37E-02
1985	ALL		354068	3793382	NonCancer	2.36E-02
1974	ALL		354008	3793367	NonCancer	2.31E-02
1975	ALL		354023	3793367	NonCancer	2.28E-02
1976	ALL		354038	3793367	NonCancer	2.20E-02
1995	ALL		354113	3793397	NonCancer	2.18E-02
1986	ALL		354083	3793382	NonCancer	2.18E-02
1977	ALL		354053	3793367	NonCancer	2.09E-02
1987	ALL		354098	3793382	NonCancer	1.99E-02
1978	ALL		354068	3793367	NonCancer	1.97E-02
1968	ALL		354008	3793352	NonCancer	1.94E-02
1969	ALL		354023	3793352	NonCancer	1.90E-02
1970	ALL		354038	3793352	NonCancer	1.84E-02
1979	ALL		354083	3793367	NonCancer	1.84E-02
1971	ALL		354053	3793352	NonCancer	1.76E-02
1011	ALL		353773.1	3793343	NonCancer	1.70E-02
1980	ALL		354098	3793367	NonCancer	1.69E-02

1962	ALL	353993	3793337	NonCancer	1.68E-02
1972	ALL	354068	3793352	NonCancer	1.67E-02
1963	ALL	354008	3793337	NonCancer	1.66E-02
1964	ALL	354023	3793337	NonCancer	1.62E-02
1965	ALL	354038	3793337	NonCancer	1.58E-02
1973	ALL	354083	3793352	NonCancer	1.57E-02
992	ALL	353773.1	3793318	NonCancer	1.55E-02
1966	ALL	354053	3793337	NonCancer	1.52E-02
1955	ALL	353963	3793322	NonCancer	1.48E-02
811	ALL	353773.1	3793143	NonCancer	1.48E-02
1956	ALL	353978	3793322	NonCancer	1.47E-02
954	ALL	353773.1	3793268	NonCancer	1.46E-02
1957	ALL	353993	3793322	NonCancer	1.46E-02
1958	ALL	354008	3793322	NonCancer	1.44E-02
1967	ALL	354068	3793337	NonCancer	1.44E-02
747	ALL	353773.1	3793093	NonCancer	1.43E-02
2273	ALL	353711.5	3793405	NonCancer	1.41E-02
1959	ALL	354023	3793322	NonCancer	1.40E-02
907	ALL	353773.1	3793218	NonCancer	1.40E-02
715	ALL	353773.1	3793068	NonCancer	1.40E-02
2201	ALL	353726.5	3793360	NonCancer	1.39E-02
1012	ALL	353798.1	3793343	NonCancer	1.39E-02
875	ALL	353773.1	3793193	NonCancer	1.39E-02
683	ALL	353773.1	3793043	NonCancer	1.37E-02
973	ALL	353773.1	3793293	NonCancer	1.37E-02
1960	ALL	354038	3793322	NonCancer	1.37E-02
1013	ALL	353823.1	3793343	NonCancer	1.35E-02
843	ALL	353773.1	3793168	NonCancer	1.35E-02
652	ALL	353773.1	3793018	NonCancer	1.35E-02
621	ALL	353773.1	3792993	NonCancer	1.32E-02
1961	ALL	354053	3793322	NonCancer	1.32E-02
993	ALL	353798.1	3793318	NonCancer	1.32E-02
1930	ALL	353740.5	3793235	NonCancer	1.31E-02
2249	ALL	353711.5	3793390	NonCancer	1.30E-02
1949	ALL	353963	3793307	NonCancer	1.30E-02
779	ALL	353773.1	3793118	NonCancer	1.30E-02
1924	ALL	353740.5	3793210	NonCancer	1.30E-02
2176	ALL	353726.5	3793345	NonCancer	1.30E-02
1950	ALL	353978	3793307	NonCancer	1.30E-02
590	ALL	353773.1	3792968	NonCancer	1.29E-02
1951	ALL	353993	3793307	NonCancer	1.29E-02
1894	ALL	353740.5	3793185	NonCancer	1.29E-02
1864	ALL	353740.5	3793160	NonCancer	1.28E-02
1834	ALL	353740.5	3793135	NonCancer	1.27E-02
1952	ALL	354008	3793307	NonCancer	1.27E-02
559	ALL	353773.1	3792943	NonCancer	1.27E-02
1804	ALL	353740.5	3793110	NonCancer	1.26E-02

1774	ALL	353740.5	3793085	NonCancer	1.26E-02
1744	ALL	353740.5	3793060	NonCancer	1.25E-02
974	ALL	353798.1	3793293	NonCancer	1.25E-02
1953	ALL	354023	3793307	NonCancer	1.24E-02
528	ALL	353773.1	3792918	NonCancer	1.24E-02
2151	ALL	353726.5	3793330	NonCancer	1.23E-02
2225	ALL	353711.5	3793375	NonCancer	1.21E-02
1046	ALL	354173.1	3793393	NonCancer	1.21E-02
994	ALL	353823.1	3793318	NonCancer	1.21E-02
497	ALL	353773.1	3792893	NonCancer	1.21E-02
1954	ALL	354038	3793307	NonCancer	1.20E-02
955	ALL	353798.1	3793268	NonCancer	1.19E-02
2126	ALL	353726.5	3793315	NonCancer	1.18E-02
466	ALL	353773.1	3792868	NonCancer	1.18E-02
2296	ALL	353696.5	3793420	NonCancer	1.17E-02
1943	ALL	353948	3793292	NonCancer	1.17E-02
1944	ALL	353963	3793292	NonCancer	1.17E-02
435	ALL	353773.1	3792843	NonCancer	1.17E-02
1945	ALL	353978	3793292	NonCancer	1.16E-02
1942	ALL	353933	3793292	NonCancer	1.15E-02
1946	ALL	353993	3793292	NonCancer	1.15E-02
2101	ALL	353726.5	3793300	NonCancer	1.15E-02
404	ALL	353773.1	3792818	NonCancer	1.15E-02
2200	ALL	353711.5	3793360	NonCancer	1.14E-02
1947	ALL	354008	3793292	NonCancer	1.13E-02
1062	ALL	354198.1	3793418	NonCancer	1.13E-02
373	ALL	353773.1	3792793	NonCancer	1.13E-02
2076	ALL	353726.5	3793285	NonCancer	1.12E-02
2272	ALL	353696.5	3793405	NonCancer	1.11E-02
1948	ALL	354023	3793292	NonCancer	1.11E-02
975	ALL	353823.1	3793293	NonCancer	1.11E-02
2051	ALL	353726.5	3793270	NonCancer	1.10E-02
342	ALL	353773.1	3792768	NonCancer	1.10E-02
908	ALL	353798.1	3793218	NonCancer	1.08E-02
2175	ALL	353711.5	3793345	NonCancer	1.07E-02
311	ALL	353773.1	3792743	NonCancer	1.07E-02
2248	ALL	353696.5	3793390	NonCancer	1.06E-02
1939	ALL	353963	3793277	NonCancer	1.05E-02
1938	ALL	353948	3793277	NonCancer	1.05E-02
1940	ALL	353978	3793277	NonCancer	1.05E-02
1030	ALL	354173.1	3793368	NonCancer	1.05E-02
1937	ALL	353933	3793277	NonCancer	1.04E-02
1941	ALL	353993	3793277	NonCancer	1.04E-02
280	ALL	353773.1	3792718	NonCancer	1.04E-02
1936	ALL	353918	3793277	NonCancer	1.03E-02
2150	ALL	353711.5	3793330	NonCancer	1.03E-02
2340	ALL	353681.5	3793450	NonCancer	1.03E-02

956	ALL	353823.1	3793268	NonCancer	1.02E-02
844	ALL	353798.1	3793168	NonCancer	1.02E-02
2224	ALL	353696.5	3793375	NonCancer	1.01E-02
2318	ALL	353681.5	3793435	NonCancer	1.01E-02
876	ALL	353798.1	3793193	NonCancer	1.01E-02
1047	ALL	354198.1	3793393	NonCancer	9.98E-03
812	ALL	353798.1	3793143	NonCancer	9.96E-03
2125	ALL	353711.5	3793315	NonCancer	9.96E-03
249	ALL	353773.1	3792693	NonCancer	9.85E-03
2295	ALL	353681.5	3793420	NonCancer	9.76E-03
2100	ALL	353711.5	3793300	NonCancer	9.68E-03
780	ALL	353798.1	3793118	NonCancer	9.67E-03
2199	ALL	353696.5	3793360	NonCancer	9.66E-03
1935	ALL	353963	3793262	NonCancer	9.60E-03
1934	ALL	353948	3793262	NonCancer	9.59E-03
1933	ALL	353933	3793262	NonCancer	9.54E-03
1932	ALL	353918	3793262	NonCancer	9.48E-03
1929	ALL	353715.5	3793235	NonCancer	9.47E-03
2075	ALL	353711.5	3793285	NonCancer	9.47E-03
748	ALL	353798.1	3793093	NonCancer	9.42E-03
2271	ALL	353681.5	3793405	NonCancer	9.41E-03
1923	ALL	353715.5	3793210	NonCancer	9.37E-03
2050	ALL	353711.5	3793270	NonCancer	9.31E-03
2174	ALL	353696.5	3793345	NonCancer	9.25E-03
716	ALL	353798.1	3793068	NonCancer	9.23E-03
1893	ALL	353715.5	3793185	NonCancer	9.22E-03
1063	ALL	354223.1	3793418	NonCancer	9.22E-03
1014	ALL	354173.1	3793343	NonCancer	9.13E-03
2247	ALL	353681.5	3793390	NonCancer	9.10E-03
1863	ALL	353715.5	3793160	NonCancer	9.08E-03
684	ALL	353798.1	3793043	NonCancer	9.07E-03
909	ALL	353823.1	3793218	NonCancer	9.02E-03
218	ALL	353773.1	3792668	NonCancer	9.01E-03
2149	ALL	353696.5	3793330	NonCancer	8.96E-03
1833	ALL	353715.5	3793135	NonCancer	8.96E-03
1031	ALL	354198.1	3793368	NonCancer	8.91E-03
1803	ALL	353715.5	3793110	NonCancer	8.87E-03
653	ALL	353798.1	3793018	NonCancer	8.86E-03
2339	ALL	353666.5	3793450	NonCancer	8.82E-03
2223	ALL	353681.5	3793375	NonCancer	8.79E-03
1773	ALL	353715.5	3793085	NonCancer	8.76E-03
2124	ALL	353696.5	3793315	NonCancer	8.72E-03
622	ALL	353798.1	3792993	NonCancer	8.66E-03
1743	ALL	353715.5	3793060	NonCancer	8.64E-03
2317	ALL	353666.5	3793435	NonCancer	8.60E-03
1714	ALL	353715.5	3793035	NonCancer	8.53E-03
2099	ALL	353696.5	3793300	NonCancer	8.52E-03

2198	ALL	353681.5	3793360	NonCancer	8.47E-03
1685	ALL	353715.5	3793010	NonCancer	8.46E-03
591	ALL	353798.1	3792968	NonCancer	8.46E-03
2294	ALL	353666.5	3793420	NonCancer	8.44E-03
1048	ALL	354223.1	3793393	NonCancer	8.40E-03
877	ALL	353823.1	3793193	NonCancer	8.40E-03
1656	ALL	353715.5	3792985	NonCancer	8.38E-03
2074	ALL	353696.5	3793285	NonCancer	8.36E-03
1627	ALL	353715.5	3792960	NonCancer	8.32E-03
1598	ALL	353715.5	3792935	NonCancer	8.25E-03
560	ALL	353798.1	3792943	NonCancer	8.24E-03
2270	ALL	353666.5	3793405	NonCancer	8.24E-03
910	ALL	353848.1	3793218	NonCancer	8.21E-03
845	ALL	353823.1	3793168	NonCancer	8.20E-03
2049	ALL	353696.5	3793270	NonCancer	8.20E-03
1569	ALL	353715.5	3792910	NonCancer	8.19E-03
2173	ALL	353681.5	3793345	NonCancer	8.17E-03
1540	ALL	353715.5	3792885	NonCancer	8.12E-03
2246	ALL	353666.5	3793390	NonCancer	8.03E-03
1511	ALL	353715.5	3792860	NonCancer	8.01E-03
995	ALL	354173.1	3793318	NonCancer	8.01E-03
529	ALL	353798.1	3792918	NonCancer	8.00E-03
813	ALL	353823.1	3793143	NonCancer	7.97E-03
2148	ALL	353681.5	3793330	NonCancer	7.96E-03
1015	ALL	354198.1	3793343	NonCancer	7.92E-03
1482	ALL	353715.5	3792835	NonCancer	7.92E-03
911	ALL	353873.1	3793218	NonCancer	7.85E-03
2360	ALL	353651.5	3793465	NonCancer	7.84E-03
2222	ALL	353666.5	3793375	NonCancer	7.82E-03
1453	ALL	353715.5	3792810	NonCancer	7.82E-03
498	ALL	353798.1	3792893	NonCancer	7.81E-03
2123	ALL	353681.5	3793315	NonCancer	7.78E-03
1064	ALL	354248.1	3793418	NonCancer	7.77E-03
2338	ALL	353651.5	3793450	NonCancer	7.77E-03
912	ALL	353898.1	3793218	NonCancer	7.72E-03
1931	ALL	353923.3	3793217	NonCancer	7.70E-03
1424	ALL	353715.5	3792785	NonCancer	7.69E-03
781	ALL	353823.1	3793118	NonCancer	7.68E-03
467	ALL	353798.1	3792868	NonCancer	7.67E-03
913	ALL	353948.1	3793218	NonCancer	7.67E-03
2316	ALL	353651.5	3793435	NonCancer	7.66E-03
2098	ALL	353681.5	3793300	NonCancer	7.63E-03
878	ALL	353848.1	3793193	NonCancer	7.62E-03
1032	ALL	354223.1	3793368	NonCancer	7.60E-03
2197	ALL	353666.5	3793360	NonCancer	7.58E-03
914	ALL	353973.1	3793218	NonCancer	7.57E-03
1395	ALL	353715.5	3792760	NonCancer	7.57E-03

2293	ALL	353651.5	3793420	NonCancer	7.54E-03
436	ALL	353798.1	3792843	NonCancer	7.53E-03
1928	ALL	353690.5	3793235	NonCancer	7.52E-03
2436	ALL	353636.5	3793525	NonCancer	7.51E-03
2073	ALL	353681.5	3793285	NonCancer	7.49E-03
915	ALL	353998.1	3793218	NonCancer	7.46E-03
2417	ALL	353636.5	3793510	NonCancer	7.43E-03
749	ALL	353823.1	3793093	NonCancer	7.42E-03
2269	ALL	353651.5	3793405	NonCancer	7.39E-03
405	ALL	353798.1	3792818	NonCancer	7.38E-03
1922	ALL	353690.5	3793210	NonCancer	7.37E-03
1366	ALL	353715.5	3792735	NonCancer	7.36E-03
2172	ALL	353666.5	3793345	NonCancer	7.34E-03
2048	ALL	353681.5	3793270	NonCancer	7.33E-03
187	ALL	353773.1	3792643	NonCancer	7.33E-03
2398	ALL	353636.5	3793495	NonCancer	7.32E-03
916	ALL	354023.1	3793218	NonCancer	7.28E-03
879	ALL	353873.1	3793193	NonCancer	7.25E-03
2245	ALL	353651.5	3793390	NonCancer	7.24E-03
1892	ALL	353690.5	3793185	NonCancer	7.23E-03
1049	ALL	354248.1	3793393	NonCancer	7.23E-03
846	ALL	353848.1	3793168	NonCancer	7.20E-03
374	ALL	353798.1	3792793	NonCancer	7.19E-03
717	ALL	353823.1	3793068	NonCancer	7.19E-03
2147	ALL	353666.5	3793330	NonCancer	7.18E-03
2379	ALL	353636.5	3793480	NonCancer	7.16E-03
1862	ALL	353690.5	3793160	NonCancer	7.10E-03
996	ALL	354198.1	3793318	NonCancer	7.09E-03
2221	ALL	353651.5	3793375	NonCancer	7.08E-03
976	ALL	354173.1	3793293	NonCancer	7.05E-03
880	ALL	353898.1	3793193	NonCancer	7.04E-03
1337	ALL	353715.5	3792710	NonCancer	7.04E-03
2122	ALL	353666.5	3793315	NonCancer	7.04E-03
2359	ALL	353636.5	3793465	NonCancer	7.03E-03
917	ALL	354048.1	3793218	NonCancer	7.00E-03
1832	ALL	353690.5	3793135	NonCancer	6.99E-03
2337	ALL	353636.5	3793450	NonCancer	6.99E-03
685	ALL	353823.1	3793043	NonCancer	6.99E-03
343	ALL	353798.1	3792768	NonCancer	6.98E-03
814	ALL	353848.1	3793143	NonCancer	6.95E-03
2454	ALL	353621.5	3793540	NonCancer	6.94E-03
881	ALL	353923.1	3793193	NonCancer	6.93E-03
2315	ALL	353636.5	3793435	NonCancer	6.92E-03
2097	ALL	353666.5	3793300	NonCancer	6.90E-03
1016	ALL	354223.1	3793343	NonCancer	6.90E-03
882	ALL	353948.1	3793193	NonCancer	6.90E-03
2435	ALL	353621.5	3793525	NonCancer	6.89E-03

1802	ALL	353690.5	3793110	NonCancer	6.88E-03
2196	ALL	353651.5	3793360	NonCancer	6.87E-03
2292	ALL	353636.5	3793420	NonCancer	6.83E-03
2416	ALL	353621.5	3793510	NonCancer	6.79E-03
654	ALL	353823.1	3793018	NonCancer	6.79E-03
2072	ALL	353666.5	3793285	NonCancer	6.78E-03
883	ALL	353973.1	3793193	NonCancer	6.78E-03
1772	ALL	353690.5	3793085	NonCancer	6.78E-03
847	ALL	353873.1	3793168	NonCancer	6.77E-03
312	ALL	353798.1	3792743	NonCancer	6.74E-03
2268	ALL	353636.5	3793405	NonCancer	6.72E-03
2397	ALL	353621.5	3793495	NonCancer	6.67E-03
1033	ALL	354248.1	3793368	NonCancer	6.67E-03
2171	ALL	353651.5	3793345	NonCancer	6.67E-03
1742	ALL	353690.5	3793060	NonCancer	6.67E-03
1065	ALL	354273.1	3793418	NonCancer	6.67E-03
884	ALL	353998.1	3793193	NonCancer	6.66E-03
782	ALL	353848.1	3793118	NonCancer	6.66E-03
918	ALL	354073.1	3793218	NonCancer	6.65E-03
2047	ALL	353666.5	3793270	NonCancer	6.63E-03
623	ALL	353823.1	3792993	NonCancer	6.61E-03
2244	ALL	353636.5	3793390	NonCancer	6.60E-03
2378	ALL	353621.5	3793480	NonCancer	6.56E-03
1713	ALL	353690.5	3793035	NonCancer	6.55E-03
2146	ALL	353651.5	3793330	NonCancer	6.54E-03
848	ALL	353898.1	3793168	NonCancer	6.50E-03
1308	ALL	353715.5	3792685	NonCancer	6.49E-03
885	ALL	354023.1	3793193	NonCancer	6.49E-03
1684	ALL	353690.5	3793010	NonCancer	6.49E-03
2220	ALL	353636.5	3793375	NonCancer	6.47E-03
281	ALL	353798.1	3792718	NonCancer	6.46E-03
2358	ALL	353621.5	3793465	NonCancer	6.46E-03
592	ALL	353823.1	3792968	NonCancer	6.42E-03
815	ALL	353873.1	3793143	NonCancer	6.42E-03
2121	ALL	353651.5	3793315	NonCancer	6.42E-03
2336	ALL	353621.5	3793450	NonCancer	6.41E-03
1655	ALL	353690.5	3792985	NonCancer	6.39E-03
750	ALL	353848.1	3793093	NonCancer	6.39E-03
2471	ALL	353606.5	3793555	NonCancer	6.35E-03
977	ALL	354198.1	3793293	NonCancer	6.34E-03
2314	ALL	353621.5	3793435	NonCancer	6.34E-03
849	ALL	353923.1	3793168	NonCancer	6.34E-03
919	ALL	354098.1	3793218	NonCancer	6.33E-03
2453	ALL	353606.5	3793540	NonCancer	6.32E-03
997	ALL	354223.1	3793318	NonCancer	6.31E-03
1050	ALL	354273.1	3793393	NonCancer	6.30E-03
2096	ALL	353651.5	3793300	NonCancer	6.30E-03

1626	ALL	353690.5	3792960	NonCancer	6.30E-03
1927	ALL	353665.5	3793235	NonCancer	6.30E-03
2195	ALL	353636.5	3793360	NonCancer	6.28E-03
957	ALL	354173.1	3793268	NonCancer	6.26E-03
850	ALL	353948.1	3793168	NonCancer	6.26E-03
2291	ALL	353621.5	3793420	NonCancer	6.25E-03
886	ALL	354048.1	3793193	NonCancer	6.25E-03
2434	ALL	353606.5	3793525	NonCancer	6.25E-03
561	ALL	353823.1	3792943	NonCancer	6.24E-03
1597	ALL	353690.5	3792935	NonCancer	6.22E-03
2071	ALL	353651.5	3793285	NonCancer	6.19E-03
2267	ALL	353621.5	3793405	NonCancer	6.16E-03
1017	ALL	354248.1	3793343	NonCancer	6.16E-03
1568	ALL	353690.5	3792910	NonCancer	6.15E-03
1921	ALL	353665.5	3793210	NonCancer	6.15E-03
2415	ALL	353606.5	3793510	NonCancer	6.15E-03
851	ALL	353973.1	3793168	NonCancer	6.13E-03
718	ALL	353848.1	3793068	NonCancer	6.13E-03
2170	ALL	353636.5	3793345	NonCancer	6.11E-03
250	ALL	353798.1	3792693	NonCancer	6.10E-03
783	ALL	353873.1	3793118	NonCancer	6.08E-03
1539	ALL	353690.5	3792885	NonCancer	6.07E-03
530	ALL	353823.1	3792918	NonCancer	6.06E-03
2396	ALL	353606.5	3793495	NonCancer	6.06E-03
816	ALL	353898.1	3793143	NonCancer	6.06E-03
2243	ALL	353621.5	3793390	NonCancer	6.06E-03
2046	ALL	353651.5	3793270	NonCancer	6.05E-03
1891	ALL	353665.5	3793185	NonCancer	6.03E-03
2377	ALL	353606.5	3793480	NonCancer	6.02E-03
852	ALL	353998.1	3793168	NonCancer	6.02E-03
2145	ALL	353636.5	3793330	NonCancer	6.00E-03
920	ALL	354123.1	3793218	NonCancer	5.97E-03
2357	ALL	353606.5	3793465	NonCancer	5.96E-03
1510	ALL	353690.5	3792860	NonCancer	5.96E-03
887	ALL	354073.1	3793193	NonCancer	5.95E-03
2219	ALL	353621.5	3793375	NonCancer	5.95E-03
1861	ALL	353665.5	3793160	NonCancer	5.92E-03
1034	ALL	354273.1	3793368	NonCancer	5.91E-03
499	ALL	353823.1	3792893	NonCancer	5.91E-03
686	ALL	353848.1	3793043	NonCancer	5.91E-03
2335	ALL	353606.5	3793450	NonCancer	5.91E-03
2120	ALL	353636.5	3793315	NonCancer	5.89E-03
2487	ALL	353591.5	3793570	NonCancer	5.87E-03
853	ALL	354023.1	3793168	NonCancer	5.86E-03
817	ALL	353923.1	3793143	NonCancer	5.85E-03
1481	ALL	353690.5	3792835	NonCancer	5.85E-03
2313	ALL	353606.5	3793435	NonCancer	5.85E-03

2470	ALL	353591.5	3793555	NonCancer	5.81E-03
1066	ALL	354298.1	3793418	NonCancer	5.81E-03
1831	ALL	353665.5	3793135	NonCancer	5.80E-03
2095	ALL	353636.5	3793300	NonCancer	5.79E-03
2194	ALL	353621.5	3793360	NonCancer	5.78E-03
468	ALL	353823.1	3792868	NonCancer	5.78E-03
2290	ALL	353606.5	3793420	NonCancer	5.77E-03
2452	ALL	353591.5	3793540	NonCancer	5.74E-03
751	ALL	353873.1	3793093	NonCancer	5.74E-03
1452	ALL	353690.5	3792810	NonCancer	5.74E-03
818	ALL	353948.1	3793143	NonCancer	5.73E-03
978	ALL	354223.1	3793293	NonCancer	5.73E-03
1801	ALL	353665.5	3793110	NonCancer	5.71E-03
958	ALL	354198.1	3793268	NonCancer	5.70E-03
2070	ALL	353636.5	3793285	NonCancer	5.70E-03
655	ALL	353848.1	3793018	NonCancer	5.69E-03
784	ALL	353898.1	3793118	NonCancer	5.69E-03
998	ALL	354248.1	3793318	NonCancer	5.69E-03
2266	ALL	353606.5	3793405	NonCancer	5.68E-03
2433	ALL	353591.5	3793525	NonCancer	5.67E-03
888	ALL	354098.1	3793193	NonCancer	5.67E-03
938	ALL	354173.1	3793243	NonCancer	5.66E-03
854	ALL	354048.1	3793168	NonCancer	5.65E-03
437	ALL	353823.1	3792843	NonCancer	5.65E-03
2169	ALL	353621.5	3793345	NonCancer	5.63E-03
819	ALL	353973.1	3793143	NonCancer	5.61E-03
1423	ALL	353690.5	3792785	NonCancer	5.61E-03
1771	ALL	353665.5	3793085	NonCancer	5.60E-03
1279	ALL	353715.5	3792660	NonCancer	5.59E-03
2414	ALL	353591.5	3793510	NonCancer	5.59E-03
2242	ALL	353606.5	3793390	NonCancer	5.57E-03
2045	ALL	353636.5	3793270	NonCancer	5.57E-03
219	ALL	353798.1	3792668	NonCancer	5.56E-03
2376	ALL	353591.5	3793480	NonCancer	5.54E-03
1051	ALL	354298.1	3793393	NonCancer	5.54E-03
921	ALL	354148.1	3793218	NonCancer	5.54E-03
2395	ALL	353591.5	3793495	NonCancer	5.54E-03
2356	ALL	353591.5	3793465	NonCancer	5.53E-03
2144	ALL	353621.5	3793330	NonCancer	5.53E-03
1018	ALL	354273.1	3793343	NonCancer	5.52E-03
719	ALL	353873.1	3793068	NonCancer	5.51E-03
624	ALL	353848.1	3792993	NonCancer	5.50E-03
406	ALL	353823.1	3792818	NonCancer	5.50E-03
1741	ALL	353665.5	3793060	NonCancer	5.50E-03
820	ALL	353998.1	3793143	NonCancer	5.49E-03
2334	ALL	353591.5	3793450	NonCancer	5.48E-03
2218	ALL	353606.5	3793375	NonCancer	5.46E-03

785	ALL	353923.1	3793118	NonCancer	5.45E-03
1926	ALL	353640.5	3793235	NonCancer	5.44E-03
2119	ALL	353621.5	3793315	NonCancer	5.44E-03
1394	ALL	353690.5	3792760	NonCancer	5.44E-03
2312	ALL	353591.5	3793435	NonCancer	5.42E-03
889	ALL	354123.1	3793193	NonCancer	5.40E-03
855	ALL	354073.1	3793168	NonCancer	5.40E-03
1712	ALL	353665.5	3793035	NonCancer	5.39E-03
2486	ALL	353576.5	3793570	NonCancer	5.36E-03
2094	ALL	353621.5	3793300	NonCancer	5.35E-03
593	ALL	353848.1	3792968	NonCancer	5.35E-03
2289	ALL	353591.5	3793420	NonCancer	5.35E-03
375	ALL	353823.1	3792793	NonCancer	5.35E-03
821	ALL	354023.1	3793143	NonCancer	5.34E-03
1683	ALL	353665.5	3793010	NonCancer	5.33E-03
752	ALL	353898.1	3793093	NonCancer	5.33E-03
2193	ALL	353606.5	3793360	NonCancer	5.33E-03
1920	ALL	353640.5	3793210	NonCancer	5.32E-03
2469	ALL	353576.5	3793555	NonCancer	5.32E-03
786	ALL	353948.1	3793118	NonCancer	5.30E-03
687	ALL	353873.1	3793043	NonCancer	5.28E-03
2451	ALL	353576.5	3793540	NonCancer	5.28E-03
2069	ALL	353621.5	3793285	NonCancer	5.27E-03
2265	ALL	353591.5	3793405	NonCancer	5.27E-03
1035	ALL	354298.1	3793368	NonCancer	5.26E-03
2432	ALL	353576.5	3793525	NonCancer	5.24E-03
1654	ALL	353665.5	3792985	NonCancer	5.22E-03
1365	ALL	353690.5	3792735	NonCancer	5.22E-03
979	ALL	354248.1	3793293	NonCancer	5.21E-03
939	ALL	354198.1	3793243	NonCancer	5.21E-03
959	ALL	354223.1	3793268	NonCancer	5.21E-03
2168	ALL	353606.5	3793345	NonCancer	5.20E-03
1890	ALL	353640.5	3793185	NonCancer	5.20E-03
2413	ALL	353576.5	3793510	NonCancer	5.20E-03
562	ALL	353848.1	3792943	NonCancer	5.18E-03
787	ALL	353973.1	3793118	NonCancer	5.18E-03
2394	ALL	353576.5	3793495	NonCancer	5.17E-03
2375	ALL	353576.5	3793480	NonCancer	5.16E-03
922	ALL	354173.1	3793218	NonCancer	5.16E-03
822	ALL	354048.1	3793143	NonCancer	5.16E-03
344	ALL	353823.1	3792768	NonCancer	5.16E-03
2044	ALL	353621.5	3793270	NonCancer	5.15E-03
856	ALL	354098.1	3793168	NonCancer	5.15E-03
2355	ALL	353576.5	3793465	NonCancer	5.14E-03
2241	ALL	353591.5	3793390	NonCancer	5.13E-03
999	ALL	354273.1	3793318	NonCancer	5.13E-03
1625	ALL	353665.5	3792960	NonCancer	5.13E-03

1067	ALL	354323.1	3793418	NonCancer	5.12E-03
753	ALL	353923.1	3793093	NonCancer	5.11E-03
2143	ALL	353606.5	3793330	NonCancer	5.11E-03
720	ALL	353898.1	3793068	NonCancer	5.10E-03
1860	ALL	353640.5	3793160	NonCancer	5.10E-03
2333	ALL	353576.5	3793450	NonCancer	5.06E-03
788	ALL	353998.1	3793118	NonCancer	5.05E-03
656	ALL	353873.1	3793018	NonCancer	5.05E-03
1596	ALL	353665.5	3792935	NonCancer	5.04E-03
890	ALL	354148.1	3793193	NonCancer	5.04E-03
2118	ALL	353606.5	3793315	NonCancer	5.02E-03
531	ALL	353848.1	3792918	NonCancer	5.02E-03
2217	ALL	353591.5	3793375	NonCancer	5.01E-03
1830	ALL	353640.5	3793135	NonCancer	4.99E-03
2311	ALL	353576.5	3793435	NonCancer	4.98E-03
1567	ALL	353665.5	3792910	NonCancer	4.96E-03
754	ALL	353948.1	3793093	NonCancer	4.96E-03
1019	ALL	354298.1	3793343	NonCancer	4.95E-03
2093	ALL	353606.5	3793300	NonCancer	4.94E-03
823	ALL	354073.1	3793143	NonCancer	4.94E-03
313	ALL	353823.1	3792743	NonCancer	4.94E-03
2485	ALL	353561.5	3793570	NonCancer	4.94E-03
857	ALL	354123.1	3793168	NonCancer	4.93E-03
1052	ALL	354323.1	3793393	NonCancer	4.93E-03
2468	ALL	353561.5	3793555	NonCancer	4.92E-03
2192	ALL	353591.5	3793360	NonCancer	4.92E-03
1336	ALL	353690.5	3792710	NonCancer	4.91E-03
789	ALL	354023.1	3793118	NonCancer	4.91E-03
2288	ALL	353576.5	3793420	NonCancer	4.90E-03
2450	ALL	353561.5	3793540	NonCancer	4.90E-03
1800	ALL	353640.5	3793110	NonCancer	4.90E-03
1538	ALL	353665.5	3792885	NonCancer	4.88E-03
2431	ALL	353561.5	3793525	NonCancer	4.87E-03
2068	ALL	353606.5	3793285	NonCancer	4.87E-03
688	ALL	353898.1	3793043	NonCancer	4.87E-03
2412	ALL	353561.5	3793510	NonCancer	4.86E-03
500	ALL	353848.1	3792893	NonCancer	4.85E-03
625	ALL	353873.1	3792993	NonCancer	4.85E-03
2393	ALL	353561.5	3793495	NonCancer	4.83E-03
2167	ALL	353591.5	3793345	NonCancer	4.83E-03
156	ALL	353773.1	3792618	NonCancer	4.83E-03
755	ALL	353973.1	3793093	NonCancer	4.83E-03
721	ALL	353923.1	3793068	NonCancer	4.82E-03
2264	ALL	353576.5	3793405	NonCancer	4.82E-03
2374	ALL	353561.5	3793480	NonCancer	4.81E-03
1770	ALL	353640.5	3793085	NonCancer	4.80E-03
1925	ALL	353615.5	3793235	NonCancer	4.80E-03

940	ALL	354223.1	3793243	NonCancer	4.80E-03
1509	ALL	353665.5	3792860	NonCancer	4.78E-03
923	ALL	354198.1	3793218	NonCancer	4.78E-03
2043	ALL	353606.5	3793270	NonCancer	4.78E-03
960	ALL	354248.1	3793268	NonCancer	4.77E-03
2354	ALL	353561.5	3793465	NonCancer	4.77E-03
980	ALL	354273.1	3793293	NonCancer	4.76E-03
891	ALL	354173.1	3793193	NonCancer	4.75E-03
790	ALL	354048.1	3793118	NonCancer	4.75E-03
188	ALL	353798.1	3792643	NonCancer	4.74E-03
824	ALL	354098.1	3793143	NonCancer	4.73E-03
2142	ALL	353591.5	3793330	NonCancer	4.73E-03
2240	ALL	353576.5	3793390	NonCancer	4.73E-03
469	ALL	353848.1	3792868	NonCancer	4.72E-03
282	ALL	353823.1	3792718	NonCancer	4.72E-03
1036	ALL	354323.1	3793368	NonCancer	4.71E-03
1740	ALL	353640.5	3793060	NonCancer	4.71E-03
756	ALL	353998.1	3793093	NonCancer	4.70E-03
594	ALL	353873.1	3792968	NonCancer	4.70E-03
2332	ALL	353561.5	3793450	NonCancer	4.70E-03
1919	ALL	353615.5	3793210	NonCancer	4.69E-03
1480	ALL	353665.5	3792835	NonCancer	4.67E-03
2117	ALL	353591.5	3793315	NonCancer	4.64E-03
2216	ALL	353576.5	3793375	NonCancer	4.64E-03
657	ALL	353898.1	3793018	NonCancer	4.63E-03
438	ALL	353848.1	3792843	NonCancer	4.63E-03
1000	ALL	354298.1	3793318	NonCancer	4.63E-03
858	ALL	354148.1	3793168	NonCancer	4.62E-03
722	ALL	353948.1	3793068	NonCancer	4.62E-03
2484	ALL	353546.5	3793570	NonCancer	4.62E-03
1711	ALL	353640.5	3793035	NonCancer	4.62E-03
2310	ALL	353561.5	3793435	NonCancer	4.62E-03
2467	ALL	353546.5	3793555	NonCancer	4.61E-03
2449	ALL	353546.5	3793540	NonCancer	4.60E-03
1889	ALL	353615.5	3793185	NonCancer	4.59E-03
2430	ALL	353546.5	3793525	NonCancer	4.58E-03
689	ALL	353923.1	3793043	NonCancer	4.58E-03
2191	ALL	353576.5	3793360	NonCancer	4.58E-03
791	ALL	354073.1	3793118	NonCancer	4.57E-03
757	ALL	354023.1	3793093	NonCancer	4.57E-03
2092	ALL	353591.5	3793300	NonCancer	4.56E-03
2411	ALL	353546.5	3793510	NonCancer	4.56E-03
1068	ALL	354348.1	3793418	NonCancer	4.56E-03
1451	ALL	353665.5	3792810	NonCancer	4.54E-03
563	ALL	353873.1	3792943	NonCancer	4.54E-03
2287	ALL	353561.5	3793420	NonCancer	4.53E-03
825	ALL	354123.1	3793143	NonCancer	4.53E-03

1682	ALL	353640.5	3793010	NonCancer	4.53E-03
2392	ALL	353546.5	3793495	NonCancer	4.53E-03
2166	ALL	353576.5	3793345	NonCancer	4.51E-03
407	ALL	353848.1	3792818	NonCancer	4.50E-03
2067	ALL	353591.5	3793285	NonCancer	4.49E-03
1859	ALL	353615.5	3793160	NonCancer	4.49E-03
1307	ALL	353690.5	3792685	NonCancer	4.48E-03
2373	ALL	353546.5	3793480	NonCancer	4.48E-03
723	ALL	353973.1	3793068	NonCancer	4.47E-03
1020	ALL	354323.1	3793343	NonCancer	4.47E-03
251	ALL	353823.1	3792693	NonCancer	4.45E-03
2263	ALL	353561.5	3793405	NonCancer	4.45E-03
1653	ALL	353640.5	3792985	NonCancer	4.44E-03
2141	ALL	353576.5	3793330	NonCancer	4.44E-03
2042	ALL	353591.5	3793270	NonCancer	4.43E-03
892	ALL	354198.1	3793193	NonCancer	4.43E-03
924	ALL	354223.1	3793218	NonCancer	4.43E-03
626	ALL	353898.1	3792993	NonCancer	4.43E-03
941	ALL	354248.1	3793243	NonCancer	4.43E-03
2353	ALL	353546.5	3793465	NonCancer	4.42E-03
961	ALL	354273.1	3793268	NonCancer	4.42E-03
758	ALL	354048.1	3793093	NonCancer	4.41E-03
1053	ALL	354348.1	3793393	NonCancer	4.41E-03
1422	ALL	353665.5	3792785	NonCancer	4.41E-03
2239	ALL	353561.5	3793390	NonCancer	4.39E-03
1829	ALL	353615.5	3793135	NonCancer	4.39E-03
792	ALL	354098.1	3793118	NonCancer	4.38E-03
859	ALL	354173.1	3793168	NonCancer	4.38E-03
532	ALL	353873.1	3792918	NonCancer	4.37E-03
2331	ALL	353546.5	3793450	NonCancer	4.37E-03
690	ALL	353948.1	3793043	NonCancer	4.36E-03
2116	ALL	353576.5	3793315	NonCancer	4.36E-03
1250	ALL	353715.5	3792635	NonCancer	4.35E-03
1624	ALL	353640.5	3792960	NonCancer	4.35E-03
376	ALL	353848.1	3792793	NonCancer	4.34E-03
724	ALL	353998.1	3793068	NonCancer	4.34E-03
658	ALL	353923.1	3793018	NonCancer	4.34E-03
2483	ALL	353531.5	3793570	NonCancer	4.33E-03
2215	ALL	353561.5	3793375	NonCancer	4.33E-03
981	ALL	354298.1	3793293	NonCancer	4.32E-03
2466	ALL	353531.5	3793555	NonCancer	4.31E-03
2309	ALL	353546.5	3793435	NonCancer	4.31E-03
2448	ALL	353531.5	3793540	NonCancer	4.31E-03
1799	ALL	353615.5	3793110	NonCancer	4.30E-03
2429	ALL	353531.5	3793525	NonCancer	4.30E-03
2091	ALL	353576.5	3793300	NonCancer	4.29E-03
2190	ALL	353561.5	3793360	NonCancer	4.28E-03

2410	ALL	353531.5	3793510	NonCancer	4.28E-03
1595	ALL	353640.5	3792935	NonCancer	4.27E-03
2286	ALL	353546.5	3793420	NonCancer	4.27E-03
595	ALL	353898.1	3792968	NonCancer	4.27E-03
826	ALL	354148.1	3793143	NonCancer	4.26E-03
1037	ALL	354348.1	3793368	NonCancer	4.25E-03
759	ALL	354073.1	3793093	NonCancer	4.25E-03
2391	ALL	353531.5	3793495	NonCancer	4.25E-03
1393	ALL	353665.5	3792760	NonCancer	4.24E-03
2165	ALL	353561.5	3793345	NonCancer	4.24E-03
2066	ALL	353576.5	3793285	NonCancer	4.22E-03
2262	ALL	353546.5	3793405	NonCancer	4.22E-03
1001	ALL	354323.1	3793318	NonCancer	4.22E-03
1769	ALL	353615.5	3793085	NonCancer	4.21E-03
2372	ALL	353531.5	3793480	NonCancer	4.21E-03
501	ALL	353873.1	3792893	NonCancer	4.21E-03
725	ALL	354023.1	3793068	NonCancer	4.21E-03
691	ALL	353973.1	3793043	NonCancer	4.19E-03
1566	ALL	353640.5	3792910	NonCancer	4.19E-03
793	ALL	354123.1	3793118	NonCancer	4.19E-03
1918	ALL	353590.5	3793210	NonCancer	4.19E-03
345	ALL	353848.1	3792768	NonCancer	4.19E-03
2140	ALL	353561.5	3793330	NonCancer	4.17E-03
2352	ALL	353531.5	3793465	NonCancer	4.17E-03
2041	ALL	353576.5	3793270	NonCancer	4.17E-03
2238	ALL	353546.5	3793390	NonCancer	4.16E-03
627	ALL	353923.1	3792993	NonCancer	4.14E-03
893	ALL	354223.1	3793193	NonCancer	4.13E-03
1739	ALL	353615.5	3793060	NonCancer	4.13E-03
659	ALL	353948.1	3793018	NonCancer	4.12E-03
2330	ALL	353531.5	3793450	NonCancer	4.12E-03
925	ALL	354248.1	3793218	NonCancer	4.11E-03
2115	ALL	353561.5	3793315	NonCancer	4.11E-03
942	ALL	354273.1	3793243	NonCancer	4.11E-03
1537	ALL	353640.5	3792885	NonCancer	4.10E-03
1888	ALL	353590.5	3793185	NonCancer	4.10E-03
860	ALL	354198.1	3793168	NonCancer	4.10E-03
564	ALL	353898.1	3792943	NonCancer	4.10E-03
2214	ALL	353546.5	3793375	NonCancer	4.10E-03
220	ALL	353823.1	3792668	NonCancer	4.09E-03
1069	ALL	354373.1	3793418	NonCancer	4.08E-03
470	ALL	353873.1	3792868	NonCancer	4.08E-03
760	ALL	354098.1	3793093	NonCancer	4.08E-03
2308	ALL	353531.5	3793435	NonCancer	4.07E-03
726	ALL	354048.1	3793068	NonCancer	4.07E-03
2482	ALL	353516.5	3793570	NonCancer	4.07E-03
1021	ALL	354348.1	3793343	NonCancer	4.07E-03

2090	ALL	353561.5	3793300	NonCancer	4.05E-03
692	ALL	353998.1	3793043	NonCancer	4.05E-03
2465	ALL	353516.5	3793555	NonCancer	4.05E-03
2189	ALL	353546.5	3793360	NonCancer	4.04E-03
1710	ALL	353615.5	3793035	NonCancer	4.04E-03
962	ALL	354298.1	3793268	NonCancer	4.04E-03
2447	ALL	353516.5	3793540	NonCancer	4.04E-03
827	ALL	354173.1	3793143	NonCancer	4.04E-03
2285	ALL	353531.5	3793420	NonCancer	4.03E-03
1364	ALL	353665.5	3792735	NonCancer	4.03E-03
2428	ALL	353516.5	3793525	NonCancer	4.03E-03
1858	ALL	353590.5	3793160	NonCancer	4.01E-03
2409	ALL	353516.5	3793510	NonCancer	4.01E-03
1508	ALL	353640.5	3792860	NonCancer	4.01E-03
2371	ALL	353516.5	3793480	NonCancer	4.01E-03
2390	ALL	353516.5	3793495	NonCancer	4.00E-03
314	ALL	353848.1	3792743	NonCancer	3.99E-03
439	ALL	353873.1	3792843	NonCancer	3.99E-03
2261	ALL	353531.5	3793405	NonCancer	3.99E-03
2065	ALL	353561.5	3793285	NonCancer	3.99E-03
2351	ALL	353516.5	3793465	NonCancer	3.99E-03
2164	ALL	353546.5	3793345	NonCancer	3.99E-03
1054	ALL	354373.1	3793393	NonCancer	3.97E-03
596	ALL	353923.1	3792968	NonCancer	3.97E-03
982	ALL	354323.1	3793293	NonCancer	3.97E-03
660	ALL	353973.1	3793018	NonCancer	3.96E-03
1681	ALL	353615.5	3793010	NonCancer	3.96E-03
794	ALL	354148.1	3793118	NonCancer	3.95E-03
533	ALL	353898.1	3792918	NonCancer	3.94E-03
2237	ALL	353531.5	3793390	NonCancer	3.94E-03
2040	ALL	353561.5	3793270	NonCancer	3.93E-03
2329	ALL	353516.5	3793450	NonCancer	3.93E-03
2139	ALL	353546.5	3793330	NonCancer	3.93E-03
727	ALL	354073.1	3793068	NonCancer	3.92E-03
1828	ALL	353590.5	3793135	NonCancer	3.92E-03
693	ALL	354023.1	3793043	NonCancer	3.92E-03
628	ALL	353948.1	3792993	NonCancer	3.92E-03
1278	ALL	353690.5	3792660	NonCancer	3.91E-03
1479	ALL	353640.5	3792835	NonCancer	3.89E-03
761	ALL	354123.1	3793093	NonCancer	3.89E-03
2446	ALL	353501.5	3793540	NonCancer	3.89E-03
2427	ALL	353501.5	3793525	NonCancer	3.88E-03
1652	ALL	353615.5	3792985	NonCancer	3.88E-03
2213	ALL	353531.5	3793375	NonCancer	3.88E-03
408	ALL	353873.1	3792818	NonCancer	3.88E-03
2464	ALL	353501.5	3793555	NonCancer	3.88E-03
2307	ALL	353516.5	3793435	NonCancer	3.87E-03

2114	ALL	353546.5	3793315	NonCancer	3.87E-03
2481	ALL	353501.5	3793570	NonCancer	3.87E-03
2408	ALL	353501.5	3793510	NonCancer	3.87E-03
1002	ALL	354348.1	3793318	NonCancer	3.86E-03
1038	ALL	354373.1	3793368	NonCancer	3.85E-03
894	ALL	354248.1	3793193	NonCancer	3.85E-03
2389	ALL	353501.5	3793495	NonCancer	3.85E-03
2370	ALL	353501.5	3793480	NonCancer	3.85E-03
1798	ALL	353590.5	3793110	NonCancer	3.84E-03
861	ALL	354223.1	3793168	NonCancer	3.84E-03
926	ALL	354273.1	3793218	NonCancer	3.83E-03
2284	ALL	353516.5	3793420	NonCancer	3.82E-03
2188	ALL	353531.5	3793360	NonCancer	3.82E-03
661	ALL	353998.1	3793018	NonCancer	3.82E-03
2350	ALL	353501.5	3793465	NonCancer	3.82E-03
2089	ALL	353546.5	3793300	NonCancer	3.81E-03
283	ALL	353848.1	3792718	NonCancer	3.81E-03
828	ALL	354198.1	3793143	NonCancer	3.80E-03
1623	ALL	353615.5	3792960	NonCancer	3.80E-03
565	ALL	353923.1	3792943	NonCancer	3.80E-03
694	ALL	354048.1	3793043	NonCancer	3.79E-03
502	ALL	353898.1	3792893	NonCancer	3.79E-03
943	ALL	354298.1	3793243	NonCancer	3.78E-03
2260	ALL	353516.5	3793405	NonCancer	3.77E-03
1335	ALL	353665.5	3792710	NonCancer	3.77E-03
1450	ALL	353640.5	3792810	NonCancer	3.77E-03
728	ALL	354098.1	3793068	NonCancer	3.77E-03
2426	ALL	353486.5	3793525	NonCancer	3.77E-03
2163	ALL	353531.5	3793345	NonCancer	3.76E-03
2445	ALL	353486.5	3793540	NonCancer	3.76E-03
795	ALL	354173.1	3793118	NonCancer	3.76E-03
1768	ALL	353590.5	3793085	NonCancer	3.76E-03
157	ALL	353798.1	3792618	NonCancer	3.76E-03
2064	ALL	353546.5	3793285	NonCancer	3.75E-03
629	ALL	353973.1	3792993	NonCancer	3.75E-03
2407	ALL	353486.5	3793510	NonCancer	3.75E-03
597	ALL	353948.1	3792968	NonCancer	3.74E-03
2463	ALL	353486.5	3793555	NonCancer	3.74E-03
2328	ALL	353501.5	3793450	NonCancer	3.74E-03
963	ALL	354323.1	3793268	NonCancer	3.74E-03
2388	ALL	353486.5	3793495	NonCancer	3.73E-03
2236	ALL	353516.5	3793390	NonCancer	3.72E-03
1594	ALL	353615.5	3792935	NonCancer	3.72E-03
2480	ALL	353486.5	3793570	NonCancer	3.72E-03
377	ALL	353873.1	3792793	NonCancer	3.72E-03
2138	ALL	353531.5	3793330	NonCancer	3.71E-03
2369	ALL	353486.5	3793480	NonCancer	3.71E-03

2039	ALL	353546.5	3793270	NonCancer	3.70E-03
1917	ALL	353565.5	3793210	NonCancer	3.70E-03
662	ALL	354023.1	3793018	NonCancer	3.69E-03
1022	ALL	354373.1	3793343	NonCancer	3.69E-03
1070	ALL	354398.1	3793418	NonCancer	3.68E-03
2496	ALL	353486.5	3793585	NonCancer	3.68E-03
762	ALL	354148.1	3793093	NonCancer	3.68E-03
1738	ALL	353590.5	3793060	NonCancer	3.67E-03
2306	ALL	353501.5	3793435	NonCancer	3.67E-03
2212	ALL	353516.5	3793375	NonCancer	3.67E-03
471	ALL	353898.1	3792868	NonCancer	3.66E-03
2462	ALL	353471.5	3793555	NonCancer	3.66E-03
983	ALL	354348.1	3793293	NonCancer	3.66E-03
2349	ALL	353486.5	3793465	NonCancer	3.66E-03
2026	ALL	353546.5	3793255	NonCancer	3.66E-03
695	ALL	354073.1	3793043	NonCancer	3.66E-03
2113	ALL	353531.5	3793315	NonCancer	3.66E-03
2444	ALL	353471.5	3793540	NonCancer	3.65E-03
2479	ALL	353471.5	3793570	NonCancer	3.65E-03
2425	ALL	353471.5	3793525	NonCancer	3.64E-03
534	ALL	353923.1	3792918	NonCancer	3.64E-03
2406	ALL	353471.5	3793510	NonCancer	3.64E-03
1421	ALL	353640.5	3792785	NonCancer	3.64E-03
1887	ALL	353565.5	3793185	NonCancer	3.64E-03
1565	ALL	353615.5	3792910	NonCancer	3.63E-03
2387	ALL	353471.5	3793495	NonCancer	3.63E-03
2283	ALL	353501.5	3793420	NonCancer	3.62E-03
2187	ALL	353516.5	3793360	NonCancer	3.62E-03
189	ALL	353823.1	3792643	NonCancer	3.62E-03
2368	ALL	353471.5	3793480	NonCancer	3.61E-03
2495	ALL	353471.5	3793585	NonCancer	3.61E-03
630	ALL	353998.1	3792993	NonCancer	3.61E-03
1857	ALL	353565.5	3793160	NonCancer	3.61E-03
729	ALL	354123.1	3793068	NonCancer	3.60E-03
252	ALL	353848.1	3792693	NonCancer	3.60E-03
2088	ALL	353531.5	3793300	NonCancer	3.60E-03
895	ALL	354273.1	3793193	NonCancer	3.60E-03
862	ALL	354248.1	3793168	NonCancer	3.59E-03
1709	ALL	353590.5	3793035	NonCancer	3.59E-03
2478	ALL	353456.5	3793570	NonCancer	3.59E-03
2461	ALL	353456.5	3793555	NonCancer	3.59E-03
1055	ALL	354398.1	3793393	NonCancer	3.59E-03
346	ALL	353873.1	3792768	NonCancer	3.59E-03
2327	ALL	353486.5	3793450	NonCancer	3.57E-03
566	ALL	353948.1	3792943	NonCancer	3.57E-03
829	ALL	354223.1	3793143	NonCancer	3.57E-03
663	ALL	354048.1	3793018	NonCancer	3.57E-03

2259	ALL	353501.5	3793405	NonCancer	3.57E-03
2494	ALL	353456.5	3793585	NonCancer	3.57E-03
598	ALL	353973.1	3792968	NonCancer	3.57E-03
2162	ALL	353516.5	3793345	NonCancer	3.57E-03
440	ALL	353898.1	3792843	NonCancer	3.57E-03
2348	ALL	353471.5	3793465	NonCancer	3.56E-03
2443	ALL	353456.5	3793540	NonCancer	3.56E-03
796	ALL	354198.1	3793118	NonCancer	3.55E-03
2424	ALL	353456.5	3793525	NonCancer	3.55E-03
2477	ALL	353441.5	3793570	NonCancer	3.55E-03
2493	ALL	353441.5	3793585	NonCancer	3.55E-03
1536	ALL	353615.5	3792885	NonCancer	3.54E-03
927	ALL	354298.1	3793218	NonCancer	3.54E-03
2063	ALL	353531.5	3793285	NonCancer	3.54E-03
2405	ALL	353456.5	3793510	NonCancer	3.54E-03
2460	ALL	353441.5	3793555	NonCancer	3.53E-03
1827	ALL	353565.5	3793135	NonCancer	3.53E-03
1003	ALL	354373.1	3793318	NonCancer	3.53E-03
2235	ALL	353501.5	3793390	NonCancer	3.52E-03
2386	ALL	353456.5	3793495	NonCancer	3.52E-03
763	ALL	354173.1	3793093	NonCancer	3.52E-03
944	ALL	354323.1	3793243	NonCancer	3.52E-03
1680	ALL	353590.5	3793010	NonCancer	3.52E-03
2137	ALL	353516.5	3793330	NonCancer	3.52E-03
696	ALL	354098.1	3793043	NonCancer	3.52E-03
2442	ALL	353441.5	3793540	NonCancer	3.50E-03
2367	ALL	353456.5	3793480	NonCancer	3.50E-03
2038	ALL	353531.5	3793270	NonCancer	3.50E-03
1039	ALL	354398.1	3793368	NonCancer	3.49E-03
2305	ALL	353486.5	3793435	NonCancer	3.49E-03
503	ALL	353923.1	3792893	NonCancer	3.49E-03
631	ALL	354023.1	3792993	NonCancer	3.48E-03
1392	ALL	353640.5	3792760	NonCancer	3.48E-03
2423	ALL	353441.5	3793525	NonCancer	3.48E-03
2211	ALL	353501.5	3793375	NonCancer	3.48E-03
2326	ALL	353471.5	3793450	NonCancer	3.47E-03
2112	ALL	353516.5	3793315	NonCancer	3.47E-03
964	ALL	354348.1	3793268	NonCancer	3.47E-03
2404	ALL	353441.5	3793510	NonCancer	3.46E-03
2025	ALL	353531.5	3793255	NonCancer	3.46E-03
1797	ALL	353565.5	3793110	NonCancer	3.46E-03
409	ALL	353898.1	3792818	NonCancer	3.45E-03
1507	ALL	353615.5	3792860	NonCancer	3.45E-03
2347	ALL	353456.5	3793465	NonCancer	3.45E-03
664	ALL	354073.1	3793018	NonCancer	3.45E-03
1651	ALL	353590.5	3792985	NonCancer	3.45E-03
1306	ALL	353665.5	3792685	NonCancer	3.44E-03

730	ALL	354148.1	3793068	NonCancer	3.44E-03
2492	ALL	353426.5	3793585	NonCancer	3.44E-03
2282	ALL	353486.5	3793420	NonCancer	3.44E-03
2476	ALL	353426.5	3793570	NonCancer	3.43E-03
2385	ALL	353441.5	3793495	NonCancer	3.43E-03
2186	ALL	353501.5	3793360	NonCancer	3.43E-03
1916	ALL	353540.5	3793210	NonCancer	3.42E-03
599	ALL	353998.1	3792968	NonCancer	3.42E-03
535	ALL	353948.1	3792918	NonCancer	3.42E-03
2459	ALL	353426.5	3793555	NonCancer	3.42E-03
2087	ALL	353516.5	3793300	NonCancer	3.41E-03
315	ALL	353873.1	3792743	NonCancer	3.41E-03
567	ALL	353973.1	3792943	NonCancer	3.40E-03
2441	ALL	353426.5	3793540	NonCancer	3.39E-03
2366	ALL	353441.5	3793480	NonCancer	3.39E-03
2258	ALL	353486.5	3793405	NonCancer	3.39E-03
1767	ALL	353565.5	3793085	NonCancer	3.38E-03
2304	ALL	353471.5	3793435	NonCancer	3.38E-03
2161	ALL	353501.5	3793345	NonCancer	3.38E-03
697	ALL	354123.1	3793043	NonCancer	3.37E-03
632	ALL	354048.1	3792993	NonCancer	3.37E-03
863	ALL	354273.1	3793168	NonCancer	3.37E-03
1622	ALL	353590.5	3792960	NonCancer	3.37E-03
472	ALL	353923.1	3792868	NonCancer	3.37E-03
2422	ALL	353426.5	3793525	NonCancer	3.37E-03
125	ALL	353773.1	3792593	NonCancer	3.37E-03
984	ALL	354373.1	3793293	NonCancer	3.36E-03
797	ALL	354223.1	3793118	NonCancer	3.36E-03
1023	ALL	354398.1	3793343	NonCancer	3.36E-03
2062	ALL	353516.5	3793285	NonCancer	3.36E-03
830	ALL	354248.1	3793143	NonCancer	3.36E-03
2325	ALL	353456.5	3793450	NonCancer	3.35E-03
1071	ALL	354423.1	3793418	NonCancer	3.34E-03
2234	ALL	353486.5	3793390	NonCancer	3.34E-03
1478	ALL	353615.5	3792835	NonCancer	3.34E-03
2136	ALL	353501.5	3793330	NonCancer	3.34E-03
1221	ALL	353715.5	3792610	NonCancer	3.34E-03
221	ALL	353848.1	3792668	NonCancer	3.33E-03
2403	ALL	353426.5	3793510	NonCancer	3.33E-03
764	ALL	354198.1	3793093	NonCancer	3.33E-03
1886	ALL	353540.5	3793185	NonCancer	3.33E-03
896	ALL	354298.1	3793193	NonCancer	3.33E-03
2037	ALL	353516.5	3793270	NonCancer	3.32E-03
665	ALL	354098.1	3793018	NonCancer	3.32E-03
2475	ALL	353411.5	3793570	NonCancer	3.32E-03
2491	ALL	353411.5	3793585	NonCancer	3.32E-03
2346	ALL	353441.5	3793465	NonCancer	3.31E-03

928	ALL	354323.1	3793218	NonCancer	3.31E-03
1737	ALL	353565.5	3793060	NonCancer	3.31E-03
2210	ALL	353486.5	3793375	NonCancer	3.30E-03
2384	ALL	353426.5	3793495	NonCancer	3.30E-03
1363	ALL	353640.5	3792735	NonCancer	3.30E-03
378	ALL	353898.1	3792793	NonCancer	3.30E-03
2458	ALL	353411.5	3793555	NonCancer	3.29E-03
2111	ALL	353501.5	3793315	NonCancer	3.29E-03
2281	ALL	353471.5	3793420	NonCancer	3.29E-03
1593	ALL	353590.5	3792935	NonCancer	3.29E-03
600	ALL	354023.1	3792968	NonCancer	3.29E-03
2024	ALL	353516.5	3793255	NonCancer	3.28E-03
945	ALL	354348.1	3793243	NonCancer	3.28E-03
1249	ALL	353690.5	3792635	NonCancer	3.28E-03
731	ALL	354173.1	3793068	NonCancer	3.27E-03
504	ALL	353948.1	3792893	NonCancer	3.27E-03
1056	ALL	354423.1	3793393	NonCancer	3.26E-03
441	ALL	353923.1	3792843	NonCancer	3.26E-03
633	ALL	354073.1	3792993	NonCancer	3.26E-03
2303	ALL	353456.5	3793435	NonCancer	3.26E-03
2185	ALL	353486.5	3793360	NonCancer	3.26E-03
2440	ALL	353411.5	3793540	NonCancer	3.25E-03
284	ALL	353873.1	3792718	NonCancer	3.25E-03
568	ALL	353998.1	3792943	NonCancer	3.25E-03
2365	ALL	353426.5	3793480	NonCancer	3.25E-03
2086	ALL	353501.5	3793300	NonCancer	3.24E-03
536	ALL	353973.1	3792918	NonCancer	3.24E-03
1004	ALL	354398.1	3793318	NonCancer	3.23E-03
1708	ALL	353565.5	3793035	NonCancer	3.23E-03
698	ALL	354148.1	3793043	NonCancer	3.23E-03
1449	ALL	353615.5	3792810	NonCancer	3.23E-03
2257	ALL	353471.5	3793405	NonCancer	3.22E-03
1856	ALL	353540.5	3793160	NonCancer	3.22E-03
2421	ALL	353411.5	3793525	NonCancer	3.22E-03
2324	ALL	353441.5	3793450	NonCancer	3.22E-03
2490	ALL	353396.5	3793585	NonCancer	3.21E-03
1564	ALL	353590.5	3792910	NonCancer	3.21E-03
2160	ALL	353486.5	3793345	NonCancer	3.21E-03
965	ALL	354373.1	3793268	NonCancer	3.20E-03
2474	ALL	353396.5	3793570	NonCancer	3.20E-03
2061	ALL	353501.5	3793285	NonCancer	3.19E-03
347	ALL	353898.1	3792768	NonCancer	3.19E-03
1040	ALL	354423.1	3793368	NonCancer	3.19E-03
2345	ALL	353426.5	3793465	NonCancer	3.18E-03
666	ALL	354123.1	3793018	NonCancer	3.18E-03
2233	ALL	353471.5	3793390	NonCancer	3.18E-03
2402	ALL	353411.5	3793510	NonCancer	3.18E-03

765	ALL	354223.1	3793093	NonCancer	3.18E-03
2135	ALL	353486.5	3793330	NonCancer	3.17E-03
2280	ALL	353456.5	3793420	NonCancer	3.17E-03
2457	ALL	353396.5	3793555	NonCancer	3.17E-03
601	ALL	354048.1	3792968	NonCancer	3.16E-03
1679	ALL	353565.5	3793010	NonCancer	3.16E-03
798	ALL	354248.1	3793118	NonCancer	3.16E-03
1826	ALL	353540.5	3793135	NonCancer	3.16E-03
2036	ALL	353501.5	3793270	NonCancer	3.15E-03
831	ALL	354273.1	3793143	NonCancer	3.15E-03
1915	ALL	353515.5	3793210	NonCancer	3.15E-03
410	ALL	353923.1	3792818	NonCancer	3.15E-03
473	ALL	353948.1	3792868	NonCancer	3.15E-03
2383	ALL	353411.5	3793495	NonCancer	3.14E-03
2209	ALL	353471.5	3793375	NonCancer	3.14E-03
634	ALL	354098.1	3792993	NonCancer	3.13E-03
864	ALL	354298.1	3793168	NonCancer	3.13E-03
2110	ALL	353486.5	3793315	NonCancer	3.13E-03
1796	ALL	353540.5	3793110	NonCancer	3.13E-03
1535	ALL	353590.5	3792885	NonCancer	3.13E-03
2302	ALL	353441.5	3793435	NonCancer	3.12E-03
897	ALL	354323.1	3793193	NonCancer	3.12E-03
2439	ALL	353396.5	3793540	NonCancer	3.12E-03
569	ALL	354023.1	3792943	NonCancer	3.12E-03
2023	ALL	353501.5	3793255	NonCancer	3.12E-03
2489	ALL	353381.5	3793585	NonCancer	3.11E-03
2364	ALL	353411.5	3793480	NonCancer	3.11E-03
929	ALL	354348.1	3793218	NonCancer	3.11E-03
732	ALL	354198.1	3793068	NonCancer	3.11E-03
158	ALL	353823.1	3792618	NonCancer	3.10E-03
505	ALL	353973.1	3792893	NonCancer	3.10E-03
1420	ALL	353615.5	3792785	NonCancer	3.10E-03
537	ALL	353998.1	3792918	NonCancer	3.10E-03
985	ALL	354398.1	3793293	NonCancer	3.10E-03
2184	ALL	353471.5	3793360	NonCancer	3.10E-03
1650	ALL	353565.5	3792985	NonCancer	3.09E-03
1024	ALL	354423.1	3793343	NonCancer	3.09E-03
2085	ALL	353486.5	3793300	NonCancer	3.09E-03
2256	ALL	353456.5	3793405	NonCancer	3.08E-03
253	ALL	353873.1	3792693	NonCancer	3.08E-03
1766	ALL	353540.5	3793085	NonCancer	3.08E-03
2323	ALL	353426.5	3793450	NonCancer	3.08E-03
1334	ALL	353640.5	3792710	NonCancer	3.08E-03
2420	ALL	353396.5	3793525	NonCancer	3.08E-03
699	ALL	354173.1	3793043	NonCancer	3.07E-03
1885	ALL	353515.5	3793185	NonCancer	3.07E-03
1277	ALL	353665.5	3792660	NonCancer	3.07E-03

2473	ALL	353381.5	3793570	NonCancer	3.07E-03
2159	ALL	353471.5	3793345	NonCancer	3.06E-03
2279	ALL	353441.5	3793420	NonCancer	3.05E-03
946	ALL	354373.1	3793243	NonCancer	3.05E-03
2344	ALL	353411.5	3793465	NonCancer	3.05E-03
602	ALL	354073.1	3792968	NonCancer	3.05E-03
2060	ALL	353486.5	3793285	NonCancer	3.04E-03
667	ALL	354148.1	3793018	NonCancer	3.04E-03
2401	ALL	353396.5	3793510	NonCancer	3.04E-03
2232	ALL	353456.5	3793390	NonCancer	3.04E-03
1506	ALL	353590.5	3792860	NonCancer	3.03E-03
2456	ALL	353381.5	3793555	NonCancer	3.03E-03
316	ALL	353898.1	3792743	NonCancer	3.03E-03
442	ALL	353948.1	3792843	NonCancer	3.03E-03
190	ALL	353848.1	3792643	NonCancer	3.02E-03
2134	ALL	353471.5	3793330	NonCancer	3.02E-03
1621	ALL	353565.5	3792960	NonCancer	3.02E-03
1736	ALL	353540.5	3793060	NonCancer	3.02E-03
635	ALL	354123.1	3792993	NonCancer	3.01E-03
1072	ALL	354448.1	3793418	NonCancer	3.01E-03
379	ALL	353923.1	3792793	NonCancer	3.01E-03
2035	ALL	353486.5	3793270	NonCancer	3.00E-03
570	ALL	354048.1	3792943	NonCancer	3.00E-03
766	ALL	354248.1	3793093	NonCancer	3.00E-03
2382	ALL	353396.5	3793495	NonCancer	3.00E-03
1855	ALL	353515.5	3793160	NonCancer	2.99E-03
2208	ALL	353456.5	3793375	NonCancer	2.99E-03
2301	ALL	353426.5	3793435	NonCancer	2.99E-03
2438	ALL	353381.5	3793540	NonCancer	2.99E-03
1005	ALL	354423.1	3793318	NonCancer	2.99E-03
126	ALL	353798.1	3792593	NonCancer	2.98E-03
2109	ALL	353471.5	3793315	NonCancer	2.98E-03
2255	ALL	353441.5	3793405	NonCancer	2.98E-03
474	ALL	353973.1	3792868	NonCancer	2.97E-03
538	ALL	354023.1	3792918	NonCancer	2.97E-03
2363	ALL	353396.5	3793480	NonCancer	2.97E-03
799	ALL	354273.1	3793118	NonCancer	2.97E-03
2488	ALL	353366.5	3793585	NonCancer	2.97E-03
2022	ALL	353486.5	3793255	NonCancer	2.96E-03
966	ALL	354398.1	3793268	NonCancer	2.96E-03
506	ALL	353998.1	3792893	NonCancer	2.96E-03
1057	ALL	354448.1	3793393	NonCancer	2.96E-03
1391	ALL	353615.5	3792760	NonCancer	2.96E-03
865	ALL	354323.1	3793168	NonCancer	2.95E-03
733	ALL	354223.1	3793068	NonCancer	2.95E-03
832	ALL	354298.1	3793143	NonCancer	2.95E-03
2183	ALL	353456.5	3793360	NonCancer	2.95E-03

2322	ALL	353411.5	3793450	NonCancer	2.95E-03
1707	ALL	353540.5	3793035	NonCancer	2.95E-03
1592	ALL	353565.5	3792935	NonCancer	2.95E-03
2419	ALL	353381.5	3793525	NonCancer	2.94E-03
2084	ALL	353471.5	3793300	NonCancer	2.94E-03
898	ALL	354348.1	3793193	NonCancer	2.94E-03
603	ALL	354098.1	3792968	NonCancer	2.93E-03
1477	ALL	353590.5	3792835	NonCancer	2.93E-03
2278	ALL	353426.5	3793420	NonCancer	2.92E-03
700	ALL	354198.1	3793043	NonCancer	2.92E-03
1825	ALL	353515.5	3793135	NonCancer	2.92E-03
2343	ALL	353396.5	3793465	NonCancer	2.92E-03
411	ALL	353948.1	3792818	NonCancer	2.92E-03
1041	ALL	354448.1	3793368	NonCancer	2.91E-03
2158	ALL	353456.5	3793345	NonCancer	2.91E-03
668	ALL	354173.1	3793018	NonCancer	2.91E-03
2472	ALL	353366.5	3793570	NonCancer	2.91E-03
2231	ALL	353441.5	3793390	NonCancer	2.91E-03
2400	ALL	353381.5	3793510	NonCancer	2.91E-03
348	ALL	353923.1	3792768	NonCancer	2.90E-03
2059	ALL	353471.5	3793285	NonCancer	2.90E-03
930	ALL	354373.1	3793218	NonCancer	2.90E-03
1914	ALL	353490.5	3793210	NonCancer	2.90E-03
571	ALL	354073.1	3792943	NonCancer	2.90E-03
285	ALL	353898.1	3792718	NonCancer	2.89E-03
1678	ALL	353540.5	3793010	NonCancer	2.88E-03
222	ALL	353873.1	3792668	NonCancer	2.88E-03
986	ALL	354423.1	3793293	NonCancer	2.88E-03
2455	ALL	353366.5	3793555	NonCancer	2.88E-03
2381	ALL	353381.5	3793495	NonCancer	2.88E-03
2133	ALL	353456.5	3793330	NonCancer	2.88E-03
1563	ALL	353565.5	3792910	NonCancer	2.87E-03
636	ALL	354148.1	3792993	NonCancer	2.87E-03
2034	ALL	353471.5	3793270	NonCancer	2.86E-03
539	ALL	354048.1	3792918	NonCancer	2.86E-03
2300	ALL	353411.5	3793435	NonCancer	2.86E-03
2254	ALL	353426.5	3793405	NonCancer	2.86E-03
2207	ALL	353441.5	3793375	NonCancer	2.86E-03
443	ALL	353973.1	3792843	NonCancer	2.85E-03
1025	ALL	354448.1	3793343	NonCancer	2.85E-03
2437	ALL	353366.5	3793540	NonCancer	2.85E-03
604	ALL	354123.1	3792968	NonCancer	2.85E-03
2362	ALL	353381.5	3793480	NonCancer	2.85E-03
507	ALL	354023.1	3792893	NonCancer	2.84E-03
2108	ALL	353456.5	3793315	NonCancer	2.84E-03
1795	ALL	353515.5	3793110	NonCancer	2.84E-03
475	ALL	353998.1	3792868	NonCancer	2.83E-03

1884	ALL	353490.5	3793185	NonCancer	2.83E-03
1305	ALL	353640.5	3792685	NonCancer	2.83E-03
947	ALL	354398.1	3793243	NonCancer	2.83E-03
2021	ALL	353471.5	3793255	NonCancer	2.83E-03
767	ALL	354273.1	3793093	NonCancer	2.83E-03
2321	ALL	353396.5	3793450	NonCancer	2.83E-03
1448	ALL	353590.5	3792810	NonCancer	2.82E-03
2418	ALL	353366.5	3793525	NonCancer	2.82E-03
2182	ALL	353441.5	3793360	NonCancer	2.82E-03
1649	ALL	353540.5	3792985	NonCancer	2.81E-03
2083	ALL	353456.5	3793300	NonCancer	2.81E-03
1362	ALL	353615.5	3792735	NonCancer	2.80E-03
2277	ALL	353411.5	3793420	NonCancer	2.80E-03
2342	ALL	353381.5	3793465	NonCancer	2.80E-03
734	ALL	354248.1	3793068	NonCancer	2.80E-03
1765	ALL	353515.5	3793085	NonCancer	2.80E-03
833	ALL	354323.1	3793143	NonCancer	2.79E-03
380	ALL	353948.1	3792793	NonCancer	2.79E-03
1534	ALL	353565.5	3792885	NonCancer	2.79E-03
800	ALL	354298.1	3793118	NonCancer	2.79E-03
572	ALL	354098.1	3792943	NonCancer	2.79E-03
2399	ALL	353366.5	3793510	NonCancer	2.79E-03
866	ALL	354348.1	3793168	NonCancer	2.78E-03
2230	ALL	353426.5	3793390	NonCancer	2.78E-03
2157	ALL	353441.5	3793345	NonCancer	2.78E-03
701	ALL	354223.1	3793043	NonCancer	2.78E-03
669	ALL	354198.1	3793018	NonCancer	2.77E-03
2058	ALL	353456.5	3793285	NonCancer	2.77E-03
1006	ALL	354448.1	3793318	NonCancer	2.77E-03
1854	ALL	353490.5	3793160	NonCancer	2.77E-03
1735	ALL	353515.5	3793060	NonCancer	2.77E-03
637	ALL	354173.1	3792993	NonCancer	2.77E-03
2380	ALL	353366.5	3793495	NonCancer	2.76E-03
967	ALL	354423.1	3793268	NonCancer	2.76E-03
540	ALL	354073.1	3792918	NonCancer	2.76E-03
899	ALL	354373.1	3793193	NonCancer	2.76E-03
317	ALL	353923.1	3792743	NonCancer	2.75E-03
1220	ALL	353690.5	3792610	NonCancer	2.74E-03
2132	ALL	353441.5	3793330	NonCancer	2.74E-03
254	ALL	353898.1	3792693	NonCancer	2.74E-03
2299	ALL	353396.5	3793435	NonCancer	2.74E-03
508	ALL	354048.1	3792893	NonCancer	2.74E-03
2253	ALL	353411.5	3793405	NonCancer	2.74E-03
2033	ALL	353456.5	3793270	NonCancer	2.74E-03
412	ALL	353973.1	3792818	NonCancer	2.74E-03
1620	ALL	353540.5	3792960	NonCancer	2.74E-03
2206	ALL	353426.5	3793375	NonCancer	2.73E-03

2361	ALL	353366.5	3793480	NonCancer	2.73E-03
2320	ALL	353381.5	3793450	NonCancer	2.72E-03
476	ALL	354023.1	3792868	NonCancer	2.72E-03
1073	ALL	354473.1	3793418	NonCancer	2.71E-03
605	ALL	354148.1	3792968	NonCancer	2.71E-03
444	ALL	353998.1	3792843	NonCancer	2.71E-03
2107	ALL	353441.5	3793315	NonCancer	2.71E-03
1419	ALL	353590.5	3792785	NonCancer	2.71E-03
1824	ALL	353490.5	3793135	NonCancer	2.71E-03
1706	ALL	353515.5	3793035	NonCancer	2.71E-03
1505	ALL	353565.5	3792860	NonCancer	2.70E-03
931	ALL	354398.1	3793218	NonCancer	2.70E-03
2020	ALL	353456.5	3793255	NonCancer	2.70E-03
573	ALL	354123.1	3792943	NonCancer	2.70E-03
2181	ALL	353426.5	3793360	NonCancer	2.70E-03
159	ALL	353848.1	3792618	NonCancer	2.70E-03
2341	ALL	353366.5	3793465	NonCancer	2.69E-03
349	ALL	353948.1	3792768	NonCancer	2.69E-03
1248	ALL	353665.5	3792635	NonCancer	2.69E-03
1058	ALL	354473.1	3793393	NonCancer	2.69E-03
2276	ALL	353396.5	3793420	NonCancer	2.68E-03
2082	ALL	353441.5	3793300	NonCancer	2.68E-03
987	ALL	354448.1	3793293	NonCancer	2.68E-03
1913	ALL	353465.5	3793210	NonCancer	2.67E-03
2156	ALL	353426.5	3793345	NonCancer	2.66E-03
2229	ALL	353411.5	3793390	NonCancer	2.66E-03
1192	ALL	353715.5	3792585	NonCancer	2.66E-03
1591	ALL	353540.5	3792935	NonCancer	2.66E-03
541	ALL	354098.1	3792918	NonCancer	2.66E-03
2057	ALL	353441.5	3793285	NonCancer	2.65E-03
1042	ALL	354473.1	3793368	NonCancer	2.65E-03
735	ALL	354273.1	3793068	NonCancer	2.65E-03
948	ALL	354423.1	3793243	NonCancer	2.65E-03
191	ALL	353873.1	3792643	NonCancer	2.65E-03
768	ALL	354298.1	3793093	NonCancer	2.65E-03
127	ALL	353823.1	3792593	NonCancer	2.65E-03
801	ALL	354323.1	3793118	NonCancer	2.65E-03
2298	ALL	353381.5	3793435	NonCancer	2.65E-03
834	ALL	354348.1	3793143	NonCancer	2.64E-03
670	ALL	354223.1	3793018	NonCancer	2.64E-03
1677	ALL	353515.5	3793010	NonCancer	2.64E-03
638	ALL	354198.1	3792993	NonCancer	2.64E-03
509	ALL	354073.1	3792893	NonCancer	2.64E-03
702	ALL	354248.1	3793043	NonCancer	2.64E-03
2319	ALL	353366.5	3793450	NonCancer	2.63E-03
1794	ALL	353490.5	3793110	NonCancer	2.63E-03
2131	ALL	353426.5	3793330	NonCancer	2.63E-03

381	ALL	353973.1	3792793	NonCancer	2.63E-03
286	ALL	353923.1	3792718	NonCancer	2.62E-03
1333	ALL	353615.5	3792710	NonCancer	2.62E-03
2252	ALL	353396.5	3793405	NonCancer	2.62E-03
94	ALL	353773.1	3792568	NonCancer	2.62E-03
867	ALL	354373.1	3793168	NonCancer	2.62E-03
2032	ALL	353441.5	3793270	NonCancer	2.62E-03
1883	ALL	353465.5	3793185	NonCancer	2.62E-03
477	ALL	354048.1	3792868	NonCancer	2.61E-03
1476	ALL	353565.5	3792835	NonCancer	2.61E-03
2205	ALL	353411.5	3793375	NonCancer	2.61E-03
1026	ALL	354473.1	3793343	NonCancer	2.61E-03
2106	ALL	353426.5	3793315	NonCancer	2.60E-03
413	ALL	353998.1	3792818	NonCancer	2.60E-03
445	ALL	354023.1	3792843	NonCancer	2.59E-03
606	ALL	354173.1	3792968	NonCancer	2.59E-03
1562	ALL	353540.5	3792910	NonCancer	2.59E-03
2275	ALL	353381.5	3793420	NonCancer	2.59E-03
2180	ALL	353411.5	3793360	NonCancer	2.59E-03
2019	ALL	353441.5	3793255	NonCancer	2.59E-03
1390	ALL	353590.5	3792760	NonCancer	2.59E-03
968	ALL	354448.1	3793268	NonCancer	2.58E-03
2297	ALL	353366.5	3793435	NonCancer	2.58E-03
900	ALL	354398.1	3793193	NonCancer	2.58E-03
223	ALL	353898.1	3792668	NonCancer	2.58E-03
2081	ALL	353426.5	3793300	NonCancer	2.57E-03
574	ALL	354148.1	3792943	NonCancer	2.57E-03
1276	ALL	353640.5	3792660	NonCancer	2.57E-03
1648	ALL	353515.5	3792985	NonCancer	2.57E-03
1853	ALL	353465.5	3793160	NonCancer	2.57E-03
1764	ALL	353490.5	3793085	NonCancer	2.56E-03
2155	ALL	353411.5	3793345	NonCancer	2.56E-03
542	ALL	354123.1	3792918	NonCancer	2.56E-03
2228	ALL	353396.5	3793390	NonCancer	2.55E-03
1007	ALL	354473.1	3793318	NonCancer	2.55E-03
318	ALL	353948.1	3792743	NonCancer	2.55E-03
2056	ALL	353426.5	3793285	NonCancer	2.54E-03
932	ALL	354423.1	3793218	NonCancer	2.54E-03
510	ALL	354098.1	3792893	NonCancer	2.54E-03
2130	ALL	353411.5	3793330	NonCancer	2.53E-03
2251	ALL	353381.5	3793405	NonCancer	2.53E-03
350	ALL	353973.1	3792768	NonCancer	2.52E-03
2274	ALL	353366.5	3793420	NonCancer	2.52E-03
639	ALL	354223.1	3792993	NonCancer	2.52E-03
1533	ALL	353540.5	3792885	NonCancer	2.52E-03
1734	ALL	353490.5	3793060	NonCancer	2.52E-03
769	ALL	354323.1	3793093	NonCancer	2.52E-03

671	ALL	354248.1	3793018	NonCancer	2.52E-03
1074	ALL	354498.1	3793418	NonCancer	2.52E-03
1447	ALL	353565.5	3792810	NonCancer	2.52E-03
478	ALL	354073.1	3792868	NonCancer	2.52E-03
2031	ALL	353426.5	3793270	NonCancer	2.51E-03
802	ALL	354348.1	3793118	NonCancer	2.51E-03
736	ALL	354298.1	3793068	NonCancer	2.51E-03
703	ALL	354273.1	3793043	NonCancer	2.51E-03
1823	ALL	353465.5	3793135	NonCancer	2.51E-03
2204	ALL	353396.5	3793375	NonCancer	2.51E-03
2105	ALL	353411.5	3793315	NonCancer	2.50E-03
1619	ALL	353515.5	3792960	NonCancer	2.50E-03
382	ALL	353998.1	3792793	NonCancer	2.50E-03
255	ALL	353923.1	3792693	NonCancer	2.50E-03
1705	ALL	353490.5	3793035	NonCancer	2.49E-03
835	ALL	354373.1	3793143	NonCancer	2.49E-03
1912	ALL	353440.5	3793210	NonCancer	2.49E-03
446	ALL	354048.1	3792843	NonCancer	2.49E-03
949	ALL	354448.1	3793243	NonCancer	2.49E-03
2018	ALL	353426.5	3793255	NonCancer	2.48E-03
414	ALL	354023.1	3792818	NonCancer	2.48E-03
2179	ALL	353396.5	3793360	NonCancer	2.48E-03
988	ALL	354473.1	3793293	NonCancer	2.48E-03
607	ALL	354198.1	3792968	NonCancer	2.48E-03
1059	ALL	354498.1	3793393	NonCancer	2.48E-03
95	ALL	353798.1	3792568	NonCancer	2.47E-03
2080	ALL	353411.5	3793300	NonCancer	2.47E-03
575	ALL	354173.1	3792943	NonCancer	2.47E-03
1793	ALL	353465.5	3793110	NonCancer	2.46E-03
2250	ALL	353366.5	3793405	NonCancer	2.46E-03
2154	ALL	353396.5	3793345	NonCancer	2.46E-03
868	ALL	354398.1	3793168	NonCancer	2.46E-03
2227	ALL	353381.5	3793390	NonCancer	2.46E-03
1361	ALL	353590.5	3792735	NonCancer	2.45E-03
543	ALL	354148.1	3792918	NonCancer	2.45E-03
2055	ALL	353411.5	3793285	NonCancer	2.45E-03
1504	ALL	353540.5	3792860	NonCancer	2.44E-03
1882	ALL	353440.5	3793185	NonCancer	2.44E-03
1676	ALL	353490.5	3793010	NonCancer	2.44E-03
1043	ALL	354498.1	3793368	NonCancer	2.44E-03
511	ALL	354123.1	3792893	NonCancer	2.44E-03
1304	ALL	353615.5	3792685	NonCancer	2.43E-03
901	ALL	354423.1	3793193	NonCancer	2.43E-03
287	ALL	353948.1	3792718	NonCancer	2.43E-03
1590	ALL	353515.5	3792935	NonCancer	2.43E-03
2129	ALL	353396.5	3793330	NonCancer	2.43E-03
479	ALL	354098.1	3792868	NonCancer	2.42E-03

2030	ALL	353411.5	3793270	NonCancer	2.42E-03
160	ALL	353873.1	3792618	NonCancer	2.42E-03
1418	ALL	353565.5	3792785	NonCancer	2.41E-03
2203	ALL	353381.5	3793375	NonCancer	2.41E-03
640	ALL	354248.1	3792993	NonCancer	2.41E-03
2104	ALL	353396.5	3793315	NonCancer	2.40E-03
969	ALL	354473.1	3793268	NonCancer	2.40E-03
1027	ALL	354498.1	3793343	NonCancer	2.40E-03
672	ALL	354273.1	3793018	NonCancer	2.40E-03
447	ALL	354073.1	3792843	NonCancer	2.39E-03
770	ALL	354348.1	3793093	NonCancer	2.39E-03
319	ALL	353973.1	3792743	NonCancer	2.39E-03
192	ALL	353898.1	3792643	NonCancer	2.39E-03
737	ALL	354323.1	3793068	NonCancer	2.39E-03
2226	ALL	353366.5	3793390	NonCancer	2.39E-03
128	ALL	353848.1	3792593	NonCancer	2.39E-03
351	ALL	353998.1	3792768	NonCancer	2.39E-03
2017	ALL	353411.5	3793255	NonCancer	2.39E-03
1852	ALL	353440.5	3793160	NonCancer	2.39E-03
704	ALL	354298.1	3793043	NonCancer	2.39E-03
383	ALL	354023.1	3792793	NonCancer	2.39E-03
1763	ALL	353465.5	3793085	NonCancer	2.38E-03
415	ALL	354048.1	3792818	NonCancer	2.38E-03
2178	ALL	353381.5	3793360	NonCancer	2.38E-03
933	ALL	354448.1	3793218	NonCancer	2.38E-03
1075	ALL	354523.1	3793418	NonCancer	2.38E-03
803	ALL	354373.1	3793118	NonCancer	2.37E-03
2079	ALL	353396.5	3793300	NonCancer	2.37E-03
608	ALL	354223.1	3792968	NonCancer	2.37E-03
1647	ALL	353490.5	3792985	NonCancer	2.36E-03
544	ALL	354173.1	3792918	NonCancer	2.36E-03
1561	ALL	353515.5	3792910	NonCancer	2.36E-03
576	ALL	354198.1	3792943	NonCancer	2.36E-03
1475	ALL	353540.5	3792835	NonCancer	2.36E-03
224	ALL	353923.1	3792668	NonCancer	2.36E-03
2153	ALL	353381.5	3793345	NonCancer	2.36E-03
1219	ALL	353665.5	3792610	NonCancer	2.35E-03
1008	ALL	354498.1	3793318	NonCancer	2.35E-03
2054	ALL	353396.5	3793285	NonCancer	2.35E-03
836	ALL	354398.1	3793143	NonCancer	2.34E-03
512	ALL	354148.1	3792893	NonCancer	2.33E-03
1191	ALL	353690.5	3792585	NonCancer	2.33E-03
1822	ALL	353440.5	3793135	NonCancer	2.33E-03
2128	ALL	353381.5	3793330	NonCancer	2.33E-03
480	ALL	354123.1	3792868	NonCancer	2.33E-03
869	ALL	354423.1	3793168	NonCancer	2.33E-03
2202	ALL	353366.5	3793375	NonCancer	2.32E-03

2029	ALL	353396.5	3793270	NonCancer	2.32E-03
1911	ALL	353415.5	3793210	NonCancer	2.32E-03
1733	ALL	353465.5	3793060	NonCancer	2.32E-03
950	ALL	354473.1	3793243	NonCancer	2.32E-03
256	ALL	353948.1	3792693	NonCancer	2.32E-03
1247	ALL	353640.5	3792635	NonCancer	2.31E-03
1060	ALL	354523.1	3793393	NonCancer	2.31E-03
448	ALL	354098.1	3792843	NonCancer	2.30E-03
2103	ALL	353381.5	3793315	NonCancer	2.30E-03
1332	ALL	353590.5	3792710	NonCancer	2.30E-03
1389	ALL	353565.5	3792760	NonCancer	2.30E-03
1792	ALL	353440.5	3793110	NonCancer	2.30E-03
989	ALL	354498.1	3793293	NonCancer	2.30E-03
641	ALL	354273.1	3792993	NonCancer	2.30E-03
1618	ALL	353490.5	3792960	NonCancer	2.30E-03
2016	ALL	353396.5	3793255	NonCancer	2.29E-03
1532	ALL	353515.5	3792885	NonCancer	2.29E-03
96	ALL	353823.1	3792568	NonCancer	2.29E-03
416	ALL	354073.1	3792818	NonCancer	2.29E-03
2177	ALL	353366.5	3793360	NonCancer	2.29E-03
1704	ALL	353465.5	3793035	NonCancer	2.29E-03
384	ALL	354048.1	3792793	NonCancer	2.28E-03
288	ALL	353973.1	3792718	NonCancer	2.28E-03
673	ALL	354298.1	3793018	NonCancer	2.28E-03
738	ALL	354348.1	3793068	NonCancer	2.28E-03
902	ALL	354448.1	3793193	NonCancer	2.28E-03
2078	ALL	353381.5	3793300	NonCancer	2.28E-03
1881	ALL	353415.5	3793185	NonCancer	2.28E-03
705	ALL	354323.1	3793043	NonCancer	2.28E-03
1044	ALL	354523.1	3793368	NonCancer	2.28E-03
352	ALL	354023.1	3792768	NonCancer	2.27E-03
1446	ALL	353540.5	3792810	NonCancer	2.27E-03
320	ALL	353998.1	3792743	NonCancer	2.27E-03
609	ALL	354248.1	3792968	NonCancer	2.27E-03
771	ALL	354373.1	3793093	NonCancer	2.26E-03
513	ALL	354173.1	3792893	NonCancer	2.26E-03
545	ALL	354198.1	3792918	NonCancer	2.26E-03
577	ALL	354223.1	3792943	NonCancer	2.26E-03
2152	ALL	353366.5	3793345	NonCancer	2.26E-03
1076	ALL	354548.1	3793418	NonCancer	2.25E-03
2053	ALL	353381.5	3793285	NonCancer	2.25E-03
1675	ALL	353465.5	3793010	NonCancer	2.25E-03
1762	ALL	353440.5	3793085	NonCancer	2.24E-03
1028	ALL	354523.1	3793343	NonCancer	2.24E-03
1275	ALL	353615.5	3792660	NonCancer	2.24E-03
970	ALL	354498.1	3793268	NonCancer	2.24E-03
804	ALL	354398.1	3793118	NonCancer	2.23E-03

1589	ALL	353490.5	3792935	NonCancer	2.23E-03
481	ALL	354148.1	3792868	NonCancer	2.23E-03
2127	ALL	353366.5	3793330	NonCancer	2.23E-03
1163	ALL	353715.5	3792560	NonCancer	2.23E-03
1851	ALL	353415.5	3793160	NonCancer	2.23E-03
2028	ALL	353381.5	3793270	NonCancer	2.23E-03
837	ALL	354423.1	3793143	NonCancer	2.22E-03
934	ALL	354473.1	3793218	NonCancer	2.22E-03
449	ALL	354123.1	3792843	NonCancer	2.22E-03
1503	ALL	353515.5	3792860	NonCancer	2.22E-03
161	ALL	353898.1	3792618	NonCancer	2.21E-03
193	ALL	353923.1	3792643	NonCancer	2.21E-03
417	ALL	354098.1	3792818	NonCancer	2.21E-03
2102	ALL	353366.5	3793315	NonCancer	2.21E-03
1009	ALL	354523.1	3793318	NonCancer	2.20E-03
2015	ALL	353381.5	3793255	NonCancer	2.20E-03
63	ALL	353773.1	3792543	NonCancer	2.19E-03
129	ALL	353873.1	3792593	NonCancer	2.19E-03
225	ALL	353948.1	3792668	NonCancer	2.19E-03
642	ALL	354298.1	3792993	NonCancer	2.19E-03
385	ALL	354073.1	3792793	NonCancer	2.19E-03
1061	ALL	354548.1	3793393	NonCancer	2.19E-03
870	ALL	354448.1	3793168	NonCancer	2.19E-03
1360	ALL	353565.5	3792735	NonCancer	2.19E-03
1646	ALL	353465.5	3792985	NonCancer	2.18E-03
257	ALL	353973.1	3792693	NonCancer	2.18E-03
2077	ALL	353366.5	3793300	NonCancer	2.18E-03
1417	ALL	353540.5	3792785	NonCancer	2.18E-03
674	ALL	354323.1	3793018	NonCancer	2.18E-03
1821	ALL	353415.5	3793135	NonCancer	2.17E-03
353	ALL	354048.1	3792768	NonCancer	2.17E-03
514	ALL	354198.1	3792893	NonCancer	2.17E-03
706	ALL	354348.1	3793043	NonCancer	2.17E-03
1560	ALL	353490.5	3792910	NonCancer	2.17E-03
1732	ALL	353440.5	3793060	NonCancer	2.17E-03
546	ALL	354223.1	3792918	NonCancer	2.17E-03
1910	ALL	353390.5	3793210	NonCancer	2.17E-03
482	ALL	354173.1	3792868	NonCancer	2.16E-03
289	ALL	353998.1	3792718	NonCancer	2.16E-03
610	ALL	354273.1	3792968	NonCancer	2.16E-03
951	ALL	354498.1	3793243	NonCancer	2.16E-03
321	ALL	354023.1	3792743	NonCancer	2.16E-03
578	ALL	354248.1	3792943	NonCancer	2.16E-03
739	ALL	354373.1	3793068	NonCancer	2.16E-03
990	ALL	354523.1	3793293	NonCancer	2.15E-03
1045	ALL	354548.1	3793368	NonCancer	2.15E-03
2052	ALL	353366.5	3793285	NonCancer	2.15E-03

1303	ALL	353590.5	3792685	NonCancer	2.15E-03
1474	ALL	353515.5	3792835	NonCancer	2.15E-03
1791	ALL	353415.5	3793110	NonCancer	2.14E-03
903	ALL	354473.1	3793193	NonCancer	2.14E-03
772	ALL	354398.1	3793093	NonCancer	2.14E-03
64	ALL	353798.1	3792543	NonCancer	2.13E-03
450	ALL	354148.1	3792843	NonCancer	2.13E-03
805	ALL	354423.1	3793118	NonCancer	2.13E-03
2027	ALL	353366.5	3793270	NonCancer	2.13E-03
418	ALL	354123.1	3792818	NonCancer	2.13E-03
1880	ALL	353390.5	3793185	NonCancer	2.13E-03
1617	ALL	353465.5	3792960	NonCancer	2.12E-03
97	ALL	353848.1	3792568	NonCancer	2.12E-03
1029	ALL	354548.1	3793343	NonCancer	2.12E-03
386	ALL	354098.1	3792793	NonCancer	2.11E-03
1761	ALL	353415.5	3793085	NonCancer	2.11E-03
2014	ALL	353366.5	3793255	NonCancer	2.11E-03
1703	ALL	353440.5	3793035	NonCancer	2.10E-03
1531	ALL	353490.5	3792885	NonCancer	2.10E-03
838	ALL	354448.1	3793143	NonCancer	2.10E-03
971	ALL	354523.1	3793268	NonCancer	2.10E-03
643	ALL	354323.1	3792993	NonCancer	2.09E-03
935	ALL	354498.1	3793218	NonCancer	2.09E-03
354	ALL	354073.1	3792768	NonCancer	2.09E-03
1850	ALL	353390.5	3793160	NonCancer	2.08E-03
515	ALL	354223.1	3792893	NonCancer	2.08E-03
1388	ALL	353540.5	3792760	NonCancer	2.08E-03
1218	ALL	353640.5	3792610	NonCancer	2.08E-03
483	ALL	354198.1	3792868	NonCancer	2.08E-03
1674	ALL	353440.5	3793010	NonCancer	2.08E-03
547	ALL	354248.1	3792918	NonCancer	2.08E-03
1190	ALL	353665.5	3792585	NonCancer	2.08E-03
1010	ALL	354548.1	3793318	NonCancer	2.07E-03
675	ALL	354348.1	3793018	NonCancer	2.07E-03
258	ALL	353998.1	3792693	NonCancer	2.07E-03
322	ALL	354048.1	3792743	NonCancer	2.07E-03
226	ALL	353973.1	3792668	NonCancer	2.07E-03
611	ALL	354298.1	3792968	NonCancer	2.07E-03
1445	ALL	353515.5	3792810	NonCancer	2.07E-03
579	ALL	354273.1	3792943	NonCancer	2.07E-03
1588	ALL	353465.5	3792935	NonCancer	2.07E-03
194	ALL	353948.1	3792643	NonCancer	2.06E-03
290	ALL	354023.1	3792718	NonCancer	2.06E-03
1331	ALL	353565.5	3792710	NonCancer	2.06E-03
162	ALL	353923.1	3792618	NonCancer	2.06E-03
871	ALL	354473.1	3793168	NonCancer	2.06E-03
707	ALL	354373.1	3793043	NonCancer	2.06E-03

451	ALL	354173.1	3792843	NonCancer	2.05E-03
1246	ALL	353615.5	3792635	NonCancer	2.05E-03
419	ALL	354148.1	3792818	NonCancer	2.05E-03
1731	ALL	353415.5	3793060	NonCancer	2.05E-03
387	ALL	354123.1	3792793	NonCancer	2.04E-03
773	ALL	354423.1	3793093	NonCancer	2.04E-03
740	ALL	354398.1	3793068	NonCancer	2.04E-03
130	ALL	353898.1	3792593	NonCancer	2.04E-03
1502	ALL	353490.5	3792860	NonCancer	2.04E-03
952	ALL	354523.1	3793243	NonCancer	2.04E-03
1820	ALL	353390.5	3793135	NonCancer	2.03E-03
1162	ALL	353690.5	3792560	NonCancer	2.03E-03
65	ALL	353823.1	3792543	NonCancer	2.03E-03
1645	ALL	353440.5	3792985	NonCancer	2.03E-03
991	ALL	354548.1	3793293	NonCancer	2.03E-03
1909	ALL	353365.5	3793210	NonCancer	2.03E-03
904	ALL	354498.1	3793193	NonCancer	2.02E-03
355	ALL	354098.1	3792768	NonCancer	2.02E-03
806	ALL	354448.1	3793118	NonCancer	2.01E-03
1790	ALL	353390.5	3793110	NonCancer	2.01E-03
1559	ALL	353465.5	3792910	NonCancer	2.01E-03
516	ALL	354248.1	3792893	NonCancer	2.00E-03
1274	ALL	353590.5	3792660	NonCancer	2.00E-03
644	ALL	354348.1	3792993	NonCancer	2.00E-03
484	ALL	354223.1	3792868	NonCancer	1.99E-03
323	ALL	354073.1	3792743	NonCancer	1.99E-03
548	ALL	354273.1	3792918	NonCancer	1.99E-03
1879	ALL	353365.5	3793185	NonCancer	1.99E-03
1416	ALL	353515.5	3792785	NonCancer	1.99E-03
98	ALL	353873.1	3792568	NonCancer	1.98E-03
580	ALL	354298.1	3792943	NonCancer	1.98E-03
839	ALL	354473.1	3793143	NonCancer	1.98E-03
612	ALL	354323.1	3792968	NonCancer	1.98E-03
1359	ALL	353540.5	3792735	NonCancer	1.98E-03
1702	ALL	353415.5	3793035	NonCancer	1.98E-03
291	ALL	354048.1	3792718	NonCancer	1.98E-03
259	ALL	354023.1	3792693	NonCancer	1.98E-03
936	ALL	354523.1	3793218	NonCancer	1.98E-03
1616	ALL	353440.5	3792960	NonCancer	1.97E-03
972	ALL	354548.1	3793268	NonCancer	1.97E-03
452	ALL	354198.1	3792843	NonCancer	1.97E-03
1760	ALL	353390.5	3793085	NonCancer	1.97E-03
676	ALL	354373.1	3793018	NonCancer	1.97E-03
227	ALL	353998.1	3792668	NonCancer	1.97E-03
1473	ALL	353490.5	3792835	NonCancer	1.97E-03
420	ALL	354173.1	3792818	NonCancer	1.97E-03
388	ALL	354148.1	3792793	NonCancer	1.96E-03

356	ALL	354123.1	3792768	NonCancer	1.96E-03
741	ALL	354423.1	3793068	NonCancer	1.96E-03
708	ALL	354398.1	3793043	NonCancer	1.96E-03
195	ALL	353973.1	3792643	NonCancer	1.95E-03
872	ALL	354498.1	3793168	NonCancer	1.95E-03
1849	ALL	353365.5	3793160	NonCancer	1.95E-03
1530	ALL	353465.5	3792885	NonCancer	1.94E-03
163	ALL	353948.1	3792618	NonCancer	1.94E-03
1302	ALL	353565.5	3792685	NonCancer	1.94E-03
774	ALL	354448.1	3793093	NonCancer	1.93E-03
1134	ALL	353715.5	3792535	NonCancer	1.93E-03
324	ALL	354098.1	3792743	NonCancer	1.93E-03
1730	ALL	353390.5	3793060	NonCancer	1.93E-03
1587	ALL	353440.5	3792935	NonCancer	1.92E-03
517	ALL	354273.1	3792893	NonCancer	1.92E-03
953	ALL	354548.1	3793243	NonCancer	1.92E-03
1673	ALL	353415.5	3793010	NonCancer	1.92E-03
131	ALL	353923.1	3792593	NonCancer	1.92E-03
485	ALL	354248.1	3792868	NonCancer	1.92E-03
66	ALL	353848.1	3792543	NonCancer	1.91E-03
905	ALL	354523.1	3793193	NonCancer	1.91E-03
549	ALL	354298.1	3792918	NonCancer	1.91E-03
807	ALL	354473.1	3793118	NonCancer	1.91E-03
292	ALL	354073.1	3792718	NonCancer	1.91E-03
1819	ALL	353365.5	3793135	NonCancer	1.91E-03
1908	ALL	353340.5	3793210	NonCancer	1.91E-03
32	ALL	353773.1	3792518	NonCancer	1.90E-03
1387	ALL	353515.5	3792760	NonCancer	1.90E-03
1444	ALL	353490.5	3792810	NonCancer	1.90E-03
645	ALL	354373.1	3792993	NonCancer	1.90E-03
389	ALL	354173.1	3792793	NonCancer	1.90E-03
613	ALL	354348.1	3792968	NonCancer	1.90E-03
453	ALL	354223.1	3792843	NonCancer	1.89E-03
421	ALL	354198.1	3792818	NonCancer	1.89E-03
581	ALL	354323.1	3792943	NonCancer	1.89E-03
260	ALL	354048.1	3792693	NonCancer	1.89E-03
1644	ALL	353415.5	3792985	NonCancer	1.89E-03
228	ALL	354023.1	3792668	NonCancer	1.89E-03
1501	ALL	353465.5	3792860	NonCancer	1.88E-03
357	ALL	354148.1	3792768	NonCancer	1.88E-03
840	ALL	354498.1	3793143	NonCancer	1.88E-03
1189	ALL	353640.5	3792585	NonCancer	1.88E-03
677	ALL	354398.1	3793018	NonCancer	1.88E-03
325	ALL	354123.1	3792743	NonCancer	1.88E-03
1217	ALL	353615.5	3792610	NonCancer	1.88E-03
33	ALL	353798.1	3792518	NonCancer	1.87E-03
1330	ALL	353540.5	3792710	NonCancer	1.87E-03

1789	ALL	353365.5	3793110	NonCancer	1.87E-03
709	ALL	354423.1	3793043	NonCancer	1.87E-03
1878	ALL	353340.5	3793185	NonCancer	1.87E-03
99	ALL	353898.1	3792568	NonCancer	1.87E-03
1701	ALL	353390.5	3793035	NonCancer	1.87E-03
937	ALL	354548.1	3793218	NonCancer	1.87E-03
196	ALL	353998.1	3792643	NonCancer	1.87E-03
1558	ALL	353440.5	3792910	NonCancer	1.87E-03
742	ALL	354448.1	3793068	NonCancer	1.86E-03
1161	ALL	353665.5	3792560	NonCancer	1.85E-03
873	ALL	354523.1	3793168	NonCancer	1.85E-03
1245	ALL	353590.5	3792635	NonCancer	1.85E-03
293	ALL	354098.1	3792718	NonCancer	1.85E-03
164	ALL	353973.1	3792618	NonCancer	1.85E-03
486	ALL	354273.1	3792868	NonCancer	1.84E-03
518	ALL	354298.1	3792893	NonCancer	1.84E-03
1615	ALL	353415.5	3792960	NonCancer	1.84E-03
1759	ALL	353365.5	3793085	NonCancer	1.84E-03
775	ALL	354473.1	3793093	NonCancer	1.84E-03
1848	ALL	353340.5	3793160	NonCancer	1.83E-03
1415	ALL	353490.5	3792785	NonCancer	1.83E-03
390	ALL	354198.1	3792793	NonCancer	1.83E-03
550	ALL	354323.1	3792918	NonCancer	1.82E-03
454	ALL	354248.1	3792843	NonCancer	1.82E-03
358	ALL	354173.1	3792768	NonCancer	1.82E-03
422	ALL	354223.1	3792818	NonCancer	1.82E-03
582	ALL	354348.1	3792943	NonCancer	1.82E-03
132	ALL	353948.1	3792593	NonCancer	1.82E-03
614	ALL	354373.1	3792968	NonCancer	1.82E-03
261	ALL	354073.1	3792693	NonCancer	1.82E-03
1472	ALL	353465.5	3792835	NonCancer	1.82E-03
67	ALL	353873.1	3792543	NonCancer	1.81E-03
1273	ALL	353565.5	3792660	NonCancer	1.81E-03
34	ALL	353823.1	3792518	NonCancer	1.81E-03
1358	ALL	353515.5	3792735	NonCancer	1.81E-03
808	ALL	354498.1	3793118	NonCancer	1.81E-03
906	ALL	354548.1	3793193	NonCancer	1.81E-03
1529	ALL	353440.5	3792885	NonCancer	1.81E-03
229	ALL	354048.1	3792668	NonCancer	1.81E-03
1672	ALL	353390.5	3793010	NonCancer	1.80E-03
326	ALL	354148.1	3792743	NonCancer	1.80E-03
646	ALL	354398.1	3792993	NonCancer	1.80E-03
1133	ALL	353690.5	3792535	NonCancer	1.80E-03
1729	ALL	353365.5	3793060	NonCancer	1.80E-03
1907	ALL	353315.5	3793210	NonCancer	1.79E-03
678	ALL	354423.1	3793018	NonCancer	1.79E-03
1818	ALL	353340.5	3793135	NonCancer	1.79E-03

1586	ALL	353415.5	3792935	NonCancer	1.79E-03
197	ALL	354023.1	3792643	NonCancer	1.79E-03
841	ALL	354523.1	3793143	NonCancer	1.79E-03
294	ALL	354123.1	3792718	NonCancer	1.79E-03
710	ALL	354448.1	3793043	NonCancer	1.78E-03
100	ALL	353923.1	3792568	NonCancer	1.78E-03
487	ALL	354298.1	3792868	NonCancer	1.77E-03
1301	ALL	353540.5	3792685	NonCancer	1.77E-03
165	ALL	353998.1	3792618	NonCancer	1.77E-03
743	ALL	354473.1	3793068	NonCancer	1.77E-03
519	ALL	354323.1	3792893	NonCancer	1.77E-03
262	ALL	354098.1	3792693	NonCancer	1.76E-03
1788	ALL	353340.5	3793110	NonCancer	1.76E-03
1877	ALL	353315.5	3793185	NonCancer	1.76E-03
391	ALL	354223.1	3792793	NonCancer	1.76E-03
359	ALL	354198.1	3792768	NonCancer	1.76E-03
551	ALL	354348.1	3792918	NonCancer	1.76E-03
1443	ALL	353465.5	3792810	NonCancer	1.75E-03
1643	ALL	353390.5	3792985	NonCancer	1.75E-03
874	ALL	354548.1	3793168	NonCancer	1.75E-03
1700	ALL	353365.5	3793035	NonCancer	1.75E-03
423	ALL	354248.1	3792818	NonCancer	1.75E-03
455	ALL	354273.1	3792843	NonCancer	1.75E-03
1500	ALL	353440.5	3792860	NonCancer	1.75E-03
1386	ALL	353490.5	3792760	NonCancer	1.75E-03
776	ALL	354498.1	3793093	NonCancer	1.75E-03
583	ALL	354373.1	3792943	NonCancer	1.74E-03
327	ALL	354173.1	3792743	NonCancer	1.74E-03
133	ALL	353973.1	3792593	NonCancer	1.74E-03
1557	ALL	353415.5	3792910	NonCancer	1.74E-03
35	ALL	353848.1	3792518	NonCancer	1.74E-03
230	ALL	354073.1	3792668	NonCancer	1.74E-03
647	ALL	354423.1	3792993	NonCancer	1.73E-03
615	ALL	354398.1	3792968	NonCancer	1.73E-03
68	ALL	353898.1	3792543	NonCancer	1.73E-03
1758	ALL	353340.5	3793085	NonCancer	1.73E-03
295	ALL	354148.1	3792718	NonCancer	1.73E-03
809	ALL	354523.1	3793118	NonCancer	1.73E-03
1847	ALL	353315.5	3793160	NonCancer	1.72E-03
1188	ALL	353615.5	3792585	NonCancer	1.72E-03
1329	ALL	353515.5	3792710	NonCancer	1.72E-03
1105	ALL	353715.5	3792510	NonCancer	1.72E-03
198	ALL	354048.1	3792643	NonCancer	1.72E-03
1614	ALL	353390.5	3792960	NonCancer	1.72E-03
1216	ALL	353590.5	3792610	NonCancer	1.71E-03
679	ALL	354448.1	3793018	NonCancer	1.71E-03
263	ALL	354123.1	3792693	NonCancer	1.71E-03

1160	ALL	353640.5	3792560	NonCancer	1.71E-03
1671	ALL	353365.5	3793010	NonCancer	1.71E-03
488	ALL	354323.1	3792868	NonCancer	1.70E-03
360	ALL	354223.1	3792768	NonCancer	1.70E-03
711	ALL	354473.1	3793043	NonCancer	1.70E-03
166	ALL	354023.1	3792618	NonCancer	1.70E-03
101	ALL	353948.1	3792568	NonCancer	1.70E-03
842	ALL	354548.1	3793143	NonCancer	1.70E-03
520	ALL	354348.1	3792893	NonCancer	1.69E-03
392	ALL	354248.1	3792793	NonCancer	1.69E-03
1244	ALL	353565.5	3792635	NonCancer	1.69E-03
1906	ALL	353290.5	3793210	NonCancer	1.69E-03
1414	ALL	353465.5	3792785	NonCancer	1.69E-03
1	ALL	353773.1	3792493	NonCancer	1.69E-03
1728	ALL	353340.5	3793060	NonCancer	1.69E-03
1471	ALL	353440.5	3792835	NonCancer	1.69E-03
328	ALL	354198.1	3792743	NonCancer	1.69E-03
1528	ALL	353415.5	3792885	NonCancer	1.69E-03
424	ALL	354273.1	3792818	NonCancer	1.69E-03
744	ALL	354498.1	3793068	NonCancer	1.69E-03
456	ALL	354298.1	3792843	NonCancer	1.68E-03
1817	ALL	353315.5	3793135	NonCancer	1.68E-03
2	ALL	353798.1	3792493	NonCancer	1.68E-03
231	ALL	354098.1	3792668	NonCancer	1.68E-03
1132	ALL	353665.5	3792535	NonCancer	1.68E-03
1585	ALL	353390.5	3792935	NonCancer	1.68E-03
134	ALL	353998.1	3792593	NonCancer	1.67E-03
1357	ALL	353490.5	3792735	NonCancer	1.67E-03
552	ALL	354373.1	3792918	NonCancer	1.67E-03
296	ALL	354173.1	3792718	NonCancer	1.67E-03
777	ALL	354523.1	3793093	NonCancer	1.67E-03
36	ALL	353873.1	3792518	NonCancer	1.67E-03
616	ALL	354423.1	3792968	NonCancer	1.67E-03
1272	ALL	353540.5	3792660	NonCancer	1.66E-03
1787	ALL	353315.5	3793110	NonCancer	1.66E-03
584	ALL	354398.1	3792943	NonCancer	1.66E-03
199	ALL	354073.1	3792643	NonCancer	1.66E-03
1876	ALL	353290.5	3793185	NonCancer	1.66E-03
69	ALL	353923.1	3792543	NonCancer	1.66E-03
648	ALL	354448.1	3792993	NonCancer	1.66E-03
264	ALL	354148.1	3792693	NonCancer	1.65E-03
1642	ALL	353365.5	3792985	NonCancer	1.65E-03
1699	ALL	353340.5	3793035	NonCancer	1.65E-03
3	ALL	353823.1	3792493	NonCancer	1.65E-03
361	ALL	354248.1	3792768	NonCancer	1.65E-03
810	ALL	354548.1	3793118	NonCancer	1.64E-03
329	ALL	354223.1	3792743	NonCancer	1.64E-03

167	ALL	354048.1	3792618	NonCancer	1.64E-03
1757	ALL	353315.5	3793085	NonCancer	1.64E-03
680	ALL	354473.1	3793018	NonCancer	1.64E-03
489	ALL	354348.1	3792868	NonCancer	1.63E-03
102	ALL	353973.1	3792568	NonCancer	1.63E-03
1499	ALL	353415.5	3792860	NonCancer	1.63E-03
393	ALL	354273.1	3792793	NonCancer	1.63E-03
1300	ALL	353515.5	3792685	NonCancer	1.63E-03
1104	ALL	353690.5	3792510	NonCancer	1.63E-03
1442	ALL	353440.5	3792810	NonCancer	1.63E-03
1556	ALL	353390.5	3792910	NonCancer	1.63E-03
232	ALL	354123.1	3792668	NonCancer	1.63E-03
297	ALL	354198.1	3792718	NonCancer	1.63E-03
712	ALL	354498.1	3793043	NonCancer	1.62E-03
1385	ALL	353465.5	3792760	NonCancer	1.62E-03
425	ALL	354298.1	3792818	NonCancer	1.62E-03
1846	ALL	353290.5	3793160	NonCancer	1.62E-03
457	ALL	354323.1	3792843	NonCancer	1.62E-03
135	ALL	354023.1	3792593	NonCancer	1.61E-03
745	ALL	354523.1	3793068	NonCancer	1.61E-03
265	ALL	354173.1	3792693	NonCancer	1.61E-03
330	ALL	354248.1	3792743	NonCancer	1.61E-03
521	ALL	354373.1	3792893	NonCancer	1.61E-03
1670	ALL	353340.5	3793010	NonCancer	1.61E-03
1613	ALL	353365.5	3792960	NonCancer	1.61E-03
37	ALL	353898.1	3792518	NonCancer	1.61E-03
585	ALL	354423.1	3792943	NonCancer	1.60E-03
200	ALL	354098.1	3792643	NonCancer	1.60E-03
1727	ALL	353315.5	3793060	NonCancer	1.60E-03
4	ALL	353848.1	3792493	NonCancer	1.60E-03
553	ALL	354398.1	3792918	NonCancer	1.60E-03
362	ALL	354273.1	3792768	NonCancer	1.59E-03
70	ALL	353948.1	3792543	NonCancer	1.59E-03
617	ALL	354448.1	3792968	NonCancer	1.59E-03
1905	ALL	353265.5	3793210	NonCancer	1.59E-03
1328	ALL	353490.5	3792710	NonCancer	1.59E-03
778	ALL	354548.1	3793093	NonCancer	1.59E-03
1187	ALL	353590.5	3792585	NonCancer	1.59E-03
298	ALL	354223.1	3792718	NonCancer	1.59E-03
1159	ALL	353615.5	3792560	NonCancer	1.58E-03
1816	ALL	353290.5	3793135	NonCancer	1.58E-03
168	ALL	354073.1	3792618	NonCancer	1.58E-03
649	ALL	354473.1	3792993	NonCancer	1.58E-03
1527	ALL	353390.5	3792885	NonCancer	1.58E-03
1215	ALL	353565.5	3792610	NonCancer	1.58E-03
1470	ALL	353415.5	3792835	NonCancer	1.58E-03
103	ALL	353998.1	3792568	NonCancer	1.58E-03

233	ALL	354148.1	3792668	NonCancer	1.57E-03
394	ALL	354298.1	3792793	NonCancer	1.57E-03
1413	ALL	353440.5	3792785	NonCancer	1.57E-03
1641	ALL	353340.5	3792985	NonCancer	1.57E-03
1584	ALL	353365.5	3792935	NonCancer	1.57E-03
299	ALL	354248.1	3792718	NonCancer	1.57E-03
1131	ALL	353640.5	3792535	NonCancer	1.57E-03
331	ALL	354273.1	3792743	NonCancer	1.57E-03
681	ALL	354498.1	3793018	NonCancer	1.56E-03
1243	ALL	353540.5	3792635	NonCancer	1.56E-03
1786	ALL	353290.5	3793110	NonCancer	1.56E-03
266	ALL	354198.1	3792693	NonCancer	1.56E-03
1875	ALL	353265.5	3793185	NonCancer	1.56E-03
426	ALL	354323.1	3792818	NonCancer	1.56E-03
136	ALL	354048.1	3792593	NonCancer	1.56E-03
458	ALL	354348.1	3792843	NonCancer	1.56E-03
1698	ALL	353315.5	3793035	NonCancer	1.56E-03
713	ALL	354523.1	3793043	NonCancer	1.56E-03
1356	ALL	353465.5	3792735	NonCancer	1.55E-03
201	ALL	354123.1	3792643	NonCancer	1.55E-03
5	ALL	353873.1	3792493	NonCancer	1.55E-03
38	ALL	353923.1	3792518	NonCancer	1.55E-03
490	ALL	354373.1	3792868	NonCancer	1.55E-03
554	ALL	354423.1	3792918	NonCancer	1.54E-03
1756	ALL	353290.5	3793085	NonCancer	1.54E-03
1271	ALL	353515.5	3792660	NonCancer	1.54E-03
71	ALL	353973.1	3792543	NonCancer	1.54E-03
746	ALL	354548.1	3793068	NonCancer	1.54E-03
363	ALL	354298.1	3792768	NonCancer	1.54E-03
522	ALL	354398.1	3792893	NonCancer	1.54E-03
1103	ALL	353665.5	3792510	NonCancer	1.54E-03
234	ALL	354173.1	3792668	NonCancer	1.53E-03
586	ALL	354448.1	3792943	NonCancer	1.53E-03
1498	ALL	353390.5	3792860	NonCancer	1.53E-03
169	ALL	354098.1	3792618	NonCancer	1.53E-03
1555	ALL	353365.5	3792910	NonCancer	1.53E-03
1845	ALL	353265.5	3793160	NonCancer	1.53E-03
104	ALL	354023.1	3792568	NonCancer	1.53E-03
618	ALL	354473.1	3792968	NonCancer	1.53E-03
1441	ALL	353415.5	3792810	NonCancer	1.52E-03
1612	ALL	353340.5	3792960	NonCancer	1.52E-03
267	ALL	354223.1	3792693	NonCancer	1.52E-03
1669	ALL	353315.5	3793010	NonCancer	1.52E-03
300	ALL	354273.1	3792718	NonCancer	1.51E-03
650	ALL	354498.1	3792993	NonCancer	1.51E-03
1299	ALL	353490.5	3792685	NonCancer	1.51E-03
395	ALL	354323.1	3792793	NonCancer	1.51E-03

137	ALL	354073.1	3792593	NonCancer	1.51E-03
332	ALL	354298.1	3792743	NonCancer	1.51E-03
1384	ALL	353440.5	3792760	NonCancer	1.51E-03
1726	ALL	353290.5	3793060	NonCancer	1.51E-03
1904	ALL	353240.5	3793210	NonCancer	1.50E-03
427	ALL	354348.1	3792818	NonCancer	1.50E-03
6	ALL	353898.1	3792493	NonCancer	1.50E-03
202	ALL	354148.1	3792643	NonCancer	1.50E-03
39	ALL	353948.1	3792518	NonCancer	1.50E-03
682	ALL	354523.1	3793018	NonCancer	1.50E-03
1815	ALL	353265.5	3793135	NonCancer	1.49E-03
459	ALL	354373.1	3792843	NonCancer	1.49E-03
72	ALL	353998.1	3792543	NonCancer	1.49E-03
714	ALL	354548.1	3793043	NonCancer	1.49E-03
1526	ALL	353365.5	3792885	NonCancer	1.49E-03
268	ALL	354248.1	3792693	NonCancer	1.48E-03
235	ALL	354198.1	3792668	NonCancer	1.48E-03
523	ALL	354423.1	3792893	NonCancer	1.48E-03
1327	ALL	353465.5	3792710	NonCancer	1.48E-03
1469	ALL	353390.5	3792835	NonCancer	1.48E-03
170	ALL	354123.1	3792618	NonCancer	1.48E-03
491	ALL	354398.1	3792868	NonCancer	1.48E-03
364	ALL	354323.1	3792768	NonCancer	1.48E-03
105	ALL	354048.1	3792568	NonCancer	1.48E-03
1640	ALL	353315.5	3792985	NonCancer	1.48E-03
1186	ALL	353565.5	3792585	NonCancer	1.48E-03
1158	ALL	353590.5	3792560	NonCancer	1.48E-03
555	ALL	354448.1	3792918	NonCancer	1.48E-03
1583	ALL	353340.5	3792935	NonCancer	1.47E-03
1874	ALL	353240.5	3793185	NonCancer	1.47E-03
1785	ALL	353265.5	3793110	NonCancer	1.47E-03
1214	ALL	353540.5	3792610	NonCancer	1.47E-03
587	ALL	354473.1	3792943	NonCancer	1.47E-03
1697	ALL	353290.5	3793035	NonCancer	1.47E-03
1130	ALL	353615.5	3792535	NonCancer	1.47E-03
1412	ALL	353415.5	3792785	NonCancer	1.47E-03
138	ALL	354098.1	3792593	NonCancer	1.46E-03
619	ALL	354498.1	3792968	NonCancer	1.46E-03
1242	ALL	353515.5	3792635	NonCancer	1.46E-03
301	ALL	354298.1	3792718	NonCancer	1.46E-03
333	ALL	354323.1	3792743	NonCancer	1.46E-03
396	ALL	354348.1	3792793	NonCancer	1.45E-03
7	ALL	353923.1	3792493	NonCancer	1.45E-03
651	ALL	354523.1	3792993	NonCancer	1.45E-03
40	ALL	353973.1	3792518	NonCancer	1.45E-03
203	ALL	354173.1	3792643	NonCancer	1.45E-03
1755	ALL	353265.5	3793085	NonCancer	1.45E-03

1355	ALL	353440.5	3792735	NonCancer	1.45E-03
1102	ALL	353640.5	3792510	NonCancer	1.45E-03
269	ALL	354273.1	3792693	NonCancer	1.45E-03
73	ALL	354023.1	3792543	NonCancer	1.45E-03
1611	ALL	353315.5	3792960	NonCancer	1.44E-03
1844	ALL	353240.5	3793160	NonCancer	1.44E-03
1497	ALL	353365.5	3792860	NonCancer	1.44E-03
236	ALL	354223.1	3792668	NonCancer	1.44E-03
428	ALL	354373.1	3792818	NonCancer	1.44E-03
1270	ALL	353490.5	3792660	NonCancer	1.44E-03
106	ALL	354073.1	3792568	NonCancer	1.44E-03
1554	ALL	353340.5	3792910	NonCancer	1.44E-03
171	ALL	354148.1	3792618	NonCancer	1.44E-03
1668	ALL	353290.5	3793010	NonCancer	1.43E-03
1440	ALL	353390.5	3792810	NonCancer	1.43E-03
460	ALL	354398.1	3792843	NonCancer	1.43E-03
492	ALL	354423.1	3792868	NonCancer	1.43E-03
1903	ALL	353215.5	3793210	NonCancer	1.42E-03
1725	ALL	353265.5	3793060	NonCancer	1.42E-03
524	ALL	354448.1	3792893	NonCancer	1.42E-03
139	ALL	354123.1	3792593	NonCancer	1.42E-03
556	ALL	354473.1	3792918	NonCancer	1.42E-03
1298	ALL	353465.5	3792685	NonCancer	1.41E-03
365	ALL	354348.1	3792768	NonCancer	1.41E-03
8	ALL	353948.1	3792493	NonCancer	1.41E-03
1814	ALL	353240.5	3793135	NonCancer	1.41E-03
1383	ALL	353415.5	3792760	NonCancer	1.41E-03
41	ALL	353998.1	3792518	NonCancer	1.41E-03
302	ALL	354323.1	3792718	NonCancer	1.41E-03
588	ALL	354498.1	3792943	NonCancer	1.41E-03
204	ALL	354198.1	3792643	NonCancer	1.41E-03
620	ALL	354523.1	3792968	NonCancer	1.40E-03
74	ALL	354048.1	3792543	NonCancer	1.40E-03
1525	ALL	353340.5	3792885	NonCancer	1.40E-03
237	ALL	354248.1	3792668	NonCancer	1.40E-03
1582	ALL	353315.5	3792935	NonCancer	1.40E-03
1639	ALL	353290.5	3792985	NonCancer	1.40E-03
1873	ALL	353215.5	3793185	NonCancer	1.40E-03
1468	ALL	353365.5	3792835	NonCancer	1.40E-03
107	ALL	354098.1	3792568	NonCancer	1.39E-03
1784	ALL	353240.5	3793110	NonCancer	1.39E-03
397	ALL	354373.1	3792793	NonCancer	1.39E-03
1326	ALL	353440.5	3792710	NonCancer	1.39E-03
172	ALL	354173.1	3792618	NonCancer	1.39E-03
1696	ALL	353265.5	3793035	NonCancer	1.39E-03
1157	ALL	353565.5	3792560	NonCancer	1.39E-03
1185	ALL	353540.5	3792585	NonCancer	1.38E-03

270	ALL	354298.1	3792693	NonCancer	1.38E-03
429	ALL	354398.1	3792818	NonCancer	1.38E-03
1129	ALL	353590.5	3792535	NonCancer	1.38E-03
461	ALL	354423.1	3792843	NonCancer	1.38E-03
1411	ALL	353390.5	3792785	NonCancer	1.38E-03
334	ALL	354348.1	3792743	NonCancer	1.38E-03
1213	ALL	353515.5	3792610	NonCancer	1.38E-03
9	ALL	353973.1	3792493	NonCancer	1.38E-03
140	ALL	354148.1	3792593	NonCancer	1.38E-03
1754	ALL	353240.5	3793085	NonCancer	1.37E-03
42	ALL	354023.1	3792518	NonCancer	1.37E-03
1101	ALL	353615.5	3792510	NonCancer	1.37E-03
238	ALL	354273.1	3792668	NonCancer	1.37E-03
493	ALL	354448.1	3792868	NonCancer	1.37E-03
1843	ALL	353215.5	3793160	NonCancer	1.37E-03
1610	ALL	353290.5	3792960	NonCancer	1.37E-03
525	ALL	354473.1	3792893	NonCancer	1.37E-03
1241	ALL	353490.5	3792635	NonCancer	1.36E-03
75	ALL	354073.1	3792543	NonCancer	1.36E-03
1354	ALL	353415.5	3792735	NonCancer	1.36E-03
1496	ALL	353340.5	3792860	NonCancer	1.36E-03
205	ALL	354223.1	3792643	NonCancer	1.36E-03
557	ALL	354498.1	3792918	NonCancer	1.36E-03
1553	ALL	353315.5	3792910	NonCancer	1.36E-03
1667	ALL	353265.5	3793010	NonCancer	1.35E-03
589	ALL	354523.1	3792943	NonCancer	1.35E-03
108	ALL	354123.1	3792568	NonCancer	1.35E-03
1902	ALL	353190.5	3793210	NonCancer	1.35E-03
1439	ALL	353365.5	3792810	NonCancer	1.35E-03
1269	ALL	353465.5	3792660	NonCancer	1.35E-03
271	ALL	354323.1	3792693	NonCancer	1.35E-03
173	ALL	354198.1	3792618	NonCancer	1.35E-03
1724	ALL	353240.5	3793060	NonCancer	1.35E-03
303	ALL	354348.1	3792718	NonCancer	1.34E-03
366	ALL	354373.1	3792768	NonCancer	1.34E-03
10	ALL	353998.1	3792493	NonCancer	1.34E-03
1813	ALL	353215.5	3793135	NonCancer	1.34E-03
398	ALL	354398.1	3792793	NonCancer	1.34E-03
141	ALL	354173.1	3792593	NonCancer	1.34E-03
43	ALL	354048.1	3792518	NonCancer	1.33E-03
430	ALL	354423.1	3792818	NonCancer	1.33E-03
1581	ALL	353290.5	3792935	NonCancer	1.33E-03
1382	ALL	353390.5	3792760	NonCancer	1.33E-03
1297	ALL	353440.5	3792685	NonCancer	1.33E-03
76	ALL	354098.1	3792543	NonCancer	1.33E-03
1872	ALL	353190.5	3793185	NonCancer	1.32E-03
462	ALL	354448.1	3792843	NonCancer	1.32E-03

1638	ALL	353265.5	3792985	NonCancer	1.32E-03
206	ALL	354248.1	3792643	NonCancer	1.32E-03
1783	ALL	353215.5	3793110	NonCancer	1.32E-03
1524	ALL	353315.5	3792885	NonCancer	1.32E-03
1467	ALL	353340.5	3792835	NonCancer	1.32E-03
494	ALL	354473.1	3792868	NonCancer	1.32E-03
1695	ALL	353240.5	3793035	NonCancer	1.32E-03
239	ALL	354298.1	3792668	NonCancer	1.31E-03
526	ALL	354498.1	3792893	NonCancer	1.31E-03
109	ALL	354148.1	3792568	NonCancer	1.31E-03
1325	ALL	353415.5	3792710	NonCancer	1.31E-03
558	ALL	354523.1	3792918	NonCancer	1.31E-03
11	ALL	354023.1	3792493	NonCancer	1.31E-03
1156	ALL	353540.5	3792560	NonCancer	1.31E-03
174	ALL	354223.1	3792618	NonCancer	1.30E-03
1128	ALL	353565.5	3792535	NonCancer	1.30E-03
1184	ALL	353515.5	3792585	NonCancer	1.30E-03
335	ALL	354373.1	3792743	NonCancer	1.30E-03
1410	ALL	353365.5	3792785	NonCancer	1.30E-03
1753	ALL	353215.5	3793085	NonCancer	1.30E-03
44	ALL	354073.1	3792518	NonCancer	1.30E-03
1100	ALL	353590.5	3792510	NonCancer	1.30E-03
1842	ALL	353190.5	3793160	NonCancer	1.30E-03
142	ALL	354198.1	3792593	NonCancer	1.30E-03
1552	ALL	353290.5	3792910	NonCancer	1.30E-03
1212	ALL	353490.5	3792610	NonCancer	1.30E-03
1609	ALL	353265.5	3792960	NonCancer	1.29E-03
207	ALL	354273.1	3792643	NonCancer	1.29E-03
367	ALL	354398.1	3792768	NonCancer	1.29E-03
1495	ALL	353315.5	3792860	NonCancer	1.29E-03
272	ALL	354348.1	3792693	NonCancer	1.29E-03
399	ALL	354423.1	3792793	NonCancer	1.29E-03
77	ALL	354123.1	3792543	NonCancer	1.29E-03
1353	ALL	353390.5	3792735	NonCancer	1.29E-03
1666	ALL	353240.5	3793010	NonCancer	1.28E-03
1240	ALL	353465.5	3792635	NonCancer	1.28E-03
1901	ALL	353165.5	3793210	NonCancer	1.28E-03
431	ALL	354448.1	3792818	NonCancer	1.28E-03
240	ALL	354323.1	3792668	NonCancer	1.28E-03
1723	ALL	353215.5	3793060	NonCancer	1.28E-03
110	ALL	354173.1	3792568	NonCancer	1.28E-03
1438	ALL	353340.5	3792810	NonCancer	1.28E-03
463	ALL	354473.1	3792843	NonCancer	1.27E-03
12	ALL	354048.1	3792493	NonCancer	1.27E-03
1812	ALL	353190.5	3793135	NonCancer	1.27E-03
304	ALL	354373.1	3792718	NonCancer	1.27E-03
1268	ALL	353440.5	3792660	NonCancer	1.27E-03

495	ALL	354498.1	3792868	NonCancer	1.27E-03
45	ALL	354098.1	3792518	NonCancer	1.27E-03
527	ALL	354523.1	3792893	NonCancer	1.27E-03
175	ALL	354248.1	3792618	NonCancer	1.26E-03
1580	ALL	353265.5	3792935	NonCancer	1.26E-03
1871	ALL	353165.5	3793185	NonCancer	1.26E-03
1381	ALL	353365.5	3792760	NonCancer	1.26E-03
143	ALL	354223.1	3792593	NonCancer	1.26E-03
1296	ALL	353415.5	3792685	NonCancer	1.25E-03
1637	ALL	353240.5	3792985	NonCancer	1.25E-03
78	ALL	354148.1	3792543	NonCancer	1.25E-03
1782	ALL	353190.5	3793110	NonCancer	1.25E-03
1466	ALL	353315.5	3792835	NonCancer	1.25E-03
1523	ALL	353290.5	3792885	NonCancer	1.25E-03
1694	ALL	353215.5	3793035	NonCancer	1.25E-03
336	ALL	354398.1	3792743	NonCancer	1.25E-03
208	ALL	354298.1	3792643	NonCancer	1.25E-03
368	ALL	354423.1	3792768	NonCancer	1.25E-03
400	ALL	354448.1	3792793	NonCancer	1.24E-03
13	ALL	354073.1	3792493	NonCancer	1.24E-03
111	ALL	354198.1	3792568	NonCancer	1.24E-03
1324	ALL	353390.5	3792710	NonCancer	1.24E-03
1841	ALL	353165.5	3793160	NonCancer	1.24E-03
1752	ALL	353190.5	3793085	NonCancer	1.24E-03
1155	ALL	353515.5	3792560	NonCancer	1.23E-03
1127	ALL	353540.5	3792535	NonCancer	1.23E-03
1409	ALL	353340.5	3792785	NonCancer	1.23E-03
1551	ALL	353265.5	3792910	NonCancer	1.23E-03
46	ALL	354123.1	3792518	NonCancer	1.23E-03
432	ALL	354473.1	3792818	NonCancer	1.23E-03
241	ALL	354348.1	3792668	NonCancer	1.23E-03
1099	ALL	353565.5	3792510	NonCancer	1.23E-03
1183	ALL	353490.5	3792585	NonCancer	1.23E-03
1608	ALL	353240.5	3792960	NonCancer	1.23E-03
464	ALL	354498.1	3792843	NonCancer	1.23E-03
176	ALL	354273.1	3792618	NonCancer	1.23E-03
496	ALL	354523.1	3792868	NonCancer	1.23E-03
1211	ALL	353465.5	3792610	NonCancer	1.22E-03
1900	ALL	353140.5	3793210	NonCancer	1.22E-03
79	ALL	354173.1	3792543	NonCancer	1.22E-03
144	ALL	354248.1	3792593	NonCancer	1.22E-03
1665	ALL	353215.5	3793010	NonCancer	1.22E-03
1494	ALL	353290.5	3792860	NonCancer	1.22E-03
273	ALL	354373.1	3792693	NonCancer	1.22E-03
1352	ALL	353365.5	3792735	NonCancer	1.21E-03
1239	ALL	353440.5	3792635	NonCancer	1.21E-03
1722	ALL	353190.5	3793060	NonCancer	1.21E-03

1811	ALL	353165.5	3793135	NonCancer	1.21E-03
1437	ALL	353315.5	3792810	NonCancer	1.21E-03
14	ALL	354098.1	3792493	NonCancer	1.21E-03
209	ALL	354323.1	3792643	NonCancer	1.21E-03
337	ALL	354423.1	3792743	NonCancer	1.21E-03
305	ALL	354398.1	3792718	NonCancer	1.20E-03
112	ALL	354223.1	3792568	NonCancer	1.20E-03
369	ALL	354448.1	3792768	NonCancer	1.20E-03
1267	ALL	353415.5	3792660	NonCancer	1.20E-03
1870	ALL	353140.5	3793185	NonCancer	1.20E-03
47	ALL	354148.1	3792518	NonCancer	1.20E-03
1522	ALL	353265.5	3792885	NonCancer	1.20E-03
1579	ALL	353240.5	3792935	NonCancer	1.20E-03
1781	ALL	353165.5	3793110	NonCancer	1.20E-03
401	ALL	354473.1	3792793	NonCancer	1.19E-03
1380	ALL	353340.5	3792760	NonCancer	1.19E-03
1636	ALL	353215.5	3792985	NonCancer	1.19E-03
177	ALL	354298.1	3792618	NonCancer	1.19E-03
1693	ALL	353190.5	3793035	NonCancer	1.19E-03
1295	ALL	353390.5	3792685	NonCancer	1.19E-03
433	ALL	354498.1	3792818	NonCancer	1.19E-03
80	ALL	354198.1	3792543	NonCancer	1.19E-03
1465	ALL	353290.5	3792835	NonCancer	1.19E-03
145	ALL	354273.1	3792593	NonCancer	1.18E-03
465	ALL	354523.1	3792843	NonCancer	1.18E-03
15	ALL	354123.1	3792493	NonCancer	1.18E-03
1840	ALL	353140.5	3793160	NonCancer	1.18E-03
1751	ALL	353165.5	3793085	NonCancer	1.18E-03
210	ALL	354348.1	3792643	NonCancer	1.17E-03
1408	ALL	353315.5	3792785	NonCancer	1.17E-03
1126	ALL	353515.5	3792535	NonCancer	1.17E-03
1550	ALL	353240.5	3792910	NonCancer	1.17E-03
48	ALL	354173.1	3792518	NonCancer	1.17E-03
1154	ALL	353490.5	3792560	NonCancer	1.17E-03
242	ALL	354373.1	3792668	NonCancer	1.17E-03
1323	ALL	353365.5	3792710	NonCancer	1.17E-03
113	ALL	354248.1	3792568	NonCancer	1.17E-03
1098	ALL	353540.5	3792510	NonCancer	1.17E-03
306	ALL	354423.1	3792718	NonCancer	1.17E-03
1182	ALL	353465.5	3792585	NonCancer	1.17E-03
1899	ALL	353115.5	3793210	NonCancer	1.17E-03
1607	ALL	353215.5	3792960	NonCancer	1.17E-03
274	ALL	354398.1	3792693	NonCancer	1.16E-03
338	ALL	354448.1	3792743	NonCancer	1.16E-03
1210	ALL	353440.5	3792610	NonCancer	1.16E-03
1664	ALL	353190.5	3793010	NonCancer	1.16E-03
1810	ALL	353140.5	3793135	NonCancer	1.16E-03

178	ALL	354323.1	3792618	NonCancer	1.16E-03
370	ALL	354473.1	3792768	NonCancer	1.16E-03
1721	ALL	353165.5	3793060	NonCancer	1.16E-03
81	ALL	354223.1	3792543	NonCancer	1.15E-03
1493	ALL	353265.5	3792860	NonCancer	1.15E-03
1436	ALL	353290.5	3792810	NonCancer	1.15E-03
146	ALL	354298.1	3792593	NonCancer	1.15E-03
1238	ALL	353415.5	3792635	NonCancer	1.15E-03
1351	ALL	353340.5	3792735	NonCancer	1.15E-03
402	ALL	354498.1	3792793	NonCancer	1.15E-03
16	ALL	354148.1	3792493	NonCancer	1.15E-03
434	ALL	354523.1	3792818	NonCancer	1.15E-03
1869	ALL	353115.5	3793185	NonCancer	1.15E-03
1521	ALL	353240.5	3792885	NonCancer	1.14E-03
1266	ALL	353390.5	3792660	NonCancer	1.14E-03
49	ALL	354198.1	3792518	NonCancer	1.14E-03
1578	ALL	353215.5	3792935	NonCancer	1.14E-03
1780	ALL	353140.5	3793110	NonCancer	1.14E-03
114	ALL	354273.1	3792568	NonCancer	1.14E-03
1379	ALL	353315.5	3792760	NonCancer	1.14E-03
1635	ALL	353190.5	3792985	NonCancer	1.14E-03
1692	ALL	353165.5	3793035	NonCancer	1.13E-03
275	ALL	354423.1	3792693	NonCancer	1.13E-03
211	ALL	354373.1	3792643	NonCancer	1.13E-03
307	ALL	354448.1	3792718	NonCancer	1.13E-03
1294	ALL	353365.5	3792685	NonCancer	1.13E-03
1839	ALL	353115.5	3793160	NonCancer	1.13E-03
17	ALL	354173.1	3792493	NonCancer	1.12E-03
243	ALL	354398.1	3792668	NonCancer	1.12E-03
1464	ALL	353265.5	3792835	NonCancer	1.12E-03
82	ALL	354248.1	3792543	NonCancer	1.12E-03
179	ALL	354348.1	3792618	NonCancer	1.12E-03
339	ALL	354473.1	3792743	NonCancer	1.12E-03
1750	ALL	353140.5	3793085	NonCancer	1.12E-03
147	ALL	354323.1	3792593	NonCancer	1.12E-03
1407	ALL	353290.5	3792785	NonCancer	1.12E-03
1125	ALL	353490.5	3792535	NonCancer	1.11E-03
403	ALL	354523.1	3792793	NonCancer	1.11E-03
1898	ALL	353090.5	3793210	NonCancer	1.11E-03
1549	ALL	353215.5	3792910	NonCancer	1.11E-03
1153	ALL	353465.5	3792560	NonCancer	1.11E-03
1097	ALL	353515.5	3792510	NonCancer	1.11E-03
371	ALL	354498.1	3792768	NonCancer	1.11E-03
1322	ALL	353340.5	3792710	NonCancer	1.11E-03
1492	ALL	353240.5	3792860	NonCancer	1.11E-03
1181	ALL	353440.5	3792585	NonCancer	1.11E-03
1606	ALL	353190.5	3792960	NonCancer	1.11E-03

50	ALL	354223.1	3792518	NonCancer	1.11E-03
1663	ALL	353165.5	3793010	NonCancer	1.11E-03
1209	ALL	353415.5	3792610	NonCancer	1.11E-03
115	ALL	354298.1	3792568	NonCancer	1.11E-03
1809	ALL	353115.5	3793135	NonCancer	1.10E-03
1720	ALL	353140.5	3793060	NonCancer	1.10E-03
1350	ALL	353315.5	3792735	NonCancer	1.10E-03
18	ALL	354198.1	3792493	NonCancer	1.10E-03
1868	ALL	353090.5	3793185	NonCancer	1.10E-03
1435	ALL	353265.5	3792810	NonCancer	1.10E-03
1237	ALL	353390.5	3792635	NonCancer	1.09E-03
276	ALL	354448.1	3792693	NonCancer	1.09E-03
244	ALL	354423.1	3792668	NonCancer	1.09E-03
83	ALL	354273.1	3792543	NonCancer	1.09E-03
1520	ALL	353215.5	3792885	NonCancer	1.09E-03
1779	ALL	353115.5	3793110	NonCancer	1.09E-03
1577	ALL	353190.5	3792935	NonCancer	1.09E-03
180	ALL	354373.1	3792618	NonCancer	1.09E-03
212	ALL	354398.1	3792643	NonCancer	1.08E-03
1265	ALL	353365.5	3792660	NonCancer	1.08E-03
148	ALL	354348.1	3792593	NonCancer	1.08E-03
308	ALL	354473.1	3792718	NonCancer	1.08E-03
1634	ALL	353165.5	3792985	NonCancer	1.08E-03
1378	ALL	353290.5	3792760	NonCancer	1.08E-03
372	ALL	354523.1	3792768	NonCancer	1.08E-03
51	ALL	354248.1	3792518	NonCancer	1.08E-03
1691	ALL	353140.5	3793035	NonCancer	1.08E-03
340	ALL	354498.1	3792743	NonCancer	1.08E-03
1838	ALL	353090.5	3793160	NonCancer	1.08E-03
116	ALL	354323.1	3792568	NonCancer	1.07E-03
1293	ALL	353340.5	3792685	NonCancer	1.07E-03
19	ALL	354223.1	3792493	NonCancer	1.07E-03
1463	ALL	353240.5	3792835	NonCancer	1.07E-03
1749	ALL	353115.5	3793085	NonCancer	1.07E-03
1897	ALL	353065.5	3793210	NonCancer	1.07E-03
1406	ALL	353265.5	3792785	NonCancer	1.06E-03
1124	ALL	353465.5	3792535	NonCancer	1.06E-03
1096	ALL	353490.5	3792510	NonCancer	1.06E-03
1152	ALL	353440.5	3792560	NonCancer	1.06E-03
1548	ALL	353190.5	3792910	NonCancer	1.06E-03
1321	ALL	353315.5	3792710	NonCancer	1.06E-03
1605	ALL	353165.5	3792960	NonCancer	1.06E-03
84	ALL	354298.1	3792543	NonCancer	1.06E-03
1491	ALL	353215.5	3792860	NonCancer	1.06E-03
1180	ALL	353415.5	3792585	NonCancer	1.06E-03
1662	ALL	353140.5	3793010	NonCancer	1.06E-03
1808	ALL	353090.5	3793135	NonCancer	1.06E-03

245	ALL	354448.1	3792668	NonCancer	1.06E-03
1208	ALL	353390.5	3792610	NonCancer	1.05E-03
52	ALL	354273.1	3792518	NonCancer	1.05E-03
277	ALL	354473.1	3792693	NonCancer	1.05E-03
149	ALL	354373.1	3792593	NonCancer	1.05E-03
213	ALL	354423.1	3792643	NonCancer	1.05E-03
181	ALL	354398.1	3792618	NonCancer	1.05E-03
1719	ALL	353115.5	3793060	NonCancer	1.05E-03
1867	ALL	353065.5	3793185	NonCancer	1.05E-03
1349	ALL	353290.5	3792735	NonCancer	1.05E-03
341	ALL	354523.1	3792743	NonCancer	1.05E-03
117	ALL	354348.1	3792568	NonCancer	1.04E-03
1236	ALL	353365.5	3792635	NonCancer	1.04E-03
20	ALL	354248.1	3792493	NonCancer	1.04E-03
1778	ALL	353090.5	3793110	NonCancer	1.04E-03
309	ALL	354498.1	3792718	NonCancer	1.04E-03
1576	ALL	353165.5	3792935	NonCancer	1.04E-03
1434	ALL	353240.5	3792810	NonCancer	1.04E-03
1519	ALL	353190.5	3792885	NonCancer	1.04E-03
1633	ALL	353140.5	3792985	NonCancer	1.03E-03
1264	ALL	353340.5	3792660	NonCancer	1.03E-03
1377	ALL	353265.5	3792760	NonCancer	1.03E-03
85	ALL	354323.1	3792543	NonCancer	1.03E-03
1462	ALL	353215.5	3792835	NonCancer	1.03E-03
1690	ALL	353115.5	3793035	NonCancer	1.03E-03
1837	ALL	353065.5	3793160	NonCancer	1.03E-03
1292	ALL	353315.5	3792685	NonCancer	1.03E-03
1748	ALL	353090.5	3793085	NonCancer	1.02E-03
53	ALL	354298.1	3792518	NonCancer	1.02E-03
1896	ALL	353040.5	3793210	NonCancer	1.02E-03
150	ALL	354398.1	3792593	NonCancer	1.02E-03
246	ALL	354473.1	3792668	NonCancer	1.02E-03
1123	ALL	353440.5	3792535	NonCancer	1.02E-03
1547	ALL	353165.5	3792910	NonCancer	1.02E-03
1095	ALL	353465.5	3792510	NonCancer	1.02E-03
1151	ALL	353415.5	3792560	NonCancer	1.02E-03
21	ALL	354273.1	3792493	NonCancer	1.02E-03
214	ALL	354448.1	3792643	NonCancer	1.02E-03
1490	ALL	353190.5	3792860	NonCancer	1.02E-03
1604	ALL	353140.5	3792960	NonCancer	1.01E-03
310	ALL	354523.1	3792718	NonCancer	1.01E-03
1320	ALL	353290.5	3792710	NonCancer	1.01E-03
182	ALL	354423.1	3792618	NonCancer	1.01E-03
1405	ALL	353240.5	3792785	NonCancer	1.01E-03
118	ALL	354373.1	3792568	NonCancer	1.01E-03
1179	ALL	353390.5	3792585	NonCancer	1.01E-03
1807	ALL	353065.5	3793135	NonCancer	1.01E-03

1661	ALL	353115.5	3793010	NonCancer	1.01E-03
278	ALL	354498.1	3792693	NonCancer	1.01E-03
1718	ALL	353090.5	3793060	NonCancer	1.01E-03
1207	ALL	353365.5	3792610	NonCancer	1.00E-03
1866	ALL	353040.5	3793185	NonCancer	1.00E-03
86	ALL	354348.1	3792543	NonCancer	1.00E-03
1348	ALL	353265.5	3792735	NonCancer	1.00E-03
1777	ALL	353065.5	3793110	NonCancer	9.99E-04
1235	ALL	353340.5	3792635	NonCancer	9.97E-04
1433	ALL	353215.5	3792810	NonCancer	9.95E-04
1518	ALL	353165.5	3792885	NonCancer	9.95E-04
1575	ALL	353140.5	3792935	NonCancer	9.95E-04
54	ALL	354323.1	3792518	NonCancer	9.94E-04
1632	ALL	353115.5	3792985	NonCancer	9.90E-04
1263	ALL	353315.5	3792660	NonCancer	9.90E-04
1689	ALL	353090.5	3793035	NonCancer	9.89E-04
22	ALL	354298.1	3792493	NonCancer	9.88E-04
1461	ALL	353190.5	3792835	NonCancer	9.87E-04
1836	ALL	353040.5	3793160	NonCancer	9.86E-04
1376	ALL	353240.5	3792760	NonCancer	9.86E-04
151	ALL	354423.1	3792593	NonCancer	9.84E-04
1747	ALL	353065.5	3793085	NonCancer	9.84E-04
119	ALL	354398.1	3792568	NonCancer	9.83E-04
279	ALL	354523.1	3792693	NonCancer	9.82E-04
215	ALL	354473.1	3792643	NonCancer	9.81E-04
247	ALL	354498.1	3792668	NonCancer	9.81E-04
1291	ALL	353290.5	3792685	NonCancer	9.81E-04
183	ALL	354448.1	3792618	NonCancer	9.81E-04
1895	ALL	353015.5	3793210	NonCancer	9.78E-04
1122	ALL	353415.5	3792535	NonCancer	9.75E-04
1094	ALL	353440.5	3792510	NonCancer	9.75E-04
1546	ALL	353140.5	3792910	NonCancer	9.74E-04
1150	ALL	353390.5	3792560	NonCancer	9.73E-04
87	ALL	354373.1	3792543	NonCancer	9.73E-04
1489	ALL	353165.5	3792860	NonCancer	9.72E-04
1603	ALL	353115.5	3792960	NonCancer	9.71E-04
1806	ALL	353040.5	3793135	NonCancer	9.70E-04
1319	ALL	353265.5	3792710	NonCancer	9.70E-04
1660	ALL	353090.5	3793010	NonCancer	9.69E-04
1178	ALL	353365.5	3792585	NonCancer	9.68E-04
1717	ALL	353065.5	3793060	NonCancer	9.67E-04
1404	ALL	353215.5	3792785	NonCancer	9.65E-04
55	ALL	354348.1	3792518	NonCancer	9.65E-04
1206	ALL	353340.5	3792610	NonCancer	9.63E-04
1865	ALL	353015.5	3793185	NonCancer	9.63E-04
23	ALL	354323.1	3792493	NonCancer	9.61E-04
1432	ALL	353190.5	3792810	NonCancer	9.60E-04

1776	ALL	353040.5	3793110	NonCancer	9.57E-04
1347	ALL	353240.5	3792735	NonCancer	9.57E-04
1234	ALL	353315.5	3792635	NonCancer	9.56E-04
152	ALL	354448.1	3792593	NonCancer	9.55E-04
1517	ALL	353140.5	3792885	NonCancer	9.53E-04
120	ALL	354423.1	3792568	NonCancer	9.53E-04
248	ALL	354523.1	3792668	NonCancer	9.53E-04
1574	ALL	353115.5	3792935	NonCancer	9.52E-04
216	ALL	354498.1	3792643	NonCancer	9.51E-04
1688	ALL	353065.5	3793035	NonCancer	9.49E-04
1631	ALL	353090.5	3792985	NonCancer	9.49E-04
184	ALL	354473.1	3792618	NonCancer	9.49E-04
1262	ALL	353290.5	3792660	NonCancer	9.48E-04
1835	ALL	353015.5	3793160	NonCancer	9.46E-04
88	ALL	354398.1	3792543	NonCancer	9.45E-04
1460	ALL	353165.5	3792835	NonCancer	9.45E-04
1746	ALL	353040.5	3793085	NonCancer	9.44E-04
1375	ALL	353215.5	3792760	NonCancer	9.42E-04
1290	ALL	353265.5	3792685	NonCancer	9.39E-04
56	ALL	354373.1	3792518	NonCancer	9.39E-04
1093	ALL	353415.5	3792510	NonCancer	9.37E-04
1121	ALL	353390.5	3792535	NonCancer	9.36E-04
1545	ALL	353115.5	3792910	NonCancer	9.33E-04
1403	ALL	353190.5	3792785	NonCancer	9.33E-04
1149	ALL	353365.5	3792560	NonCancer	9.32E-04
24	ALL	354348.1	3792493	NonCancer	9.32E-04
1602	ALL	353090.5	3792960	NonCancer	9.31E-04
1805	ALL	353015.5	3793135	NonCancer	9.31E-04
1488	ALL	353140.5	3792860	NonCancer	9.31E-04
1659	ALL	353065.5	3793010	NonCancer	9.30E-04
1318	ALL	353240.5	3792710	NonCancer	9.29E-04
1177	ALL	353340.5	3792585	NonCancer	9.28E-04
1716	ALL	353040.5	3793060	NonCancer	9.28E-04
121	ALL	354448.1	3792568	NonCancer	9.26E-04
1205	ALL	353315.5	3792610	NonCancer	9.25E-04
217	ALL	354523.1	3792643	NonCancer	9.22E-04
153	ALL	354473.1	3792593	NonCancer	9.22E-04
1431	ALL	353165.5	3792810	NonCancer	9.20E-04
185	ALL	354498.1	3792618	NonCancer	9.20E-04
1775	ALL	353015.5	3793110	NonCancer	9.19E-04
89	ALL	354423.1	3792543	NonCancer	9.18E-04
1233	ALL	353290.5	3792635	NonCancer	9.16E-04
57	ALL	354398.1	3792518	NonCancer	9.14E-04
1346	ALL	353215.5	3792735	NonCancer	9.13E-04
1516	ALL	353115.5	3792885	NonCancer	9.13E-04
1573	ALL	353090.5	3792935	NonCancer	9.13E-04
1687	ALL	353040.5	3793035	NonCancer	9.11E-04

25	ALL	354373.1	3792493	NonCancer	9.11E-04
1630	ALL	353065.5	3792985	NonCancer	9.10E-04
1261	ALL	353265.5	3792660	NonCancer	9.09E-04
1459	ALL	353140.5	3792835	NonCancer	9.07E-04
1745	ALL	353015.5	3793085	NonCancer	9.05E-04
1374	ALL	353190.5	3792760	NonCancer	9.04E-04
1289	ALL	353240.5	3792685	NonCancer	9.01E-04
1092	ALL	353390.5	3792510	NonCancer	9.00E-04
1120	ALL	353365.5	3792535	NonCancer	8.98E-04
1402	ALL	353165.5	3792785	NonCancer	8.96E-04
1148	ALL	353340.5	3792560	NonCancer	8.95E-04
122	ALL	354473.1	3792568	NonCancer	8.95E-04
154	ALL	354498.1	3792593	NonCancer	8.94E-04
1544	ALL	353090.5	3792910	NonCancer	8.94E-04
1176	ALL	353315.5	3792585	NonCancer	8.94E-04
90	ALL	354448.1	3792543	NonCancer	8.93E-04
1601	ALL	353065.5	3792960	NonCancer	8.93E-04
1658	ALL	353040.5	3793010	NonCancer	8.92E-04
186	ALL	354523.1	3792618	NonCancer	8.92E-04
1715	ALL	353015.5	3793060	NonCancer	8.91E-04
1487	ALL	353115.5	3792860	NonCancer	8.90E-04
58	ALL	354423.1	3792518	NonCancer	8.88E-04
1204	ALL	353290.5	3792610	NonCancer	8.88E-04
1317	ALL	353215.5	3792710	NonCancer	8.87E-04
26	ALL	354398.1	3792493	NonCancer	8.87E-04
1430	ALL	353140.5	3792810	NonCancer	8.83E-04
1232	ALL	353265.5	3792635	NonCancer	8.80E-04
1686	ALL	353015.5	3793035	NonCancer	8.75E-04
1572	ALL	353065.5	3792935	NonCancer	8.75E-04
1515	ALL	353090.5	3792885	NonCancer	8.74E-04
1629	ALL	353040.5	3792985	NonCancer	8.74E-04
1260	ALL	353240.5	3792660	NonCancer	8.73E-04
1373	ALL	353165.5	3792760	NonCancer	8.71E-04
1345	ALL	353190.5	3792735	NonCancer	8.70E-04
1458	ALL	353115.5	3792835	NonCancer	8.69E-04
91	ALL	354473.1	3792543	NonCancer	8.68E-04
155	ALL	354523.1	3792593	NonCancer	8.68E-04
123	ALL	354498.1	3792568	NonCancer	8.68E-04
1091	ALL	353365.5	3792510	NonCancer	8.66E-04
59	ALL	354448.1	3792518	NonCancer	8.65E-04
1119	ALL	353340.5	3792535	NonCancer	8.64E-04
1147	ALL	353315.5	3792560	NonCancer	8.63E-04
27	ALL	354423.1	3792493	NonCancer	8.63E-04
1288	ALL	353215.5	3792685	NonCancer	8.63E-04
1401	ALL	353140.5	3792785	NonCancer	8.60E-04
1175	ALL	353290.5	3792585	NonCancer	8.60E-04
1600	ALL	353040.5	3792960	NonCancer	8.60E-04

1657	ALL	353015.5	3793010	NonCancer	8.57E-04
1543	ALL	353065.5	3792910	NonCancer	8.57E-04
1486	ALL	353090.5	3792860	NonCancer	8.54E-04
1203	ALL	353265.5	3792610	NonCancer	8.53E-04
1429	ALL	353115.5	3792810	NonCancer	8.48E-04
1344	ALL	353165.5	3792735	NonCancer	8.47E-04
1231	ALL	353240.5	3792635	NonCancer	8.46E-04
1316	ALL	353190.5	3792710	NonCancer	8.45E-04
1571	ALL	353040.5	3792935	NonCancer	8.44E-04
124	ALL	354523.1	3792568	NonCancer	8.43E-04
60	ALL	354473.1	3792518	NonCancer	8.42E-04
92	ALL	354498.1	3792543	NonCancer	8.42E-04
28	ALL	354448.1	3792493	NonCancer	8.41E-04
1628	ALL	353015.5	3792985	NonCancer	8.40E-04
1259	ALL	353215.5	3792660	NonCancer	8.38E-04
1514	ALL	353065.5	3792885	NonCancer	8.38E-04
1372	ALL	353140.5	3792760	NonCancer	8.38E-04
1457	ALL	353090.5	3792835	NonCancer	8.34E-04
1118	ALL	353315.5	3792535	NonCancer	8.34E-04
1090	ALL	353340.5	3792510	NonCancer	8.34E-04
1146	ALL	353290.5	3792560	NonCancer	8.32E-04
1174	ALL	353265.5	3792585	NonCancer	8.27E-04
1400	ALL	353115.5	3792785	NonCancer	8.27E-04
1542	ALL	353040.5	3792910	NonCancer	8.27E-04
1599	ALL	353015.5	3792960	NonCancer	8.26E-04
1287	ALL	353190.5	3792685	NonCancer	8.26E-04
1315	ALL	353165.5	3792710	NonCancer	8.22E-04
1202	ALL	353240.5	3792610	NonCancer	8.21E-04
93	ALL	354523.1	3792543	NonCancer	8.20E-04
1485	ALL	353065.5	3792860	NonCancer	8.20E-04
61	ALL	354498.1	3792518	NonCancer	8.19E-04
29	ALL	354473.1	3792493	NonCancer	8.19E-04
1428	ALL	353090.5	3792810	NonCancer	8.15E-04
1230	ALL	353215.5	3792635	NonCancer	8.14E-04
1343	ALL	353140.5	3792735	NonCancer	8.14E-04
1570	ALL	353015.5	3792935	NonCancer	8.12E-04
1513	ALL	353040.5	3792885	NonCancer	8.09E-04
1089	ALL	353315.5	3792510	NonCancer	8.06E-04
1371	ALL	353115.5	3792760	NonCancer	8.06E-04
1117	ALL	353290.5	3792535	NonCancer	8.05E-04
1258	ALL	353190.5	3792660	NonCancer	8.05E-04
1145	ALL	353265.5	3792560	NonCancer	8.02E-04
1456	ALL	353065.5	3792835	NonCancer	8.01E-04
1286	ALL	353165.5	3792685	NonCancer	8.00E-04
62	ALL	354523.1	3792518	NonCancer	7.98E-04
30	ALL	354498.1	3792493	NonCancer	7.98E-04
1541	ALL	353015.5	3792910	NonCancer	7.96E-04

1173	ALL	353240.5	3792585	NonCancer	7.96E-04
1399	ALL	353090.5	3792785	NonCancer	7.95E-04
1314	ALL	353140.5	3792710	NonCancer	7.94E-04
1484	ALL	353040.5	3792860	NonCancer	7.92E-04
1201	ALL	353215.5	3792610	NonCancer	7.91E-04
1342	ALL	353115.5	3792735	NonCancer	7.84E-04
1427	ALL	353065.5	3792810	NonCancer	7.83E-04
1229	ALL	353190.5	3792635	NonCancer	7.83E-04
1512	ALL	353015.5	3792885	NonCancer	7.80E-04
1088	ALL	353290.5	3792510	NonCancer	7.79E-04
1257	ALL	353165.5	3792660	NonCancer	7.78E-04
31	ALL	354523.1	3792493	NonCancer	7.77E-04
1116	ALL	353265.5	3792535	NonCancer	7.77E-04
1370	ALL	353090.5	3792760	NonCancer	7.76E-04
1455	ALL	353040.5	3792835	NonCancer	7.75E-04
1285	ALL	353140.5	3792685	NonCancer	7.74E-04
1144	ALL	353240.5	3792560	NonCancer	7.73E-04
1172	ALL	353215.5	3792585	NonCancer	7.67E-04
1313	ALL	353115.5	3792710	NonCancer	7.67E-04
1398	ALL	353065.5	3792785	NonCancer	7.65E-04
1483	ALL	353015.5	3792860	NonCancer	7.63E-04
1200	ALL	353190.5	3792610	NonCancer	7.60E-04
1426	ALL	353040.5	3792810	NonCancer	7.57E-04
1341	ALL	353090.5	3792735	NonCancer	7.56E-04
1228	ALL	353165.5	3792635	NonCancer	7.56E-04
1087	ALL	353265.5	3792510	NonCancer	7.52E-04
1256	ALL	353140.5	3792660	NonCancer	7.52E-04
1115	ALL	353240.5	3792535	NonCancer	7.51E-04
1454	ALL	353015.5	3792835	NonCancer	7.48E-04
1284	ALL	353115.5	3792685	NonCancer	7.48E-04
1369	ALL	353065.5	3792760	NonCancer	7.47E-04
1143	ALL	353215.5	3792560	NonCancer	7.45E-04
1312	ALL	353090.5	3792710	NonCancer	7.40E-04
1397	ALL	353040.5	3792785	NonCancer	7.39E-04
1199	ALL	353165.5	3792610	NonCancer	7.37E-04
1171	ALL	353190.5	3792585	NonCancer	7.34E-04
1227	ALL	353140.5	3792635	NonCancer	7.32E-04
1425	ALL	353015.5	3792810	NonCancer	7.30E-04
1340	ALL	353065.5	3792735	NonCancer	7.30E-04
1086	ALL	353240.5	3792510	NonCancer	7.27E-04
1255	ALL	353115.5	3792660	NonCancer	7.27E-04
1114	ALL	353215.5	3792535	NonCancer	7.24E-04
1283	ALL	353090.5	3792685	NonCancer	7.22E-04
1368	ALL	353040.5	3792760	NonCancer	7.22E-04
1170	ALL	353165.5	3792585	NonCancer	7.16E-04
1311	ALL	353065.5	3792710	NonCancer	7.15E-04
1198	ALL	353140.5	3792610	NonCancer	7.14E-04

1396	ALL	353015.5	3792785	NonCancer	7.14E-04
1142	ALL	353190.5	3792560	NonCancer	7.10E-04
1226	ALL	353115.5	3792635	NonCancer	7.08E-04
1339	ALL	353040.5	3792735	NonCancer	7.05E-04
1085	ALL	353215.5	3792510	NonCancer	7.04E-04
1254	ALL	353090.5	3792660	NonCancer	7.04E-04
1282	ALL	353065.5	3792685	NonCancer	6.98E-04
1367	ALL	353015.5	3792760	NonCancer	6.97E-04
1141	ALL	353165.5	3792560	NonCancer	6.97E-04
1169	ALL	353140.5	3792585	NonCancer	6.95E-04
1113	ALL	353190.5	3792535	NonCancer	6.93E-04
1197	ALL	353115.5	3792610	NonCancer	6.91E-04
1310	ALL	353040.5	3792710	NonCancer	6.91E-04
1225	ALL	353090.5	3792635	NonCancer	6.85E-04
1338	ALL	353015.5	3792735	NonCancer	6.81E-04
1253	ALL	353065.5	3792660	NonCancer	6.81E-04
1112	ALL	353165.5	3792535	NonCancer	6.78E-04
1084	ALL	353190.5	3792510	NonCancer	6.77E-04
1140	ALL	353140.5	3792560	NonCancer	6.76E-04
1281	ALL	353040.5	3792685	NonCancer	6.75E-04
1168	ALL	353115.5	3792585	NonCancer	6.73E-04
1309	ALL	353015.5	3792710	NonCancer	6.68E-04
1196	ALL	353090.5	3792610	NonCancer	6.68E-04
1224	ALL	353065.5	3792635	NonCancer	6.63E-04
1083	ALL	353165.5	3792510	NonCancer	6.60E-04
1252	ALL	353040.5	3792660	NonCancer	6.59E-04
1111	ALL	353140.5	3792535	NonCancer	6.58E-04
1139	ALL	353115.5	3792560	NonCancer	6.56E-04
1280	ALL	353015.5	3792685	NonCancer	6.54E-04
1167	ALL	353090.5	3792585	NonCancer	6.50E-04
1195	ALL	353065.5	3792610	NonCancer	6.47E-04
1223	ALL	353040.5	3792635	NonCancer	6.43E-04
1082	ALL	353140.5	3792510	NonCancer	6.41E-04
1110	ALL	353115.5	3792535	NonCancer	6.38E-04
1251	ALL	353015.5	3792660	NonCancer	6.38E-04
1138	ALL	353090.5	3792560	NonCancer	6.34E-04
1166	ALL	353065.5	3792585	NonCancer	6.31E-04
1194	ALL	353040.5	3792610	NonCancer	6.28E-04
1222	ALL	353015.5	3792635	NonCancer	6.23E-04
1081	ALL	353115.5	3792510	NonCancer	6.22E-04
1109	ALL	353090.5	3792535	NonCancer	6.18E-04
1137	ALL	353065.5	3792560	NonCancer	6.17E-04
1165	ALL	353040.5	3792585	NonCancer	6.13E-04
1193	ALL	353015.5	3792610	NonCancer	6.10E-04
1080	ALL	353090.5	3792510	NonCancer	6.03E-04
1108	ALL	353065.5	3792535	NonCancer	6.02E-04
1136	ALL	353040.5	3792560	NonCancer	6.00E-04

1164	ALL	353015.5	3792585	NonCancer	5.96E-04
1079	ALL	353065.5	3792510	NonCancer	5.87E-04
1107	ALL	353040.5	3792535	NonCancer	5.86E-04
1135	ALL	353015.5	3792560	NonCancer	5.84E-04
1078	ALL	353040.5	3792510	NonCancer	5.72E-04
1106	ALL	353015.5	3792535	NonCancer	5.70E-04
1077	ALL	353015.5	3792510	NonCancer	5.57E-04

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*HARP - HRACalc v19044 10/9/2019 1:38:29 PM - Cancer Risk - Input File: P:\300.Environmental\10649 L

REC	GRP	X	Y	RISK_SUM	SCENARIO
2005	ALL	354008	3793427	1.85E-05	6.5YrCancerDerived_Inh_FAH16to70
2006	ALL	354023	3793427	1.81E-05	6.5YrCancerDerived_Inh_FAH16to70
2007	ALL	354038	3793427	1.73E-05	6.5YrCancerDerived_Inh_FAH16to70
2008	ALL	354053	3793427	1.63E-05	6.5YrCancerDerived_Inh_FAH16to70
2009	ALL	354068	3793427	1.51E-05	6.5YrCancerDerived_Inh_FAH16to70
2010	ALL	354083	3793427	1.37E-05	6.5YrCancerDerived_Inh_FAH16to70
1996	ALL	354008	3793412	1.34E-05	6.5YrCancerDerived_Inh_FAH16to70
1997	ALL	354023	3793412	1.31E-05	6.5YrCancerDerived_Inh_FAH16to70
1998	ALL	354038	3793412	1.26E-05	6.5YrCancerDerived_Inh_FAH16to70
2011	ALL	354098	3793427	1.22E-05	6.5YrCancerDerived_Inh_FAH16to70
1999	ALL	354053	3793412	1.19E-05	6.5YrCancerDerived_Inh_FAH16to70
2000	ALL	354068	3793412	1.10E-05	6.5YrCancerDerived_Inh_FAH16to70
2012	ALL	354113	3793427	1.07E-05	6.5YrCancerDerived_Inh_FAH16to70
1988	ALL	354008	3793397	1.03E-05	6.5YrCancerDerived_Inh_FAH16to70
2001	ALL	354083	3793412	1.01E-05	6.5YrCancerDerived_Inh_FAH16to70
1989	ALL	354023	3793397	1.01E-05	6.5YrCancerDerived_Inh_FAH16to70
1990	ALL	354038	3793397	9.71E-06	6.5YrCancerDerived_Inh_FAH16to70
1991	ALL	354053	3793397	9.24E-06	6.5YrCancerDerived_Inh_FAH16to70
2002	ALL	354098	3793412	9.09E-06	6.5YrCancerDerived_Inh_FAH16to70
2013	ALL	354128	3793427	8.90E-06	6.5YrCancerDerived_Inh_FAH16to70
1992	ALL	354068	3793397	8.61E-06	6.5YrCancerDerived_Inh_FAH16to70
1981	ALL	354008	3793382	8.35E-06	6.5YrCancerDerived_Inh_FAH16to70
1982	ALL	354023	3793382	8.22E-06	6.5YrCancerDerived_Inh_FAH16to70
2003	ALL	354113	3793412	8.14E-06	6.5YrCancerDerived_Inh_FAH16to70
1993	ALL	354083	3793397	7.92E-06	6.5YrCancerDerived_Inh_FAH16to70
1983	ALL	354038	3793382	7.90E-06	6.5YrCancerDerived_Inh_FAH16to70
1984	ALL	354053	3793382	7.50E-06	6.5YrCancerDerived_Inh_FAH16to70
1994	ALL	354098	3793397	7.19E-06	6.5YrCancerDerived_Inh_FAH16to70
2004	ALL	354128	3793412	7.08E-06	6.5YrCancerDerived_Inh_FAH16to70
1985	ALL	354068	3793382	7.05E-06	6.5YrCancerDerived_Inh_FAH16to70
1974	ALL	354008	3793367	6.91E-06	6.5YrCancerDerived_Inh_FAH16to70
1975	ALL	354023	3793367	6.83E-06	6.5YrCancerDerived_Inh_FAH16to70
1976	ALL	354038	3793367	6.57E-06	6.5YrCancerDerived_Inh_FAH16to70
1995	ALL	354113	3793397	6.54E-06	6.5YrCancerDerived_Inh_FAH16to70
1986	ALL	354083	3793382	6.53E-06	6.5YrCancerDerived_Inh_FAH16to70
1977	ALL	354053	3793367	6.25E-06	6.5YrCancerDerived_Inh_FAH16to70
1987	ALL	354098	3793382	5.95E-06	6.5YrCancerDerived_Inh_FAH16to70
1978	ALL	354068	3793367	5.91E-06	6.5YrCancerDerived_Inh_FAH16to70
1968	ALL	354008	3793352	5.80E-06	6.5YrCancerDerived_Inh_FAH16to70
1969	ALL	354023	3793352	5.69E-06	6.5YrCancerDerived_Inh_FAH16to70
1970	ALL	354038	3793352	5.51E-06	6.5YrCancerDerived_Inh_FAH16to70
1979	ALL	354083	3793367	5.51E-06	6.5YrCancerDerived_Inh_FAH16to70
1971	ALL	354053	3793352	5.28E-06	6.5YrCancerDerived_Inh_FAH16to70
1011	ALL	353773.1	3793343	5.09E-06	6.5YrCancerDerived_Inh_FAH16to70
1980	ALL	354098	3793367	5.05E-06	6.5YrCancerDerived_Inh_FAH16to70

1962	ALL	353993	3793337	5.04E-06	6.5YrCancerDerived_Inh_FAH16to70
1972	ALL	354068	3793352	4.99E-06	6.5YrCancerDerived_Inh_FAH16to70
1963	ALL	354008	3793337	4.96E-06	6.5YrCancerDerived_Inh_FAH16to70
1964	ALL	354023	3793337	4.85E-06	6.5YrCancerDerived_Inh_FAH16to70
1965	ALL	354038	3793337	4.72E-06	6.5YrCancerDerived_Inh_FAH16to70
1973	ALL	354083	3793352	4.69E-06	6.5YrCancerDerived_Inh_FAH16to70
992	ALL	353773.1	3793318	4.63E-06	6.5YrCancerDerived_Inh_FAH16to70
1966	ALL	354053	3793337	4.54E-06	6.5YrCancerDerived_Inh_FAH16to70
1955	ALL	353963	3793322	4.43E-06	6.5YrCancerDerived_Inh_FAH16to70
811	ALL	353773.1	3793143	4.42E-06	6.5YrCancerDerived_Inh_FAH16to70
1956	ALL	353978	3793322	4.40E-06	6.5YrCancerDerived_Inh_FAH16to70
954	ALL	353773.1	3793268	4.38E-06	6.5YrCancerDerived_Inh_FAH16to70
1957	ALL	353993	3793322	4.37E-06	6.5YrCancerDerived_Inh_FAH16to70
1958	ALL	354008	3793322	4.30E-06	6.5YrCancerDerived_Inh_FAH16to70
1967	ALL	354068	3793337	4.30E-06	6.5YrCancerDerived_Inh_FAH16to70
747	ALL	353773.1	3793093	4.26E-06	6.5YrCancerDerived_Inh_FAH16to70
2273	ALL	353711.5	3793405	4.22E-06	6.5YrCancerDerived_Inh_FAH16to70
1959	ALL	354023	3793322	4.20E-06	6.5YrCancerDerived_Inh_FAH16to70
907	ALL	353773.1	3793218	4.19E-06	6.5YrCancerDerived_Inh_FAH16to70
715	ALL	353773.1	3793068	4.18E-06	6.5YrCancerDerived_Inh_FAH16to70
2201	ALL	353726.5	3793360	4.17E-06	6.5YrCancerDerived_Inh_FAH16to70
1012	ALL	353798.1	3793343	4.16E-06	6.5YrCancerDerived_Inh_FAH16to70
875	ALL	353773.1	3793193	4.15E-06	6.5YrCancerDerived_Inh_FAH16to70
683	ALL	353773.1	3793043	4.10E-06	6.5YrCancerDerived_Inh_FAH16to70
973	ALL	353773.1	3793293	4.10E-06	6.5YrCancerDerived_Inh_FAH16to70
1960	ALL	354038	3793322	4.09E-06	6.5YrCancerDerived_Inh_FAH16to70
1013	ALL	353823.1	3793343	4.04E-06	6.5YrCancerDerived_Inh_FAH16to70
843	ALL	353773.1	3793168	4.04E-06	6.5YrCancerDerived_Inh_FAH16to70
652	ALL	353773.1	3793018	4.03E-06	6.5YrCancerDerived_Inh_FAH16to70
621	ALL	353773.1	3792993	3.95E-06	6.5YrCancerDerived_Inh_FAH16to70
1961	ALL	354053	3793322	3.95E-06	6.5YrCancerDerived_Inh_FAH16to70
993	ALL	353798.1	3793318	3.94E-06	6.5YrCancerDerived_Inh_FAH16to70
1930	ALL	353740.5	3793235	3.93E-06	6.5YrCancerDerived_Inh_FAH16to70
2249	ALL	353711.5	3793390	3.90E-06	6.5YrCancerDerived_Inh_FAH16to70
1949	ALL	353963	3793307	3.90E-06	6.5YrCancerDerived_Inh_FAH16to70
779	ALL	353773.1	3793118	3.89E-06	6.5YrCancerDerived_Inh_FAH16to70
1924	ALL	353740.5	3793210	3.88E-06	6.5YrCancerDerived_Inh_FAH16to70
2176	ALL	353726.5	3793345	3.88E-06	6.5YrCancerDerived_Inh_FAH16to70
1950	ALL	353978	3793307	3.88E-06	6.5YrCancerDerived_Inh_FAH16to70
590	ALL	353773.1	3792968	3.87E-06	6.5YrCancerDerived_Inh_FAH16to70
1951	ALL	353993	3793307	3.85E-06	6.5YrCancerDerived_Inh_FAH16to70
1894	ALL	353740.5	3793185	3.85E-06	6.5YrCancerDerived_Inh_FAH16to70
1864	ALL	353740.5	3793160	3.82E-06	6.5YrCancerDerived_Inh_FAH16to70
1834	ALL	353740.5	3793135	3.80E-06	6.5YrCancerDerived_Inh_FAH16to70
1952	ALL	354008	3793307	3.79E-06	6.5YrCancerDerived_Inh_FAH16to70
559	ALL	353773.1	3792943	3.79E-06	6.5YrCancerDerived_Inh_FAH16to70
1804	ALL	353740.5	3793110	3.78E-06	6.5YrCancerDerived_Inh_FAH16to70

1774	ALL	353740.5	3793085	3.77E-06	6.5YrCancerDerived_Inh_FAH16to70
1744	ALL	353740.5	3793060	3.75E-06	6.5YrCancerDerived_Inh_FAH16to70
974	ALL	353798.1	3793293	3.75E-06	6.5YrCancerDerived_Inh_FAH16to70
1953	ALL	354023	3793307	3.70E-06	6.5YrCancerDerived_Inh_FAH16to70
528	ALL	353773.1	3792918	3.70E-06	6.5YrCancerDerived_Inh_FAH16to70
2151	ALL	353726.5	3793330	3.69E-06	6.5YrCancerDerived_Inh_FAH16to70
2225	ALL	353711.5	3793375	3.63E-06	6.5YrCancerDerived_Inh_FAH16to70
1046	ALL	354173.1	3793393	3.63E-06	6.5YrCancerDerived_Inh_FAH16to70
994	ALL	353823.1	3793318	3.62E-06	6.5YrCancerDerived_Inh_FAH16to70
497	ALL	353773.1	3792893	3.61E-06	6.5YrCancerDerived_Inh_FAH16to70
1954	ALL	354038	3793307	3.60E-06	6.5YrCancerDerived_Inh_FAH16to70
955	ALL	353798.1	3793268	3.57E-06	6.5YrCancerDerived_Inh_FAH16to70
2126	ALL	353726.5	3793315	3.54E-06	6.5YrCancerDerived_Inh_FAH16to70
466	ALL	353773.1	3792868	3.54E-06	6.5YrCancerDerived_Inh_FAH16to70
2296	ALL	353696.5	3793420	3.51E-06	6.5YrCancerDerived_Inh_FAH16to70
1943	ALL	353948	3793292	3.49E-06	6.5YrCancerDerived_Inh_FAH16to70
1944	ALL	353963	3793292	3.49E-06	6.5YrCancerDerived_Inh_FAH16to70
435	ALL	353773.1	3792843	3.49E-06	6.5YrCancerDerived_Inh_FAH16to70
1945	ALL	353978	3793292	3.47E-06	6.5YrCancerDerived_Inh_FAH16to70
1942	ALL	353933	3793292	3.45E-06	6.5YrCancerDerived_Inh_FAH16to70
1946	ALL	353993	3793292	3.44E-06	6.5YrCancerDerived_Inh_FAH16to70
2101	ALL	353726.5	3793300	3.43E-06	6.5YrCancerDerived_Inh_FAH16to70
404	ALL	353773.1	3792818	3.43E-06	6.5YrCancerDerived_Inh_FAH16to70
2200	ALL	353711.5	3793360	3.41E-06	6.5YrCancerDerived_Inh_FAH16to70
1947	ALL	354008	3793292	3.39E-06	6.5YrCancerDerived_Inh_FAH16to70
1062	ALL	354198.1	3793418	3.37E-06	6.5YrCancerDerived_Inh_FAH16to70
373	ALL	353773.1	3792793	3.37E-06	6.5YrCancerDerived_Inh_FAH16to70
2076	ALL	353726.5	3793285	3.35E-06	6.5YrCancerDerived_Inh_FAH16to70
2272	ALL	353696.5	3793405	3.32E-06	6.5YrCancerDerived_Inh_FAH16to70
1948	ALL	354023	3793292	3.32E-06	6.5YrCancerDerived_Inh_FAH16to70
975	ALL	353823.1	3793293	3.31E-06	6.5YrCancerDerived_Inh_FAH16to70
2051	ALL	353726.5	3793270	3.30E-06	6.5YrCancerDerived_Inh_FAH16to70
342	ALL	353773.1	3792768	3.28E-06	6.5YrCancerDerived_Inh_FAH16to70
908	ALL	353798.1	3793218	3.23E-06	6.5YrCancerDerived_Inh_FAH16to70
2175	ALL	353711.5	3793345	3.21E-06	6.5YrCancerDerived_Inh_FAH16to70
311	ALL	353773.1	3792743	3.20E-06	6.5YrCancerDerived_Inh_FAH16to70
2248	ALL	353696.5	3793390	3.17E-06	6.5YrCancerDerived_Inh_FAH16to70
1939	ALL	353963	3793277	3.15E-06	6.5YrCancerDerived_Inh_FAH16to70
1938	ALL	353948	3793277	3.15E-06	6.5YrCancerDerived_Inh_FAH16to70
1940	ALL	353978	3793277	3.14E-06	6.5YrCancerDerived_Inh_FAH16to70
1030	ALL	354173.1	3793368	3.13E-06	6.5YrCancerDerived_Inh_FAH16to70
1937	ALL	353933	3793277	3.12E-06	6.5YrCancerDerived_Inh_FAH16to70
1941	ALL	353993	3793277	3.10E-06	6.5YrCancerDerived_Inh_FAH16to70
280	ALL	353773.1	3792718	3.10E-06	6.5YrCancerDerived_Inh_FAH16to70
1936	ALL	353918	3793277	3.09E-06	6.5YrCancerDerived_Inh_FAH16to70
2150	ALL	353711.5	3793330	3.09E-06	6.5YrCancerDerived_Inh_FAH16to70
2340	ALL	353681.5	3793450	3.07E-06	6.5YrCancerDerived_Inh_FAH16to70

956	ALL	353823.1	3793268	3.06E-06	6.5YrCancerDerived_Inh_FAH16to70
844	ALL	353798.1	3793168	3.04E-06	6.5YrCancerDerived_Inh_FAH16to70
2224	ALL	353696.5	3793375	3.03E-06	6.5YrCancerDerived_Inh_FAH16to70
2318	ALL	353681.5	3793435	3.01E-06	6.5YrCancerDerived_Inh_FAH16to70
876	ALL	353798.1	3793193	3.01E-06	6.5YrCancerDerived_Inh_FAH16to70
1047	ALL	354198.1	3793393	2.99E-06	6.5YrCancerDerived_Inh_FAH16to70
812	ALL	353798.1	3793143	2.98E-06	6.5YrCancerDerived_Inh_FAH16to70
2125	ALL	353711.5	3793315	2.98E-06	6.5YrCancerDerived_Inh_FAH16to70
249	ALL	353773.1	3792693	2.95E-06	6.5YrCancerDerived_Inh_FAH16to70
2295	ALL	353681.5	3793420	2.92E-06	6.5YrCancerDerived_Inh_FAH16to70
2100	ALL	353711.5	3793300	2.90E-06	6.5YrCancerDerived_Inh_FAH16to70
780	ALL	353798.1	3793118	2.89E-06	6.5YrCancerDerived_Inh_FAH16to70
2199	ALL	353696.5	3793360	2.89E-06	6.5YrCancerDerived_Inh_FAH16to70
1935	ALL	353963	3793262	2.87E-06	6.5YrCancerDerived_Inh_FAH16to70
1934	ALL	353948	3793262	2.87E-06	6.5YrCancerDerived_Inh_FAH16to70
1933	ALL	353933	3793262	2.86E-06	6.5YrCancerDerived_Inh_FAH16to70
1932	ALL	353918	3793262	2.84E-06	6.5YrCancerDerived_Inh_FAH16to70
1929	ALL	353715.5	3793235	2.83E-06	6.5YrCancerDerived_Inh_FAH16to70
2075	ALL	353711.5	3793285	2.83E-06	6.5YrCancerDerived_Inh_FAH16to70
748	ALL	353798.1	3793093	2.82E-06	6.5YrCancerDerived_Inh_FAH16to70
2271	ALL	353681.5	3793405	2.82E-06	6.5YrCancerDerived_Inh_FAH16to70
1923	ALL	353715.5	3793210	2.80E-06	6.5YrCancerDerived_Inh_FAH16to70
2050	ALL	353711.5	3793270	2.78E-06	6.5YrCancerDerived_Inh_FAH16to70
2174	ALL	353696.5	3793345	2.77E-06	6.5YrCancerDerived_Inh_FAH16to70
716	ALL	353798.1	3793068	2.76E-06	6.5YrCancerDerived_Inh_FAH16to70
1893	ALL	353715.5	3793185	2.76E-06	6.5YrCancerDerived_Inh_FAH16to70
1063	ALL	354223.1	3793418	2.76E-06	6.5YrCancerDerived_Inh_FAH16to70
1014	ALL	354173.1	3793343	2.73E-06	6.5YrCancerDerived_Inh_FAH16to70
2247	ALL	353681.5	3793390	2.72E-06	6.5YrCancerDerived_Inh_FAH16to70
1863	ALL	353715.5	3793160	2.72E-06	6.5YrCancerDerived_Inh_FAH16to70
684	ALL	353798.1	3793043	2.71E-06	6.5YrCancerDerived_Inh_FAH16to70
909	ALL	353823.1	3793218	2.70E-06	6.5YrCancerDerived_Inh_FAH16to70
218	ALL	353773.1	3792668	2.70E-06	6.5YrCancerDerived_Inh_FAH16to70
2149	ALL	353696.5	3793330	2.68E-06	6.5YrCancerDerived_Inh_FAH16to70
1833	ALL	353715.5	3793135	2.68E-06	6.5YrCancerDerived_Inh_FAH16to70
1031	ALL	354198.1	3793368	2.67E-06	6.5YrCancerDerived_Inh_FAH16to70
1803	ALL	353715.5	3793110	2.65E-06	6.5YrCancerDerived_Inh_FAH16to70
653	ALL	353798.1	3793018	2.65E-06	6.5YrCancerDerived_Inh_FAH16to70
2339	ALL	353666.5	3793450	2.64E-06	6.5YrCancerDerived_Inh_FAH16to70
2223	ALL	353681.5	3793375	2.63E-06	6.5YrCancerDerived_Inh_FAH16to70
1773	ALL	353715.5	3793085	2.62E-06	6.5YrCancerDerived_Inh_FAH16to70
2124	ALL	353696.5	3793315	2.61E-06	6.5YrCancerDerived_Inh_FAH16to70
622	ALL	353798.1	3792993	2.59E-06	6.5YrCancerDerived_Inh_FAH16to70
1743	ALL	353715.5	3793060	2.59E-06	6.5YrCancerDerived_Inh_FAH16to70
2317	ALL	353666.5	3793435	2.57E-06	6.5YrCancerDerived_Inh_FAH16to70
1714	ALL	353715.5	3793035	2.55E-06	6.5YrCancerDerived_Inh_FAH16to70
2099	ALL	353696.5	3793300	2.55E-06	6.5YrCancerDerived_Inh_FAH16to70

2198	ALL	353681.5	3793360	2.53E-06	6.5YrCancerDerived_Inh_FAH16to70
1685	ALL	353715.5	3793010	2.53E-06	6.5YrCancerDerived_Inh_FAH16to70
591	ALL	353798.1	3792968	2.53E-06	6.5YrCancerDerived_Inh_FAH16to70
2294	ALL	353666.5	3793420	2.53E-06	6.5YrCancerDerived_Inh_FAH16to70
1048	ALL	354223.1	3793393	2.51E-06	6.5YrCancerDerived_Inh_FAH16to70
877	ALL	353823.1	3793193	2.51E-06	6.5YrCancerDerived_Inh_FAH16to70
1656	ALL	353715.5	3792985	2.51E-06	6.5YrCancerDerived_Inh_FAH16to70
2074	ALL	353696.5	3793285	2.50E-06	6.5YrCancerDerived_Inh_FAH16to70
1627	ALL	353715.5	3792960	2.49E-06	6.5YrCancerDerived_Inh_FAH16to70
1598	ALL	353715.5	3792935	2.47E-06	6.5YrCancerDerived_Inh_FAH16to70
560	ALL	353798.1	3792943	2.47E-06	6.5YrCancerDerived_Inh_FAH16to70
2270	ALL	353666.5	3793405	2.46E-06	6.5YrCancerDerived_Inh_FAH16to70
910	ALL	353848.1	3793218	2.46E-06	6.5YrCancerDerived_Inh_FAH16to70
845	ALL	353823.1	3793168	2.45E-06	6.5YrCancerDerived_Inh_FAH16to70
2049	ALL	353696.5	3793270	2.45E-06	6.5YrCancerDerived_Inh_FAH16to70
1569	ALL	353715.5	3792910	2.45E-06	6.5YrCancerDerived_Inh_FAH16to70
2173	ALL	353681.5	3793345	2.45E-06	6.5YrCancerDerived_Inh_FAH16to70
1540	ALL	353715.5	3792885	2.43E-06	6.5YrCancerDerived_Inh_FAH16to70
2246	ALL	353666.5	3793390	2.40E-06	6.5YrCancerDerived_Inh_FAH16to70
1511	ALL	353715.5	3792860	2.40E-06	6.5YrCancerDerived_Inh_FAH16to70
995	ALL	354173.1	3793318	2.40E-06	6.5YrCancerDerived_Inh_FAH16to70
529	ALL	353798.1	3792918	2.39E-06	6.5YrCancerDerived_Inh_FAH16to70
813	ALL	353823.1	3793143	2.38E-06	6.5YrCancerDerived_Inh_FAH16to70
2148	ALL	353681.5	3793330	2.38E-06	6.5YrCancerDerived_Inh_FAH16to70
1015	ALL	354198.1	3793343	2.37E-06	6.5YrCancerDerived_Inh_FAH16to70
1482	ALL	353715.5	3792835	2.37E-06	6.5YrCancerDerived_Inh_FAH16to70
911	ALL	353873.1	3793218	2.35E-06	6.5YrCancerDerived_Inh_FAH16to70
2360	ALL	353651.5	3793465	2.35E-06	6.5YrCancerDerived_Inh_FAH16to70
2222	ALL	353666.5	3793375	2.34E-06	6.5YrCancerDerived_Inh_FAH16to70
1453	ALL	353715.5	3792810	2.34E-06	6.5YrCancerDerived_Inh_FAH16to70
498	ALL	353798.1	3792893	2.34E-06	6.5YrCancerDerived_Inh_FAH16to70
2123	ALL	353681.5	3793315	2.33E-06	6.5YrCancerDerived_Inh_FAH16to70
1064	ALL	354248.1	3793418	2.32E-06	6.5YrCancerDerived_Inh_FAH16to70
2338	ALL	353651.5	3793450	2.32E-06	6.5YrCancerDerived_Inh_FAH16to70
912	ALL	353898.1	3793218	2.31E-06	6.5YrCancerDerived_Inh_FAH16to70
1931	ALL	353923.3	3793217	2.30E-06	6.5YrCancerDerived_Inh_FAH16to70
1424	ALL	353715.5	3792785	2.30E-06	6.5YrCancerDerived_Inh_FAH16to70
781	ALL	353823.1	3793118	2.30E-06	6.5YrCancerDerived_Inh_FAH16to70
467	ALL	353798.1	3792868	2.30E-06	6.5YrCancerDerived_Inh_FAH16to70
913	ALL	353948.1	3793218	2.29E-06	6.5YrCancerDerived_Inh_FAH16to70
2316	ALL	353651.5	3793435	2.29E-06	6.5YrCancerDerived_Inh_FAH16to70
2098	ALL	353681.5	3793300	2.28E-06	6.5YrCancerDerived_Inh_FAH16to70
878	ALL	353848.1	3793193	2.28E-06	6.5YrCancerDerived_Inh_FAH16to70
1032	ALL	354223.1	3793368	2.27E-06	6.5YrCancerDerived_Inh_FAH16to70
2197	ALL	353666.5	3793360	2.27E-06	6.5YrCancerDerived_Inh_FAH16to70
914	ALL	353973.1	3793218	2.26E-06	6.5YrCancerDerived_Inh_FAH16to70
1395	ALL	353715.5	3792760	2.26E-06	6.5YrCancerDerived_Inh_FAH16to70

2293	ALL	353651.5	3793420	2.26E-06	6.5YrCancerDerived_Inh_FAH16to70
436	ALL	353798.1	3792843	2.25E-06	6.5YrCancerDerived_Inh_FAH16to70
1928	ALL	353690.5	3793235	2.25E-06	6.5YrCancerDerived_Inh_FAH16to70
2436	ALL	353636.5	3793525	2.25E-06	6.5YrCancerDerived_Inh_FAH16to70
2073	ALL	353681.5	3793285	2.24E-06	6.5YrCancerDerived_Inh_FAH16to70
915	ALL	353998.1	3793218	2.23E-06	6.5YrCancerDerived_Inh_FAH16to70
2417	ALL	353636.5	3793510	2.22E-06	6.5YrCancerDerived_Inh_FAH16to70
749	ALL	353823.1	3793093	2.22E-06	6.5YrCancerDerived_Inh_FAH16to70
2269	ALL	353651.5	3793405	2.21E-06	6.5YrCancerDerived_Inh_FAH16to70
405	ALL	353798.1	3792818	2.21E-06	6.5YrCancerDerived_Inh_FAH16to70
1922	ALL	353690.5	3793210	2.20E-06	6.5YrCancerDerived_Inh_FAH16to70
1366	ALL	353715.5	3792735	2.20E-06	6.5YrCancerDerived_Inh_FAH16to70
2172	ALL	353666.5	3793345	2.20E-06	6.5YrCancerDerived_Inh_FAH16to70
2048	ALL	353681.5	3793270	2.19E-06	6.5YrCancerDerived_Inh_FAH16to70
187	ALL	353773.1	3792643	2.19E-06	6.5YrCancerDerived_Inh_FAH16to70
2398	ALL	353636.5	3793495	2.19E-06	6.5YrCancerDerived_Inh_FAH16to70
916	ALL	354023.1	3793218	2.18E-06	6.5YrCancerDerived_Inh_FAH16to70
879	ALL	353873.1	3793193	2.17E-06	6.5YrCancerDerived_Inh_FAH16to70
2245	ALL	353651.5	3793390	2.17E-06	6.5YrCancerDerived_Inh_FAH16to70
1892	ALL	353690.5	3793185	2.16E-06	6.5YrCancerDerived_Inh_FAH16to70
1049	ALL	354248.1	3793393	2.16E-06	6.5YrCancerDerived_Inh_FAH16to70
846	ALL	353848.1	3793168	2.16E-06	6.5YrCancerDerived_Inh_FAH16to70
374	ALL	353798.1	3792793	2.15E-06	6.5YrCancerDerived_Inh_FAH16to70
717	ALL	353823.1	3793068	2.15E-06	6.5YrCancerDerived_Inh_FAH16to70
2147	ALL	353666.5	3793330	2.15E-06	6.5YrCancerDerived_Inh_FAH16to70
2379	ALL	353636.5	3793480	2.14E-06	6.5YrCancerDerived_Inh_FAH16to70
1862	ALL	353690.5	3793160	2.12E-06	6.5YrCancerDerived_Inh_FAH16to70
996	ALL	354198.1	3793318	2.12E-06	6.5YrCancerDerived_Inh_FAH16to70
2221	ALL	353651.5	3793375	2.12E-06	6.5YrCancerDerived_Inh_FAH16to70
976	ALL	354173.1	3793293	2.11E-06	6.5YrCancerDerived_Inh_FAH16to70
880	ALL	353898.1	3793193	2.11E-06	6.5YrCancerDerived_Inh_FAH16to70
1337	ALL	353715.5	3792710	2.11E-06	6.5YrCancerDerived_Inh_FAH16to70
2122	ALL	353666.5	3793315	2.11E-06	6.5YrCancerDerived_Inh_FAH16to70
2359	ALL	353636.5	3793465	2.10E-06	6.5YrCancerDerived_Inh_FAH16to70
917	ALL	354048.1	3793218	2.10E-06	6.5YrCancerDerived_Inh_FAH16to70
1832	ALL	353690.5	3793135	2.09E-06	6.5YrCancerDerived_Inh_FAH16to70
2337	ALL	353636.5	3793450	2.09E-06	6.5YrCancerDerived_Inh_FAH16to70
685	ALL	353823.1	3793043	2.09E-06	6.5YrCancerDerived_Inh_FAH16to70
343	ALL	353798.1	3792768	2.09E-06	6.5YrCancerDerived_Inh_FAH16to70
814	ALL	353848.1	3793143	2.08E-06	6.5YrCancerDerived_Inh_FAH16to70
2454	ALL	353621.5	3793540	2.08E-06	6.5YrCancerDerived_Inh_FAH16to70
881	ALL	353923.1	3793193	2.07E-06	6.5YrCancerDerived_Inh_FAH16to70
2315	ALL	353636.5	3793435	2.07E-06	6.5YrCancerDerived_Inh_FAH16to70
2097	ALL	353666.5	3793300	2.07E-06	6.5YrCancerDerived_Inh_FAH16to70
1016	ALL	354223.1	3793343	2.06E-06	6.5YrCancerDerived_Inh_FAH16to70
882	ALL	353948.1	3793193	2.06E-06	6.5YrCancerDerived_Inh_FAH16to70
2435	ALL	353621.5	3793525	2.06E-06	6.5YrCancerDerived_Inh_FAH16to70

1802	ALL	353690.5	3793110	2.06E-06	6.5YrCancerDerived_Inh_FAH16to70
2196	ALL	353651.5	3793360	2.06E-06	6.5YrCancerDerived_Inh_FAH16to70
2292	ALL	353636.5	3793420	2.04E-06	6.5YrCancerDerived_Inh_FAH16to70
2416	ALL	353621.5	3793510	2.03E-06	6.5YrCancerDerived_Inh_FAH16to70
654	ALL	353823.1	3793018	2.03E-06	6.5YrCancerDerived_Inh_FAH16to70
2072	ALL	353666.5	3793285	2.03E-06	6.5YrCancerDerived_Inh_FAH16to70
883	ALL	353973.1	3793193	2.03E-06	6.5YrCancerDerived_Inh_FAH16to70
1772	ALL	353690.5	3793085	2.03E-06	6.5YrCancerDerived_Inh_FAH16to70
847	ALL	353873.1	3793168	2.03E-06	6.5YrCancerDerived_Inh_FAH16to70
312	ALL	353798.1	3792743	2.02E-06	6.5YrCancerDerived_Inh_FAH16to70
2268	ALL	353636.5	3793405	2.01E-06	6.5YrCancerDerived_Inh_FAH16to70
2397	ALL	353621.5	3793495	2.00E-06	6.5YrCancerDerived_Inh_FAH16to70
1033	ALL	354248.1	3793368	2.00E-06	6.5YrCancerDerived_Inh_FAH16to70
2171	ALL	353651.5	3793345	2.00E-06	6.5YrCancerDerived_Inh_FAH16to70
1742	ALL	353690.5	3793060	1.99E-06	6.5YrCancerDerived_Inh_FAH16to70
884	ALL	353998.1	3793193	1.99E-06	6.5YrCancerDerived_Inh_FAH16to70
1065	ALL	354273.1	3793418	1.99E-06	6.5YrCancerDerived_Inh_FAH16to70
782	ALL	353848.1	3793118	1.99E-06	6.5YrCancerDerived_Inh_FAH16to70
918	ALL	354073.1	3793218	1.99E-06	6.5YrCancerDerived_Inh_FAH16to70
2047	ALL	353666.5	3793270	1.98E-06	6.5YrCancerDerived_Inh_FAH16to70
623	ALL	353823.1	3792993	1.98E-06	6.5YrCancerDerived_Inh_FAH16to70
2244	ALL	353636.5	3793390	1.97E-06	6.5YrCancerDerived_Inh_FAH16to70
2378	ALL	353621.5	3793480	1.96E-06	6.5YrCancerDerived_Inh_FAH16to70
1713	ALL	353690.5	3793035	1.96E-06	6.5YrCancerDerived_Inh_FAH16to70
2146	ALL	353651.5	3793330	1.96E-06	6.5YrCancerDerived_Inh_FAH16to70
848	ALL	353898.1	3793168	1.94E-06	6.5YrCancerDerived_Inh_FAH16to70
1308	ALL	353715.5	3792685	1.94E-06	6.5YrCancerDerived_Inh_FAH16to70
885	ALL	354023.1	3793193	1.94E-06	6.5YrCancerDerived_Inh_FAH16to70
1684	ALL	353690.5	3793010	1.94E-06	6.5YrCancerDerived_Inh_FAH16to70
2220	ALL	353636.5	3793375	1.94E-06	6.5YrCancerDerived_Inh_FAH16to70
281	ALL	353798.1	3792718	1.93E-06	6.5YrCancerDerived_Inh_FAH16to70
2358	ALL	353621.5	3793465	1.93E-06	6.5YrCancerDerived_Inh_FAH16to70
592	ALL	353823.1	3792968	1.92E-06	6.5YrCancerDerived_Inh_FAH16to70
815	ALL	353873.1	3793143	1.92E-06	6.5YrCancerDerived_Inh_FAH16to70
2121	ALL	353651.5	3793315	1.92E-06	6.5YrCancerDerived_Inh_FAH16to70
2336	ALL	353621.5	3793450	1.92E-06	6.5YrCancerDerived_Inh_FAH16to70
1655	ALL	353690.5	3792985	1.91E-06	6.5YrCancerDerived_Inh_FAH16to70
750	ALL	353848.1	3793093	1.91E-06	6.5YrCancerDerived_Inh_FAH16to70
2471	ALL	353606.5	3793555	1.90E-06	6.5YrCancerDerived_Inh_FAH16to70
977	ALL	354198.1	3793293	1.90E-06	6.5YrCancerDerived_Inh_FAH16to70
2314	ALL	353621.5	3793435	1.90E-06	6.5YrCancerDerived_Inh_FAH16to70
849	ALL	353923.1	3793168	1.90E-06	6.5YrCancerDerived_Inh_FAH16to70
919	ALL	354098.1	3793218	1.90E-06	6.5YrCancerDerived_Inh_FAH16to70
2453	ALL	353606.5	3793540	1.89E-06	6.5YrCancerDerived_Inh_FAH16to70
997	ALL	354223.1	3793318	1.89E-06	6.5YrCancerDerived_Inh_FAH16to70
1050	ALL	354273.1	3793393	1.89E-06	6.5YrCancerDerived_Inh_FAH16to70
2096	ALL	353651.5	3793300	1.89E-06	6.5YrCancerDerived_Inh_FAH16to70

1626	ALL	353690.5	3792960	1.88E-06	6.5YrCancerDerived_Inh_FAH16to70
1927	ALL	353665.5	3793235	1.88E-06	6.5YrCancerDerived_Inh_FAH16to70
2195	ALL	353636.5	3793360	1.88E-06	6.5YrCancerDerived_Inh_FAH16to70
957	ALL	354173.1	3793268	1.87E-06	6.5YrCancerDerived_Inh_FAH16to70
850	ALL	353948.1	3793168	1.87E-06	6.5YrCancerDerived_Inh_FAH16to70
2291	ALL	353621.5	3793420	1.87E-06	6.5YrCancerDerived_Inh_FAH16to70
886	ALL	354048.1	3793193	1.87E-06	6.5YrCancerDerived_Inh_FAH16to70
2434	ALL	353606.5	3793525	1.87E-06	6.5YrCancerDerived_Inh_FAH16to70
561	ALL	353823.1	3792943	1.87E-06	6.5YrCancerDerived_Inh_FAH16to70
1597	ALL	353690.5	3792935	1.86E-06	6.5YrCancerDerived_Inh_FAH16to70
2071	ALL	353651.5	3793285	1.85E-06	6.5YrCancerDerived_Inh_FAH16to70
2267	ALL	353621.5	3793405	1.84E-06	6.5YrCancerDerived_Inh_FAH16to70
1017	ALL	354248.1	3793343	1.84E-06	6.5YrCancerDerived_Inh_FAH16to70
1568	ALL	353690.5	3792910	1.84E-06	6.5YrCancerDerived_Inh_FAH16to70
1921	ALL	353665.5	3793210	1.84E-06	6.5YrCancerDerived_Inh_FAH16to70
2415	ALL	353606.5	3793510	1.84E-06	6.5YrCancerDerived_Inh_FAH16to70
851	ALL	353973.1	3793168	1.84E-06	6.5YrCancerDerived_Inh_FAH16to70
718	ALL	353848.1	3793068	1.83E-06	6.5YrCancerDerived_Inh_FAH16to70
2170	ALL	353636.5	3793345	1.83E-06	6.5YrCancerDerived_Inh_FAH16to70
250	ALL	353798.1	3792693	1.83E-06	6.5YrCancerDerived_Inh_FAH16to70
783	ALL	353873.1	3793118	1.82E-06	6.5YrCancerDerived_Inh_FAH16to70
1539	ALL	353690.5	3792885	1.82E-06	6.5YrCancerDerived_Inh_FAH16to70
530	ALL	353823.1	3792918	1.81E-06	6.5YrCancerDerived_Inh_FAH16to70
2396	ALL	353606.5	3793495	1.81E-06	6.5YrCancerDerived_Inh_FAH16to70
816	ALL	353898.1	3793143	1.81E-06	6.5YrCancerDerived_Inh_FAH16to70
2243	ALL	353621.5	3793390	1.81E-06	6.5YrCancerDerived_Inh_FAH16to70
2046	ALL	353651.5	3793270	1.81E-06	6.5YrCancerDerived_Inh_FAH16to70
1891	ALL	353665.5	3793185	1.80E-06	6.5YrCancerDerived_Inh_FAH16to70
2377	ALL	353606.5	3793480	1.80E-06	6.5YrCancerDerived_Inh_FAH16to70
852	ALL	353998.1	3793168	1.80E-06	6.5YrCancerDerived_Inh_FAH16to70
2145	ALL	353636.5	3793330	1.79E-06	6.5YrCancerDerived_Inh_FAH16to70
920	ALL	354123.1	3793218	1.79E-06	6.5YrCancerDerived_Inh_FAH16to70
2357	ALL	353606.5	3793465	1.78E-06	6.5YrCancerDerived_Inh_FAH16to70
1510	ALL	353690.5	3792860	1.78E-06	6.5YrCancerDerived_Inh_FAH16to70
887	ALL	354073.1	3793193	1.78E-06	6.5YrCancerDerived_Inh_FAH16to70
2219	ALL	353621.5	3793375	1.78E-06	6.5YrCancerDerived_Inh_FAH16to70
1861	ALL	353665.5	3793160	1.77E-06	6.5YrCancerDerived_Inh_FAH16to70
1034	ALL	354273.1	3793368	1.77E-06	6.5YrCancerDerived_Inh_FAH16to70
499	ALL	353823.1	3792893	1.77E-06	6.5YrCancerDerived_Inh_FAH16to70
686	ALL	353848.1	3793043	1.77E-06	6.5YrCancerDerived_Inh_FAH16to70
2335	ALL	353606.5	3793450	1.77E-06	6.5YrCancerDerived_Inh_FAH16to70
2120	ALL	353636.5	3793315	1.76E-06	6.5YrCancerDerived_Inh_FAH16to70
2487	ALL	353591.5	3793570	1.76E-06	6.5YrCancerDerived_Inh_FAH16to70
853	ALL	354023.1	3793168	1.75E-06	6.5YrCancerDerived_Inh_FAH16to70
817	ALL	353923.1	3793143	1.75E-06	6.5YrCancerDerived_Inh_FAH16to70
1481	ALL	353690.5	3792835	1.75E-06	6.5YrCancerDerived_Inh_FAH16to70
2313	ALL	353606.5	3793435	1.75E-06	6.5YrCancerDerived_Inh_FAH16to70

2470	ALL	353591.5	3793555	1.74E-06	6.5YrCancerDerived_Inh_FAH16to70
1066	ALL	354298.1	3793418	1.74E-06	6.5YrCancerDerived_Inh_FAH16to70
1831	ALL	353665.5	3793135	1.74E-06	6.5YrCancerDerived_Inh_FAH16to70
2095	ALL	353636.5	3793300	1.73E-06	6.5YrCancerDerived_Inh_FAH16to70
2194	ALL	353621.5	3793360	1.73E-06	6.5YrCancerDerived_Inh_FAH16to70
468	ALL	353823.1	3792868	1.73E-06	6.5YrCancerDerived_Inh_FAH16to70
2290	ALL	353606.5	3793420	1.73E-06	6.5YrCancerDerived_Inh_FAH16to70
2452	ALL	353591.5	3793540	1.72E-06	6.5YrCancerDerived_Inh_FAH16to70
751	ALL	353873.1	3793093	1.72E-06	6.5YrCancerDerived_Inh_FAH16to70
1452	ALL	353690.5	3792810	1.72E-06	6.5YrCancerDerived_Inh_FAH16to70
818	ALL	353948.1	3793143	1.72E-06	6.5YrCancerDerived_Inh_FAH16to70
978	ALL	354223.1	3793293	1.72E-06	6.5YrCancerDerived_Inh_FAH16to70
1801	ALL	353665.5	3793110	1.71E-06	6.5YrCancerDerived_Inh_FAH16to70
958	ALL	354198.1	3793268	1.71E-06	6.5YrCancerDerived_Inh_FAH16to70
2070	ALL	353636.5	3793285	1.70E-06	6.5YrCancerDerived_Inh_FAH16to70
655	ALL	353848.1	3793018	1.70E-06	6.5YrCancerDerived_Inh_FAH16to70
784	ALL	353898.1	3793118	1.70E-06	6.5YrCancerDerived_Inh_FAH16to70
998	ALL	354248.1	3793318	1.70E-06	6.5YrCancerDerived_Inh_FAH16to70
2266	ALL	353606.5	3793405	1.70E-06	6.5YrCancerDerived_Inh_FAH16to70
2433	ALL	353591.5	3793525	1.70E-06	6.5YrCancerDerived_Inh_FAH16to70
888	ALL	354098.1	3793193	1.70E-06	6.5YrCancerDerived_Inh_FAH16to70
938	ALL	354173.1	3793243	1.69E-06	6.5YrCancerDerived_Inh_FAH16to70
854	ALL	354048.1	3793168	1.69E-06	6.5YrCancerDerived_Inh_FAH16to70
437	ALL	353823.1	3792843	1.69E-06	6.5YrCancerDerived_Inh_FAH16to70
2169	ALL	353621.5	3793345	1.68E-06	6.5YrCancerDerived_Inh_FAH16to70
819	ALL	353973.1	3793143	1.68E-06	6.5YrCancerDerived_Inh_FAH16to70
1423	ALL	353690.5	3792785	1.68E-06	6.5YrCancerDerived_Inh_FAH16to70
1771	ALL	353665.5	3793085	1.68E-06	6.5YrCancerDerived_Inh_FAH16to70
1279	ALL	353715.5	3792660	1.67E-06	6.5YrCancerDerived_Inh_FAH16to70
2414	ALL	353591.5	3793510	1.67E-06	6.5YrCancerDerived_Inh_FAH16to70
2242	ALL	353606.5	3793390	1.67E-06	6.5YrCancerDerived_Inh_FAH16to70
2045	ALL	353636.5	3793270	1.67E-06	6.5YrCancerDerived_Inh_FAH16to70
219	ALL	353798.1	3792668	1.67E-06	6.5YrCancerDerived_Inh_FAH16to70
2376	ALL	353591.5	3793480	1.66E-06	6.5YrCancerDerived_Inh_FAH16to70
1051	ALL	354298.1	3793393	1.66E-06	6.5YrCancerDerived_Inh_FAH16to70
921	ALL	354148.1	3793218	1.66E-06	6.5YrCancerDerived_Inh_FAH16to70
2395	ALL	353591.5	3793495	1.66E-06	6.5YrCancerDerived_Inh_FAH16to70
2356	ALL	353591.5	3793465	1.66E-06	6.5YrCancerDerived_Inh_FAH16to70
2144	ALL	353621.5	3793330	1.66E-06	6.5YrCancerDerived_Inh_FAH16to70
1018	ALL	354273.1	3793343	1.65E-06	6.5YrCancerDerived_Inh_FAH16to70
719	ALL	353873.1	3793068	1.65E-06	6.5YrCancerDerived_Inh_FAH16to70
624	ALL	353848.1	3792993	1.65E-06	6.5YrCancerDerived_Inh_FAH16to70
406	ALL	353823.1	3792818	1.65E-06	6.5YrCancerDerived_Inh_FAH16to70
1741	ALL	353665.5	3793060	1.65E-06	6.5YrCancerDerived_Inh_FAH16to70
820	ALL	353998.1	3793143	1.64E-06	6.5YrCancerDerived_Inh_FAH16to70
2334	ALL	353591.5	3793450	1.64E-06	6.5YrCancerDerived_Inh_FAH16to70
2218	ALL	353606.5	3793375	1.63E-06	6.5YrCancerDerived_Inh_FAH16to70

785	ALL	353923.1	3793118	1.63E-06	6.5YrCancerDerived_Inh_FAH16to70
1926	ALL	353640.5	3793235	1.63E-06	6.5YrCancerDerived_Inh_FAH16to70
2119	ALL	353621.5	3793315	1.63E-06	6.5YrCancerDerived_Inh_FAH16to70
1394	ALL	353690.5	3792760	1.63E-06	6.5YrCancerDerived_Inh_FAH16to70
2312	ALL	353591.5	3793435	1.62E-06	6.5YrCancerDerived_Inh_FAH16to70
889	ALL	354123.1	3793193	1.62E-06	6.5YrCancerDerived_Inh_FAH16to70
855	ALL	354073.1	3793168	1.61E-06	6.5YrCancerDerived_Inh_FAH16to70
1712	ALL	353665.5	3793035	1.61E-06	6.5YrCancerDerived_Inh_FAH16to70
2486	ALL	353576.5	3793570	1.60E-06	6.5YrCancerDerived_Inh_FAH16to70
2094	ALL	353621.5	3793300	1.60E-06	6.5YrCancerDerived_Inh_FAH16to70
593	ALL	353848.1	3792968	1.60E-06	6.5YrCancerDerived_Inh_FAH16to70
2289	ALL	353591.5	3793420	1.60E-06	6.5YrCancerDerived_Inh_FAH16to70
375	ALL	353823.1	3792793	1.60E-06	6.5YrCancerDerived_Inh_FAH16to70
821	ALL	354023.1	3793143	1.60E-06	6.5YrCancerDerived_Inh_FAH16to70
1683	ALL	353665.5	3793010	1.59E-06	6.5YrCancerDerived_Inh_FAH16to70
752	ALL	353898.1	3793093	1.59E-06	6.5YrCancerDerived_Inh_FAH16to70
2193	ALL	353606.5	3793360	1.59E-06	6.5YrCancerDerived_Inh_FAH16to70
1920	ALL	353640.5	3793210	1.59E-06	6.5YrCancerDerived_Inh_FAH16to70
2469	ALL	353576.5	3793555	1.59E-06	6.5YrCancerDerived_Inh_FAH16to70
786	ALL	353948.1	3793118	1.59E-06	6.5YrCancerDerived_Inh_FAH16to70
687	ALL	353873.1	3793043	1.58E-06	6.5YrCancerDerived_Inh_FAH16to70
2451	ALL	353576.5	3793540	1.58E-06	6.5YrCancerDerived_Inh_FAH16to70
2069	ALL	353621.5	3793285	1.58E-06	6.5YrCancerDerived_Inh_FAH16to70
2265	ALL	353591.5	3793405	1.58E-06	6.5YrCancerDerived_Inh_FAH16to70
1035	ALL	354298.1	3793368	1.57E-06	6.5YrCancerDerived_Inh_FAH16to70
2432	ALL	353576.5	3793525	1.57E-06	6.5YrCancerDerived_Inh_FAH16to70
1654	ALL	353665.5	3792985	1.56E-06	6.5YrCancerDerived_Inh_FAH16to70
1365	ALL	353690.5	3792735	1.56E-06	6.5YrCancerDerived_Inh_FAH16to70
979	ALL	354248.1	3793293	1.56E-06	6.5YrCancerDerived_Inh_FAH16to70
939	ALL	354198.1	3793243	1.56E-06	6.5YrCancerDerived_Inh_FAH16to70
959	ALL	354223.1	3793268	1.56E-06	6.5YrCancerDerived_Inh_FAH16to70
2168	ALL	353606.5	3793345	1.56E-06	6.5YrCancerDerived_Inh_FAH16to70
1890	ALL	353640.5	3793185	1.56E-06	6.5YrCancerDerived_Inh_FAH16to70
2413	ALL	353576.5	3793510	1.56E-06	6.5YrCancerDerived_Inh_FAH16to70
562	ALL	353848.1	3792943	1.55E-06	6.5YrCancerDerived_Inh_FAH16to70
787	ALL	353973.1	3793118	1.55E-06	6.5YrCancerDerived_Inh_FAH16to70
2394	ALL	353576.5	3793495	1.55E-06	6.5YrCancerDerived_Inh_FAH16to70
2375	ALL	353576.5	3793480	1.55E-06	6.5YrCancerDerived_Inh_FAH16to70
922	ALL	354173.1	3793218	1.54E-06	6.5YrCancerDerived_Inh_FAH16to70
822	ALL	354048.1	3793143	1.54E-06	6.5YrCancerDerived_Inh_FAH16to70
344	ALL	353823.1	3792768	1.54E-06	6.5YrCancerDerived_Inh_FAH16to70
2044	ALL	353621.5	3793270	1.54E-06	6.5YrCancerDerived_Inh_FAH16to70
856	ALL	354098.1	3793168	1.54E-06	6.5YrCancerDerived_Inh_FAH16to70
2355	ALL	353576.5	3793465	1.54E-06	6.5YrCancerDerived_Inh_FAH16to70
2241	ALL	353591.5	3793390	1.54E-06	6.5YrCancerDerived_Inh_FAH16to70
999	ALL	354273.1	3793318	1.54E-06	6.5YrCancerDerived_Inh_FAH16to70
1625	ALL	353665.5	3792960	1.53E-06	6.5YrCancerDerived_Inh_FAH16to70

1067	ALL	354323.1	3793418	1.53E-06	6.5YrCancerDerived_Inh_FAH16to70
753	ALL	353923.1	3793093	1.53E-06	6.5YrCancerDerived_Inh_FAH16to70
2143	ALL	353606.5	3793330	1.53E-06	6.5YrCancerDerived_Inh_FAH16to70
720	ALL	353898.1	3793068	1.53E-06	6.5YrCancerDerived_Inh_FAH16to70
1860	ALL	353640.5	3793160	1.53E-06	6.5YrCancerDerived_Inh_FAH16to70
2333	ALL	353576.5	3793450	1.52E-06	6.5YrCancerDerived_Inh_FAH16to70
788	ALL	353998.1	3793118	1.51E-06	6.5YrCancerDerived_Inh_FAH16to70
656	ALL	353873.1	3793018	1.51E-06	6.5YrCancerDerived_Inh_FAH16to70
1596	ALL	353665.5	3792935	1.51E-06	6.5YrCancerDerived_Inh_FAH16to70
890	ALL	354148.1	3793193	1.51E-06	6.5YrCancerDerived_Inh_FAH16to70
2118	ALL	353606.5	3793315	1.50E-06	6.5YrCancerDerived_Inh_FAH16to70
531	ALL	353848.1	3792918	1.50E-06	6.5YrCancerDerived_Inh_FAH16to70
2217	ALL	353591.5	3793375	1.50E-06	6.5YrCancerDerived_Inh_FAH16to70
1830	ALL	353640.5	3793135	1.49E-06	6.5YrCancerDerived_Inh_FAH16to70
2311	ALL	353576.5	3793435	1.49E-06	6.5YrCancerDerived_Inh_FAH16to70
1567	ALL	353665.5	3792910	1.49E-06	6.5YrCancerDerived_Inh_FAH16to70
754	ALL	353948.1	3793093	1.48E-06	6.5YrCancerDerived_Inh_FAH16to70
1019	ALL	354298.1	3793343	1.48E-06	6.5YrCancerDerived_Inh_FAH16to70
2093	ALL	353606.5	3793300	1.48E-06	6.5YrCancerDerived_Inh_FAH16to70
823	ALL	354073.1	3793143	1.48E-06	6.5YrCancerDerived_Inh_FAH16to70
313	ALL	353823.1	3792743	1.48E-06	6.5YrCancerDerived_Inh_FAH16to70
2485	ALL	353561.5	3793570	1.48E-06	6.5YrCancerDerived_Inh_FAH16to70
857	ALL	354123.1	3793168	1.48E-06	6.5YrCancerDerived_Inh_FAH16to70
1052	ALL	354323.1	3793393	1.47E-06	6.5YrCancerDerived_Inh_FAH16to70
2468	ALL	353561.5	3793555	1.47E-06	6.5YrCancerDerived_Inh_FAH16to70
2192	ALL	353591.5	3793360	1.47E-06	6.5YrCancerDerived_Inh_FAH16to70
1336	ALL	353690.5	3792710	1.47E-06	6.5YrCancerDerived_Inh_FAH16to70
789	ALL	354023.1	3793118	1.47E-06	6.5YrCancerDerived_Inh_FAH16to70
2288	ALL	353576.5	3793420	1.47E-06	6.5YrCancerDerived_Inh_FAH16to70
2450	ALL	353561.5	3793540	1.47E-06	6.5YrCancerDerived_Inh_FAH16to70
1800	ALL	353640.5	3793110	1.46E-06	6.5YrCancerDerived_Inh_FAH16to70
1538	ALL	353665.5	3792885	1.46E-06	6.5YrCancerDerived_Inh_FAH16to70
2431	ALL	353561.5	3793525	1.46E-06	6.5YrCancerDerived_Inh_FAH16to70
2068	ALL	353606.5	3793285	1.46E-06	6.5YrCancerDerived_Inh_FAH16to70
688	ALL	353898.1	3793043	1.46E-06	6.5YrCancerDerived_Inh_FAH16to70
2412	ALL	353561.5	3793510	1.45E-06	6.5YrCancerDerived_Inh_FAH16to70
500	ALL	353848.1	3792893	1.45E-06	6.5YrCancerDerived_Inh_FAH16to70
625	ALL	353873.1	3792993	1.45E-06	6.5YrCancerDerived_Inh_FAH16to70
2393	ALL	353561.5	3793495	1.45E-06	6.5YrCancerDerived_Inh_FAH16to70
2167	ALL	353591.5	3793345	1.44E-06	6.5YrCancerDerived_Inh_FAH16to70
156	ALL	353773.1	3792618	1.44E-06	6.5YrCancerDerived_Inh_FAH16to70
755	ALL	353973.1	3793093	1.44E-06	6.5YrCancerDerived_Inh_FAH16to70
721	ALL	353923.1	3793068	1.44E-06	6.5YrCancerDerived_Inh_FAH16to70
2264	ALL	353576.5	3793405	1.44E-06	6.5YrCancerDerived_Inh_FAH16to70
2374	ALL	353561.5	3793480	1.44E-06	6.5YrCancerDerived_Inh_FAH16to70
1770	ALL	353640.5	3793085	1.44E-06	6.5YrCancerDerived_Inh_FAH16to70
1925	ALL	353615.5	3793235	1.44E-06	6.5YrCancerDerived_Inh_FAH16to70

940	ALL	354223.1	3793243	1.44E-06	6.5YrCancerDerived_Inh_FAH16to70
1509	ALL	353665.5	3792860	1.43E-06	6.5YrCancerDerived_Inh_FAH16to70
923	ALL	354198.1	3793218	1.43E-06	6.5YrCancerDerived_Inh_FAH16to70
2043	ALL	353606.5	3793270	1.43E-06	6.5YrCancerDerived_Inh_FAH16to70
960	ALL	354248.1	3793268	1.43E-06	6.5YrCancerDerived_Inh_FAH16to70
2354	ALL	353561.5	3793465	1.43E-06	6.5YrCancerDerived_Inh_FAH16to70
980	ALL	354273.1	3793293	1.42E-06	6.5YrCancerDerived_Inh_FAH16to70
891	ALL	354173.1	3793193	1.42E-06	6.5YrCancerDerived_Inh_FAH16to70
790	ALL	354048.1	3793118	1.42E-06	6.5YrCancerDerived_Inh_FAH16to70
188	ALL	353798.1	3792643	1.42E-06	6.5YrCancerDerived_Inh_FAH16to70
824	ALL	354098.1	3793143	1.42E-06	6.5YrCancerDerived_Inh_FAH16to70
2142	ALL	353591.5	3793330	1.42E-06	6.5YrCancerDerived_Inh_FAH16to70
2240	ALL	353576.5	3793390	1.41E-06	6.5YrCancerDerived_Inh_FAH16to70
469	ALL	353848.1	3792868	1.41E-06	6.5YrCancerDerived_Inh_FAH16to70
282	ALL	353823.1	3792718	1.41E-06	6.5YrCancerDerived_Inh_FAH16to70
1036	ALL	354323.1	3793368	1.41E-06	6.5YrCancerDerived_Inh_FAH16to70
1740	ALL	353640.5	3793060	1.41E-06	6.5YrCancerDerived_Inh_FAH16to70
756	ALL	353998.1	3793093	1.41E-06	6.5YrCancerDerived_Inh_FAH16to70
594	ALL	353873.1	3792968	1.41E-06	6.5YrCancerDerived_Inh_FAH16to70
2332	ALL	353561.5	3793450	1.41E-06	6.5YrCancerDerived_Inh_FAH16to70
1919	ALL	353615.5	3793210	1.40E-06	6.5YrCancerDerived_Inh_FAH16to70
1480	ALL	353665.5	3792835	1.40E-06	6.5YrCancerDerived_Inh_FAH16to70
2117	ALL	353591.5	3793315	1.39E-06	6.5YrCancerDerived_Inh_FAH16to70
2216	ALL	353576.5	3793375	1.39E-06	6.5YrCancerDerived_Inh_FAH16to70
657	ALL	353898.1	3793018	1.39E-06	6.5YrCancerDerived_Inh_FAH16to70
438	ALL	353848.1	3792843	1.38E-06	6.5YrCancerDerived_Inh_FAH16to70
1000	ALL	354298.1	3793318	1.38E-06	6.5YrCancerDerived_Inh_FAH16to70
858	ALL	354148.1	3793168	1.38E-06	6.5YrCancerDerived_Inh_FAH16to70
722	ALL	353948.1	3793068	1.38E-06	6.5YrCancerDerived_Inh_FAH16to70
2484	ALL	353546.5	3793570	1.38E-06	6.5YrCancerDerived_Inh_FAH16to70
1711	ALL	353640.5	3793035	1.38E-06	6.5YrCancerDerived_Inh_FAH16to70
2310	ALL	353561.5	3793435	1.38E-06	6.5YrCancerDerived_Inh_FAH16to70
2467	ALL	353546.5	3793555	1.38E-06	6.5YrCancerDerived_Inh_FAH16to70
2449	ALL	353546.5	3793540	1.38E-06	6.5YrCancerDerived_Inh_FAH16to70
1889	ALL	353615.5	3793185	1.37E-06	6.5YrCancerDerived_Inh_FAH16to70
2430	ALL	353546.5	3793525	1.37E-06	6.5YrCancerDerived_Inh_FAH16to70
689	ALL	353923.1	3793043	1.37E-06	6.5YrCancerDerived_Inh_FAH16to70
2191	ALL	353576.5	3793360	1.37E-06	6.5YrCancerDerived_Inh_FAH16to70
791	ALL	354073.1	3793118	1.37E-06	6.5YrCancerDerived_Inh_FAH16to70
757	ALL	354023.1	3793093	1.37E-06	6.5YrCancerDerived_Inh_FAH16to70
2092	ALL	353591.5	3793300	1.37E-06	6.5YrCancerDerived_Inh_FAH16to70
2411	ALL	353546.5	3793510	1.36E-06	6.5YrCancerDerived_Inh_FAH16to70
1068	ALL	354348.1	3793418	1.36E-06	6.5YrCancerDerived_Inh_FAH16to70
1451	ALL	353665.5	3792810	1.36E-06	6.5YrCancerDerived_Inh_FAH16to70
563	ALL	353873.1	3792943	1.36E-06	6.5YrCancerDerived_Inh_FAH16to70
2287	ALL	353561.5	3793420	1.36E-06	6.5YrCancerDerived_Inh_FAH16to70
825	ALL	354123.1	3793143	1.36E-06	6.5YrCancerDerived_Inh_FAH16to70

1682	ALL	353640.5	3793010	1.36E-06	6.5YrCancerDerived_Inh_FAH16to70
2392	ALL	353546.5	3793495	1.35E-06	6.5YrCancerDerived_Inh_FAH16to70
2166	ALL	353576.5	3793345	1.35E-06	6.5YrCancerDerived_Inh_FAH16to70
407	ALL	353848.1	3792818	1.35E-06	6.5YrCancerDerived_Inh_FAH16to70
2067	ALL	353591.5	3793285	1.34E-06	6.5YrCancerDerived_Inh_FAH16to70
1859	ALL	353615.5	3793160	1.34E-06	6.5YrCancerDerived_Inh_FAH16to70
1307	ALL	353690.5	3792685	1.34E-06	6.5YrCancerDerived_Inh_FAH16to70
2373	ALL	353546.5	3793480	1.34E-06	6.5YrCancerDerived_Inh_FAH16to70
723	ALL	353973.1	3793068	1.34E-06	6.5YrCancerDerived_Inh_FAH16to70
1020	ALL	354323.1	3793343	1.34E-06	6.5YrCancerDerived_Inh_FAH16to70
251	ALL	353823.1	3792693	1.33E-06	6.5YrCancerDerived_Inh_FAH16to70
2263	ALL	353561.5	3793405	1.33E-06	6.5YrCancerDerived_Inh_FAH16to70
1653	ALL	353640.5	3792985	1.33E-06	6.5YrCancerDerived_Inh_FAH16to70
2141	ALL	353576.5	3793330	1.33E-06	6.5YrCancerDerived_Inh_FAH16to70
2042	ALL	353591.5	3793270	1.33E-06	6.5YrCancerDerived_Inh_FAH16to70
892	ALL	354198.1	3793193	1.33E-06	6.5YrCancerDerived_Inh_FAH16to70
924	ALL	354223.1	3793218	1.33E-06	6.5YrCancerDerived_Inh_FAH16to70
626	ALL	353898.1	3792993	1.33E-06	6.5YrCancerDerived_Inh_FAH16to70
941	ALL	354248.1	3793243	1.33E-06	6.5YrCancerDerived_Inh_FAH16to70
2353	ALL	353546.5	3793465	1.32E-06	6.5YrCancerDerived_Inh_FAH16to70
961	ALL	354273.1	3793268	1.32E-06	6.5YrCancerDerived_Inh_FAH16to70
758	ALL	354048.1	3793093	1.32E-06	6.5YrCancerDerived_Inh_FAH16to70
1053	ALL	354348.1	3793393	1.32E-06	6.5YrCancerDerived_Inh_FAH16to70
1422	ALL	353665.5	3792785	1.32E-06	6.5YrCancerDerived_Inh_FAH16to70
2239	ALL	353561.5	3793390	1.31E-06	6.5YrCancerDerived_Inh_FAH16to70
1829	ALL	353615.5	3793135	1.31E-06	6.5YrCancerDerived_Inh_FAH16to70
792	ALL	354098.1	3793118	1.31E-06	6.5YrCancerDerived_Inh_FAH16to70
859	ALL	354173.1	3793168	1.31E-06	6.5YrCancerDerived_Inh_FAH16to70
532	ALL	353873.1	3792918	1.31E-06	6.5YrCancerDerived_Inh_FAH16to70
2331	ALL	353546.5	3793450	1.31E-06	6.5YrCancerDerived_Inh_FAH16to70
690	ALL	353948.1	3793043	1.31E-06	6.5YrCancerDerived_Inh_FAH16to70
2116	ALL	353576.5	3793315	1.30E-06	6.5YrCancerDerived_Inh_FAH16to70
1250	ALL	353715.5	3792635	1.30E-06	6.5YrCancerDerived_Inh_FAH16to70
1624	ALL	353640.5	3792960	1.30E-06	6.5YrCancerDerived_Inh_FAH16to70
376	ALL	353848.1	3792793	1.30E-06	6.5YrCancerDerived_Inh_FAH16to70
724	ALL	353998.1	3793068	1.30E-06	6.5YrCancerDerived_Inh_FAH16to70
658	ALL	353923.1	3793018	1.30E-06	6.5YrCancerDerived_Inh_FAH16to70
2483	ALL	353531.5	3793570	1.30E-06	6.5YrCancerDerived_Inh_FAH16to70
2215	ALL	353561.5	3793375	1.30E-06	6.5YrCancerDerived_Inh_FAH16to70
981	ALL	354298.1	3793293	1.29E-06	6.5YrCancerDerived_Inh_FAH16to70
2466	ALL	353531.5	3793555	1.29E-06	6.5YrCancerDerived_Inh_FAH16to70
2309	ALL	353546.5	3793435	1.29E-06	6.5YrCancerDerived_Inh_FAH16to70
2448	ALL	353531.5	3793540	1.29E-06	6.5YrCancerDerived_Inh_FAH16to70
1799	ALL	353615.5	3793110	1.29E-06	6.5YrCancerDerived_Inh_FAH16to70
2429	ALL	353531.5	3793525	1.29E-06	6.5YrCancerDerived_Inh_FAH16to70
2091	ALL	353576.5	3793300	1.28E-06	6.5YrCancerDerived_Inh_FAH16to70
2190	ALL	353561.5	3793360	1.28E-06	6.5YrCancerDerived_Inh_FAH16to70

2410	ALL	353531.5	3793510	1.28E-06	6.5YrCancerDerived_Inh_FAH16to70
1595	ALL	353640.5	3792935	1.28E-06	6.5YrCancerDerived_Inh_FAH16to70
2286	ALL	353546.5	3793420	1.28E-06	6.5YrCancerDerived_Inh_FAH16to70
595	ALL	353898.1	3792968	1.28E-06	6.5YrCancerDerived_Inh_FAH16to70
826	ALL	354148.1	3793143	1.28E-06	6.5YrCancerDerived_Inh_FAH16to70
1037	ALL	354348.1	3793368	1.27E-06	6.5YrCancerDerived_Inh_FAH16to70
759	ALL	354073.1	3793093	1.27E-06	6.5YrCancerDerived_Inh_FAH16to70
2391	ALL	353531.5	3793495	1.27E-06	6.5YrCancerDerived_Inh_FAH16to70
1393	ALL	353665.5	3792760	1.27E-06	6.5YrCancerDerived_Inh_FAH16to70
2165	ALL	353561.5	3793345	1.27E-06	6.5YrCancerDerived_Inh_FAH16to70
2066	ALL	353576.5	3793285	1.26E-06	6.5YrCancerDerived_Inh_FAH16to70
2262	ALL	353546.5	3793405	1.26E-06	6.5YrCancerDerived_Inh_FAH16to70
1001	ALL	354323.1	3793318	1.26E-06	6.5YrCancerDerived_Inh_FAH16to70
1769	ALL	353615.5	3793085	1.26E-06	6.5YrCancerDerived_Inh_FAH16to70
2372	ALL	353531.5	3793480	1.26E-06	6.5YrCancerDerived_Inh_FAH16to70
501	ALL	353873.1	3792893	1.26E-06	6.5YrCancerDerived_Inh_FAH16to70
725	ALL	354023.1	3793068	1.26E-06	6.5YrCancerDerived_Inh_FAH16to70
691	ALL	353973.1	3793043	1.26E-06	6.5YrCancerDerived_Inh_FAH16to70
793	ALL	354123.1	3793118	1.25E-06	6.5YrCancerDerived_Inh_FAH16to70
1566	ALL	353640.5	3792910	1.25E-06	6.5YrCancerDerived_Inh_FAH16to70
1918	ALL	353590.5	3793210	1.25E-06	6.5YrCancerDerived_Inh_FAH16to70
345	ALL	353848.1	3792768	1.25E-06	6.5YrCancerDerived_Inh_FAH16to70
2140	ALL	353561.5	3793330	1.25E-06	6.5YrCancerDerived_Inh_FAH16to70
2352	ALL	353531.5	3793465	1.25E-06	6.5YrCancerDerived_Inh_FAH16to70
2041	ALL	353576.5	3793270	1.25E-06	6.5YrCancerDerived_Inh_FAH16to70
2238	ALL	353546.5	3793390	1.24E-06	6.5YrCancerDerived_Inh_FAH16to70
627	ALL	353923.1	3792993	1.24E-06	6.5YrCancerDerived_Inh_FAH16to70
893	ALL	354223.1	3793193	1.24E-06	6.5YrCancerDerived_Inh_FAH16to70
1739	ALL	353615.5	3793060	1.24E-06	6.5YrCancerDerived_Inh_FAH16to70
659	ALL	353948.1	3793018	1.23E-06	6.5YrCancerDerived_Inh_FAH16to70
2330	ALL	353531.5	3793450	1.23E-06	6.5YrCancerDerived_Inh_FAH16to70
925	ALL	354248.1	3793218	1.23E-06	6.5YrCancerDerived_Inh_FAH16to70
942	ALL	354273.1	3793243	1.23E-06	6.5YrCancerDerived_Inh_FAH16to70
2115	ALL	353561.5	3793315	1.23E-06	6.5YrCancerDerived_Inh_FAH16to70
1537	ALL	353640.5	3792885	1.23E-06	6.5YrCancerDerived_Inh_FAH16to70
1888	ALL	353590.5	3793185	1.23E-06	6.5YrCancerDerived_Inh_FAH16to70
860	ALL	354198.1	3793168	1.23E-06	6.5YrCancerDerived_Inh_FAH16to70
564	ALL	353898.1	3792943	1.23E-06	6.5YrCancerDerived_Inh_FAH16to70
2214	ALL	353546.5	3793375	1.23E-06	6.5YrCancerDerived_Inh_FAH16to70
220	ALL	353823.1	3792668	1.22E-06	6.5YrCancerDerived_Inh_FAH16to70
1069	ALL	354373.1	3793418	1.22E-06	6.5YrCancerDerived_Inh_FAH16to70
470	ALL	353873.1	3792868	1.22E-06	6.5YrCancerDerived_Inh_FAH16to70
760	ALL	354098.1	3793093	1.22E-06	6.5YrCancerDerived_Inh_FAH16to70
2308	ALL	353531.5	3793435	1.22E-06	6.5YrCancerDerived_Inh_FAH16to70
726	ALL	354048.1	3793068	1.22E-06	6.5YrCancerDerived_Inh_FAH16to70
2482	ALL	353516.5	3793570	1.22E-06	6.5YrCancerDerived_Inh_FAH16to70
1021	ALL	354348.1	3793343	1.22E-06	6.5YrCancerDerived_Inh_FAH16to70

2090	ALL	353561.5	3793300	1.21E-06	6.5YrCancerDerived_Inh_FAH16to70
692	ALL	353998.1	3793043	1.21E-06	6.5YrCancerDerived_Inh_FAH16to70
2465	ALL	353516.5	3793555	1.21E-06	6.5YrCancerDerived_Inh_FAH16to70
2189	ALL	353546.5	3793360	1.21E-06	6.5YrCancerDerived_Inh_FAH16to70
1710	ALL	353615.5	3793035	1.21E-06	6.5YrCancerDerived_Inh_FAH16to70
962	ALL	354298.1	3793268	1.21E-06	6.5YrCancerDerived_Inh_FAH16to70
2447	ALL	353516.5	3793540	1.21E-06	6.5YrCancerDerived_Inh_FAH16to70
827	ALL	354173.1	3793143	1.21E-06	6.5YrCancerDerived_Inh_FAH16to70
2285	ALL	353531.5	3793420	1.21E-06	6.5YrCancerDerived_Inh_FAH16to70
1364	ALL	353665.5	3792735	1.21E-06	6.5YrCancerDerived_Inh_FAH16to70
2428	ALL	353516.5	3793525	1.20E-06	6.5YrCancerDerived_Inh_FAH16to70
1858	ALL	353590.5	3793160	1.20E-06	6.5YrCancerDerived_Inh_FAH16to70
2409	ALL	353516.5	3793510	1.20E-06	6.5YrCancerDerived_Inh_FAH16to70
1508	ALL	353640.5	3792860	1.20E-06	6.5YrCancerDerived_Inh_FAH16to70
2371	ALL	353516.5	3793480	1.20E-06	6.5YrCancerDerived_Inh_FAH16to70
2390	ALL	353516.5	3793495	1.20E-06	6.5YrCancerDerived_Inh_FAH16to70
314	ALL	353848.1	3792743	1.20E-06	6.5YrCancerDerived_Inh_FAH16to70
439	ALL	353873.1	3792843	1.19E-06	6.5YrCancerDerived_Inh_FAH16to70
2261	ALL	353531.5	3793405	1.19E-06	6.5YrCancerDerived_Inh_FAH16to70
2065	ALL	353561.5	3793285	1.19E-06	6.5YrCancerDerived_Inh_FAH16to70
2351	ALL	353516.5	3793465	1.19E-06	6.5YrCancerDerived_Inh_FAH16to70
2164	ALL	353546.5	3793345	1.19E-06	6.5YrCancerDerived_Inh_FAH16to70
1054	ALL	354373.1	3793393	1.19E-06	6.5YrCancerDerived_Inh_FAH16to70
596	ALL	353923.1	3792968	1.19E-06	6.5YrCancerDerived_Inh_FAH16to70
982	ALL	354323.1	3793293	1.19E-06	6.5YrCancerDerived_Inh_FAH16to70
660	ALL	353973.1	3793018	1.18E-06	6.5YrCancerDerived_Inh_FAH16to70
1681	ALL	353615.5	3793010	1.18E-06	6.5YrCancerDerived_Inh_FAH16to70
794	ALL	354148.1	3793118	1.18E-06	6.5YrCancerDerived_Inh_FAH16to70
533	ALL	353898.1	3792918	1.18E-06	6.5YrCancerDerived_Inh_FAH16to70
2040	ALL	353561.5	3793270	1.18E-06	6.5YrCancerDerived_Inh_FAH16to70
2237	ALL	353531.5	3793390	1.18E-06	6.5YrCancerDerived_Inh_FAH16to70
2329	ALL	353516.5	3793450	1.18E-06	6.5YrCancerDerived_Inh_FAH16to70
2139	ALL	353546.5	3793330	1.18E-06	6.5YrCancerDerived_Inh_FAH16to70
727	ALL	354073.1	3793068	1.17E-06	6.5YrCancerDerived_Inh_FAH16to70
1828	ALL	353590.5	3793135	1.17E-06	6.5YrCancerDerived_Inh_FAH16to70
693	ALL	354023.1	3793043	1.17E-06	6.5YrCancerDerived_Inh_FAH16to70
628	ALL	353948.1	3792993	1.17E-06	6.5YrCancerDerived_Inh_FAH16to70
1278	ALL	353690.5	3792660	1.17E-06	6.5YrCancerDerived_Inh_FAH16to70
1479	ALL	353640.5	3792835	1.16E-06	6.5YrCancerDerived_Inh_FAH16to70
761	ALL	354123.1	3793093	1.16E-06	6.5YrCancerDerived_Inh_FAH16to70
2446	ALL	353501.5	3793540	1.16E-06	6.5YrCancerDerived_Inh_FAH16to70
2427	ALL	353501.5	3793525	1.16E-06	6.5YrCancerDerived_Inh_FAH16to70
1652	ALL	353615.5	3792985	1.16E-06	6.5YrCancerDerived_Inh_FAH16to70
2213	ALL	353531.5	3793375	1.16E-06	6.5YrCancerDerived_Inh_FAH16to70
408	ALL	353873.1	3792818	1.16E-06	6.5YrCancerDerived_Inh_FAH16to70
2464	ALL	353501.5	3793555	1.16E-06	6.5YrCancerDerived_Inh_FAH16to70
2307	ALL	353516.5	3793435	1.16E-06	6.5YrCancerDerived_Inh_FAH16to70

2114	ALL	353546.5	3793315	1.16E-06	6.5YrCancerDerived_Inh_FAH16to70
2481	ALL	353501.5	3793570	1.16E-06	6.5YrCancerDerived_Inh_FAH16to70
2408	ALL	353501.5	3793510	1.16E-06	6.5YrCancerDerived_Inh_FAH16to70
1002	ALL	354348.1	3793318	1.16E-06	6.5YrCancerDerived_Inh_FAH16to70
1038	ALL	354373.1	3793368	1.15E-06	6.5YrCancerDerived_Inh_FAH16to70
894	ALL	354248.1	3793193	1.15E-06	6.5YrCancerDerived_Inh_FAH16to70
2389	ALL	353501.5	3793495	1.15E-06	6.5YrCancerDerived_Inh_FAH16to70
2370	ALL	353501.5	3793480	1.15E-06	6.5YrCancerDerived_Inh_FAH16to70
1798	ALL	353590.5	3793110	1.15E-06	6.5YrCancerDerived_Inh_FAH16to70
861	ALL	354223.1	3793168	1.15E-06	6.5YrCancerDerived_Inh_FAH16to70
926	ALL	354273.1	3793218	1.15E-06	6.5YrCancerDerived_Inh_FAH16to70
2284	ALL	353516.5	3793420	1.14E-06	6.5YrCancerDerived_Inh_FAH16to70
2188	ALL	353531.5	3793360	1.14E-06	6.5YrCancerDerived_Inh_FAH16to70
661	ALL	353998.1	3793018	1.14E-06	6.5YrCancerDerived_Inh_FAH16to70
2350	ALL	353501.5	3793465	1.14E-06	6.5YrCancerDerived_Inh_FAH16to70
2089	ALL	353546.5	3793300	1.14E-06	6.5YrCancerDerived_Inh_FAH16to70
283	ALL	353848.1	3792718	1.14E-06	6.5YrCancerDerived_Inh_FAH16to70
828	ALL	354198.1	3793143	1.14E-06	6.5YrCancerDerived_Inh_FAH16to70
1623	ALL	353615.5	3792960	1.14E-06	6.5YrCancerDerived_Inh_FAH16to70
565	ALL	353923.1	3792943	1.14E-06	6.5YrCancerDerived_Inh_FAH16to70
694	ALL	354048.1	3793043	1.14E-06	6.5YrCancerDerived_Inh_FAH16to70
502	ALL	353898.1	3792893	1.13E-06	6.5YrCancerDerived_Inh_FAH16to70
943	ALL	354298.1	3793243	1.13E-06	6.5YrCancerDerived_Inh_FAH16to70
2260	ALL	353516.5	3793405	1.13E-06	6.5YrCancerDerived_Inh_FAH16to70
1335	ALL	353665.5	3792710	1.13E-06	6.5YrCancerDerived_Inh_FAH16to70
1450	ALL	353640.5	3792810	1.13E-06	6.5YrCancerDerived_Inh_FAH16to70
728	ALL	354098.1	3793068	1.13E-06	6.5YrCancerDerived_Inh_FAH16to70
2426	ALL	353486.5	3793525	1.13E-06	6.5YrCancerDerived_Inh_FAH16to70
2163	ALL	353531.5	3793345	1.13E-06	6.5YrCancerDerived_Inh_FAH16to70
2445	ALL	353486.5	3793540	1.13E-06	6.5YrCancerDerived_Inh_FAH16to70
795	ALL	354173.1	3793118	1.13E-06	6.5YrCancerDerived_Inh_FAH16to70
157	ALL	353798.1	3792618	1.12E-06	6.5YrCancerDerived_Inh_FAH16to70
1768	ALL	353590.5	3793085	1.12E-06	6.5YrCancerDerived_Inh_FAH16to70
2064	ALL	353546.5	3793285	1.12E-06	6.5YrCancerDerived_Inh_FAH16to70
629	ALL	353973.1	3792993	1.12E-06	6.5YrCancerDerived_Inh_FAH16to70
2407	ALL	353486.5	3793510	1.12E-06	6.5YrCancerDerived_Inh_FAH16to70
597	ALL	353948.1	3792968	1.12E-06	6.5YrCancerDerived_Inh_FAH16to70
2463	ALL	353486.5	3793555	1.12E-06	6.5YrCancerDerived_Inh_FAH16to70
2328	ALL	353501.5	3793450	1.12E-06	6.5YrCancerDerived_Inh_FAH16to70
963	ALL	354323.1	3793268	1.12E-06	6.5YrCancerDerived_Inh_FAH16to70
2388	ALL	353486.5	3793495	1.12E-06	6.5YrCancerDerived_Inh_FAH16to70
2236	ALL	353516.5	3793390	1.11E-06	6.5YrCancerDerived_Inh_FAH16to70
1594	ALL	353615.5	3792935	1.11E-06	6.5YrCancerDerived_Inh_FAH16to70
2480	ALL	353486.5	3793570	1.11E-06	6.5YrCancerDerived_Inh_FAH16to70
377	ALL	353873.1	3792793	1.11E-06	6.5YrCancerDerived_Inh_FAH16to70
2138	ALL	353531.5	3793330	1.11E-06	6.5YrCancerDerived_Inh_FAH16to70
2369	ALL	353486.5	3793480	1.11E-06	6.5YrCancerDerived_Inh_FAH16to70

2039	ALL	353546.5	3793270	1.11E-06	6.5YrCancerDerived_Inh_FAH16to70
1917	ALL	353565.5	3793210	1.11E-06	6.5YrCancerDerived_Inh_FAH16to70
662	ALL	354023.1	3793018	1.11E-06	6.5YrCancerDerived_Inh_FAH16to70
1022	ALL	354373.1	3793343	1.10E-06	6.5YrCancerDerived_Inh_FAH16to70
1070	ALL	354398.1	3793418	1.10E-06	6.5YrCancerDerived_Inh_FAH16to70
2496	ALL	353486.5	3793585	1.10E-06	6.5YrCancerDerived_Inh_FAH16to70
762	ALL	354148.1	3793093	1.10E-06	6.5YrCancerDerived_Inh_FAH16to70
1738	ALL	353590.5	3793060	1.10E-06	6.5YrCancerDerived_Inh_FAH16to70
2306	ALL	353501.5	3793435	1.10E-06	6.5YrCancerDerived_Inh_FAH16to70
2212	ALL	353516.5	3793375	1.10E-06	6.5YrCancerDerived_Inh_FAH16to70
471	ALL	353898.1	3792868	1.10E-06	6.5YrCancerDerived_Inh_FAH16to70
2462	ALL	353471.5	3793555	1.10E-06	6.5YrCancerDerived_Inh_FAH16to70
983	ALL	354348.1	3793293	1.10E-06	6.5YrCancerDerived_Inh_FAH16to70
2349	ALL	353486.5	3793465	1.10E-06	6.5YrCancerDerived_Inh_FAH16to70
2026	ALL	353546.5	3793255	1.09E-06	6.5YrCancerDerived_Inh_FAH16to70
695	ALL	354073.1	3793043	1.09E-06	6.5YrCancerDerived_Inh_FAH16to70
2113	ALL	353531.5	3793315	1.09E-06	6.5YrCancerDerived_Inh_FAH16to70
2444	ALL	353471.5	3793540	1.09E-06	6.5YrCancerDerived_Inh_FAH16to70
2479	ALL	353471.5	3793570	1.09E-06	6.5YrCancerDerived_Inh_FAH16to70
2425	ALL	353471.5	3793525	1.09E-06	6.5YrCancerDerived_Inh_FAH16to70
534	ALL	353923.1	3792918	1.09E-06	6.5YrCancerDerived_Inh_FAH16to70
2406	ALL	353471.5	3793510	1.09E-06	6.5YrCancerDerived_Inh_FAH16to70
1421	ALL	353640.5	3792785	1.09E-06	6.5YrCancerDerived_Inh_FAH16to70
1887	ALL	353565.5	3793185	1.09E-06	6.5YrCancerDerived_Inh_FAH16to70
1565	ALL	353615.5	3792910	1.09E-06	6.5YrCancerDerived_Inh_FAH16to70
2387	ALL	353471.5	3793495	1.09E-06	6.5YrCancerDerived_Inh_FAH16to70
2283	ALL	353501.5	3793420	1.08E-06	6.5YrCancerDerived_Inh_FAH16to70
189	ALL	353823.1	3792643	1.08E-06	6.5YrCancerDerived_Inh_FAH16to70
2187	ALL	353516.5	3793360	1.08E-06	6.5YrCancerDerived_Inh_FAH16to70
2368	ALL	353471.5	3793480	1.08E-06	6.5YrCancerDerived_Inh_FAH16to70
2495	ALL	353471.5	3793585	1.08E-06	6.5YrCancerDerived_Inh_FAH16to70
630	ALL	353998.1	3792993	1.08E-06	6.5YrCancerDerived_Inh_FAH16to70
1857	ALL	353565.5	3793160	1.08E-06	6.5YrCancerDerived_Inh_FAH16to70
729	ALL	354123.1	3793068	1.08E-06	6.5YrCancerDerived_Inh_FAH16to70
252	ALL	353848.1	3792693	1.08E-06	6.5YrCancerDerived_Inh_FAH16to70
895	ALL	354273.1	3793193	1.08E-06	6.5YrCancerDerived_Inh_FAH16to70
2088	ALL	353531.5	3793300	1.08E-06	6.5YrCancerDerived_Inh_FAH16to70
862	ALL	354248.1	3793168	1.08E-06	6.5YrCancerDerived_Inh_FAH16to70
1709	ALL	353590.5	3793035	1.08E-06	6.5YrCancerDerived_Inh_FAH16to70
2478	ALL	353456.5	3793570	1.08E-06	6.5YrCancerDerived_Inh_FAH16to70
1055	ALL	354398.1	3793393	1.07E-06	6.5YrCancerDerived_Inh_FAH16to70
2461	ALL	353456.5	3793555	1.07E-06	6.5YrCancerDerived_Inh_FAH16to70
346	ALL	353873.1	3792768	1.07E-06	6.5YrCancerDerived_Inh_FAH16to70
2327	ALL	353486.5	3793450	1.07E-06	6.5YrCancerDerived_Inh_FAH16to70
566	ALL	353948.1	3792943	1.07E-06	6.5YrCancerDerived_Inh_FAH16to70
829	ALL	354223.1	3793143	1.07E-06	6.5YrCancerDerived_Inh_FAH16to70
663	ALL	354048.1	3793018	1.07E-06	6.5YrCancerDerived_Inh_FAH16to70

2259	ALL	353501.5	3793405	1.07E-06	6.5YrCancerDerived_Inh_FAH16to70
2494	ALL	353456.5	3793585	1.07E-06	6.5YrCancerDerived_Inh_FAH16to70
598	ALL	353973.1	3792968	1.07E-06	6.5YrCancerDerived_Inh_FAH16to70
2162	ALL	353516.5	3793345	1.07E-06	6.5YrCancerDerived_Inh_FAH16to70
440	ALL	353898.1	3792843	1.07E-06	6.5YrCancerDerived_Inh_FAH16to70
2348	ALL	353471.5	3793465	1.07E-06	6.5YrCancerDerived_Inh_FAH16to70
2443	ALL	353456.5	3793540	1.07E-06	6.5YrCancerDerived_Inh_FAH16to70
796	ALL	354198.1	3793118	1.06E-06	6.5YrCancerDerived_Inh_FAH16to70
2424	ALL	353456.5	3793525	1.06E-06	6.5YrCancerDerived_Inh_FAH16to70
2477	ALL	353441.5	3793570	1.06E-06	6.5YrCancerDerived_Inh_FAH16to70
2493	ALL	353441.5	3793585	1.06E-06	6.5YrCancerDerived_Inh_FAH16to70
1536	ALL	353615.5	3792885	1.06E-06	6.5YrCancerDerived_Inh_FAH16to70
927	ALL	354298.1	3793218	1.06E-06	6.5YrCancerDerived_Inh_FAH16to70
2063	ALL	353531.5	3793285	1.06E-06	6.5YrCancerDerived_Inh_FAH16to70
2405	ALL	353456.5	3793510	1.06E-06	6.5YrCancerDerived_Inh_FAH16to70
2460	ALL	353441.5	3793555	1.06E-06	6.5YrCancerDerived_Inh_FAH16to70
1827	ALL	353565.5	3793135	1.06E-06	6.5YrCancerDerived_Inh_FAH16to70
1003	ALL	354373.1	3793318	1.05E-06	6.5YrCancerDerived_Inh_FAH16to70
2235	ALL	353501.5	3793390	1.05E-06	6.5YrCancerDerived_Inh_FAH16to70
2386	ALL	353456.5	3793495	1.05E-06	6.5YrCancerDerived_Inh_FAH16to70
763	ALL	354173.1	3793093	1.05E-06	6.5YrCancerDerived_Inh_FAH16to70
944	ALL	354323.1	3793243	1.05E-06	6.5YrCancerDerived_Inh_FAH16to70
1680	ALL	353590.5	3793010	1.05E-06	6.5YrCancerDerived_Inh_FAH16to70
2137	ALL	353516.5	3793330	1.05E-06	6.5YrCancerDerived_Inh_FAH16to70
696	ALL	354098.1	3793043	1.05E-06	6.5YrCancerDerived_Inh_FAH16to70
2442	ALL	353441.5	3793540	1.05E-06	6.5YrCancerDerived_Inh_FAH16to70
2367	ALL	353456.5	3793480	1.05E-06	6.5YrCancerDerived_Inh_FAH16to70
2038	ALL	353531.5	3793270	1.05E-06	6.5YrCancerDerived_Inh_FAH16to70
1039	ALL	354398.1	3793368	1.04E-06	6.5YrCancerDerived_Inh_FAH16to70
2305	ALL	353486.5	3793435	1.04E-06	6.5YrCancerDerived_Inh_FAH16to70
503	ALL	353923.1	3792893	1.04E-06	6.5YrCancerDerived_Inh_FAH16to70
631	ALL	354023.1	3792993	1.04E-06	6.5YrCancerDerived_Inh_FAH16to70
1392	ALL	353640.5	3792760	1.04E-06	6.5YrCancerDerived_Inh_FAH16to70
2423	ALL	353441.5	3793525	1.04E-06	6.5YrCancerDerived_Inh_FAH16to70
2211	ALL	353501.5	3793375	1.04E-06	6.5YrCancerDerived_Inh_FAH16to70
2326	ALL	353471.5	3793450	1.04E-06	6.5YrCancerDerived_Inh_FAH16to70
2112	ALL	353516.5	3793315	1.04E-06	6.5YrCancerDerived_Inh_FAH16to70
964	ALL	354348.1	3793268	1.04E-06	6.5YrCancerDerived_Inh_FAH16to70
2404	ALL	353441.5	3793510	1.04E-06	6.5YrCancerDerived_Inh_FAH16to70
2025	ALL	353531.5	3793255	1.04E-06	6.5YrCancerDerived_Inh_FAH16to70
1797	ALL	353565.5	3793110	1.04E-06	6.5YrCancerDerived_Inh_FAH16to70
409	ALL	353898.1	3792818	1.03E-06	6.5YrCancerDerived_Inh_FAH16to70
1507	ALL	353615.5	3792860	1.03E-06	6.5YrCancerDerived_Inh_FAH16to70
2347	ALL	353456.5	3793465	1.03E-06	6.5YrCancerDerived_Inh_FAH16to70
664	ALL	354073.1	3793018	1.03E-06	6.5YrCancerDerived_Inh_FAH16to70
1651	ALL	353590.5	3792985	1.03E-06	6.5YrCancerDerived_Inh_FAH16to70
1306	ALL	353665.5	3792685	1.03E-06	6.5YrCancerDerived_Inh_FAH16to70

730	ALL	354148.1	3793068	1.03E-06	6.5YrCancerDerived_Inh_FAH16to70
2492	ALL	353426.5	3793585	1.03E-06	6.5YrCancerDerived_Inh_FAH16to70
2282	ALL	353486.5	3793420	1.03E-06	6.5YrCancerDerived_Inh_FAH16to70
2476	ALL	353426.5	3793570	1.03E-06	6.5YrCancerDerived_Inh_FAH16to70
2385	ALL	353441.5	3793495	1.03E-06	6.5YrCancerDerived_Inh_FAH16to70
2186	ALL	353501.5	3793360	1.03E-06	6.5YrCancerDerived_Inh_FAH16to70
1916	ALL	353540.5	3793210	1.02E-06	6.5YrCancerDerived_Inh_FAH16to70
599	ALL	353998.1	3792968	1.02E-06	6.5YrCancerDerived_Inh_FAH16to70
535	ALL	353948.1	3792918	1.02E-06	6.5YrCancerDerived_Inh_FAH16to70
2459	ALL	353426.5	3793555	1.02E-06	6.5YrCancerDerived_Inh_FAH16to70
2087	ALL	353516.5	3793300	1.02E-06	6.5YrCancerDerived_Inh_FAH16to70
315	ALL	353873.1	3792743	1.02E-06	6.5YrCancerDerived_Inh_FAH16to70
567	ALL	353973.1	3792943	1.02E-06	6.5YrCancerDerived_Inh_FAH16to70
2441	ALL	353426.5	3793540	1.02E-06	6.5YrCancerDerived_Inh_FAH16to70
2366	ALL	353441.5	3793480	1.01E-06	6.5YrCancerDerived_Inh_FAH16to70
2258	ALL	353486.5	3793405	1.01E-06	6.5YrCancerDerived_Inh_FAH16to70
1767	ALL	353565.5	3793085	1.01E-06	6.5YrCancerDerived_Inh_FAH16to70
2304	ALL	353471.5	3793435	1.01E-06	6.5YrCancerDerived_Inh_FAH16to70
2161	ALL	353501.5	3793345	1.01E-06	6.5YrCancerDerived_Inh_FAH16to70
697	ALL	354123.1	3793043	1.01E-06	6.5YrCancerDerived_Inh_FAH16to70
632	ALL	354048.1	3792993	1.01E-06	6.5YrCancerDerived_Inh_FAH16to70
863	ALL	354273.1	3793168	1.01E-06	6.5YrCancerDerived_Inh_FAH16to70
1622	ALL	353590.5	3792960	1.01E-06	6.5YrCancerDerived_Inh_FAH16to70
472	ALL	353923.1	3792868	1.01E-06	6.5YrCancerDerived_Inh_FAH16to70
2422	ALL	353426.5	3793525	1.01E-06	6.5YrCancerDerived_Inh_FAH16to70
125	ALL	353773.1	3792593	1.01E-06	6.5YrCancerDerived_Inh_FAH16to70
984	ALL	354373.1	3793293	1.01E-06	6.5YrCancerDerived_Inh_FAH16to70
797	ALL	354223.1	3793118	1.01E-06	6.5YrCancerDerived_Inh_FAH16to70
1023	ALL	354398.1	3793343	1.01E-06	6.5YrCancerDerived_Inh_FAH16to70
2062	ALL	353516.5	3793285	1.01E-06	6.5YrCancerDerived_Inh_FAH16to70
830	ALL	354248.1	3793143	1.00E-06	6.5YrCancerDerived_Inh_FAH16to70
2325	ALL	353456.5	3793450	1.00E-06	6.5YrCancerDerived_Inh_FAH16to70
1071	ALL	354423.1	3793418	1.00E-06	6.5YrCancerDerived_Inh_FAH16to70
2234	ALL	353486.5	3793390	1.00E-06	6.5YrCancerDerived_Inh_FAH16to70
1478	ALL	353615.5	3792835	1.00E-06	6.5YrCancerDerived_Inh_FAH16to70
2136	ALL	353501.5	3793330	9.99E-07	6.5YrCancerDerived_Inh_FAH16to70
1221	ALL	353715.5	3792610	9.99E-07	6.5YrCancerDerived_Inh_FAH16to70
221	ALL	353848.1	3792668	9.98E-07	6.5YrCancerDerived_Inh_FAH16to70
2403	ALL	353426.5	3793510	9.97E-07	6.5YrCancerDerived_Inh_FAH16to70
764	ALL	354198.1	3793093	9.97E-07	6.5YrCancerDerived_Inh_FAH16to70
1886	ALL	353540.5	3793185	9.96E-07	6.5YrCancerDerived_Inh_FAH16to70
896	ALL	354298.1	3793193	9.96E-07	6.5YrCancerDerived_Inh_FAH16to70
2037	ALL	353516.5	3793270	9.93E-07	6.5YrCancerDerived_Inh_FAH16to70
665	ALL	354098.1	3793018	9.92E-07	6.5YrCancerDerived_Inh_FAH16to70
2475	ALL	353411.5	3793570	9.92E-07	6.5YrCancerDerived_Inh_FAH16to70
2491	ALL	353411.5	3793585	9.92E-07	6.5YrCancerDerived_Inh_FAH16to70
2346	ALL	353441.5	3793465	9.92E-07	6.5YrCancerDerived_Inh_FAH16to70

928	ALL	354323.1	3793218	9.92E-07	6.5YrCancerDerived_Inh_FAH16to70
1737	ALL	353565.5	3793060	9.89E-07	6.5YrCancerDerived_Inh_FAH16to70
2210	ALL	353486.5	3793375	9.87E-07	6.5YrCancerDerived_Inh_FAH16to70
2384	ALL	353426.5	3793495	9.86E-07	6.5YrCancerDerived_Inh_FAH16to70
1363	ALL	353640.5	3792735	9.86E-07	6.5YrCancerDerived_Inh_FAH16to70
378	ALL	353898.1	3792793	9.86E-07	6.5YrCancerDerived_Inh_FAH16to70
2458	ALL	353411.5	3793555	9.86E-07	6.5YrCancerDerived_Inh_FAH16to70
2111	ALL	353501.5	3793315	9.86E-07	6.5YrCancerDerived_Inh_FAH16to70
2281	ALL	353471.5	3793420	9.86E-07	6.5YrCancerDerived_Inh_FAH16to70
1593	ALL	353590.5	3792935	9.85E-07	6.5YrCancerDerived_Inh_FAH16to70
600	ALL	354023.1	3792968	9.83E-07	6.5YrCancerDerived_Inh_FAH16to70
2024	ALL	353516.5	3793255	9.82E-07	6.5YrCancerDerived_Inh_FAH16to70
945	ALL	354348.1	3793243	9.81E-07	6.5YrCancerDerived_Inh_FAH16to70
1249	ALL	353690.5	3792635	9.81E-07	6.5YrCancerDerived_Inh_FAH16to70
731	ALL	354173.1	3793068	9.80E-07	6.5YrCancerDerived_Inh_FAH16to70
504	ALL	353948.1	3792893	9.79E-07	6.5YrCancerDerived_Inh_FAH16to70
1056	ALL	354423.1	3793393	9.77E-07	6.5YrCancerDerived_Inh_FAH16to70
441	ALL	353923.1	3792843	9.75E-07	6.5YrCancerDerived_Inh_FAH16to70
633	ALL	354073.1	3792993	9.74E-07	6.5YrCancerDerived_Inh_FAH16to70
2303	ALL	353456.5	3793435	9.74E-07	6.5YrCancerDerived_Inh_FAH16to70
2185	ALL	353486.5	3793360	9.74E-07	6.5YrCancerDerived_Inh_FAH16to70
2440	ALL	353411.5	3793540	9.74E-07	6.5YrCancerDerived_Inh_FAH16to70
284	ALL	353873.1	3792718	9.73E-07	6.5YrCancerDerived_Inh_FAH16to70
568	ALL	353998.1	3792943	9.72E-07	6.5YrCancerDerived_Inh_FAH16to70
2365	ALL	353426.5	3793480	9.72E-07	6.5YrCancerDerived_Inh_FAH16to70
2086	ALL	353501.5	3793300	9.71E-07	6.5YrCancerDerived_Inh_FAH16to70
536	ALL	353973.1	3792918	9.70E-07	6.5YrCancerDerived_Inh_FAH16to70
1004	ALL	354398.1	3793318	9.67E-07	6.5YrCancerDerived_Inh_FAH16to70
1708	ALL	353565.5	3793035	9.66E-07	6.5YrCancerDerived_Inh_FAH16to70
698	ALL	354148.1	3793043	9.66E-07	6.5YrCancerDerived_Inh_FAH16to70
1449	ALL	353615.5	3792810	9.65E-07	6.5YrCancerDerived_Inh_FAH16to70
2257	ALL	353471.5	3793405	9.65E-07	6.5YrCancerDerived_Inh_FAH16to70
1856	ALL	353540.5	3793160	9.64E-07	6.5YrCancerDerived_Inh_FAH16to70
2421	ALL	353411.5	3793525	9.63E-07	6.5YrCancerDerived_Inh_FAH16to70
2324	ALL	353441.5	3793450	9.63E-07	6.5YrCancerDerived_Inh_FAH16to70
2490	ALL	353396.5	3793585	9.62E-07	6.5YrCancerDerived_Inh_FAH16to70
1564	ALL	353590.5	3792910	9.61E-07	6.5YrCancerDerived_Inh_FAH16to70
2160	ALL	353486.5	3793345	9.61E-07	6.5YrCancerDerived_Inh_FAH16to70
965	ALL	354373.1	3793268	9.59E-07	6.5YrCancerDerived_Inh_FAH16to70
2474	ALL	353396.5	3793570	9.58E-07	6.5YrCancerDerived_Inh_FAH16to70
2061	ALL	353501.5	3793285	9.56E-07	6.5YrCancerDerived_Inh_FAH16to70
347	ALL	353898.1	3792768	9.54E-07	6.5YrCancerDerived_Inh_FAH16to70
1040	ALL	354423.1	3793368	9.54E-07	6.5YrCancerDerived_Inh_FAH16to70
2345	ALL	353426.5	3793465	9.53E-07	6.5YrCancerDerived_Inh_FAH16to70
666	ALL	354123.1	3793018	9.53E-07	6.5YrCancerDerived_Inh_FAH16to70
2233	ALL	353471.5	3793390	9.52E-07	6.5YrCancerDerived_Inh_FAH16to70
2402	ALL	353411.5	3793510	9.51E-07	6.5YrCancerDerived_Inh_FAH16to70

765	ALL	354223.1	3793093	9.51E-07	6.5YrCancerDerived_Inh_FAH16to70
2135	ALL	353486.5	3793330	9.49E-07	6.5YrCancerDerived_Inh_FAH16to70
2280	ALL	353456.5	3793420	9.49E-07	6.5YrCancerDerived_Inh_FAH16to70
2457	ALL	353396.5	3793555	9.48E-07	6.5YrCancerDerived_Inh_FAH16to70
601	ALL	354048.1	3792968	9.47E-07	6.5YrCancerDerived_Inh_FAH16to70
1679	ALL	353565.5	3793010	9.46E-07	6.5YrCancerDerived_Inh_FAH16to70
798	ALL	354248.1	3793118	9.46E-07	6.5YrCancerDerived_Inh_FAH16to70
1826	ALL	353540.5	3793135	9.45E-07	6.5YrCancerDerived_Inh_FAH16to70
2036	ALL	353501.5	3793270	9.44E-07	6.5YrCancerDerived_Inh_FAH16to70
831	ALL	354273.1	3793143	9.43E-07	6.5YrCancerDerived_Inh_FAH16to70
1915	ALL	353515.5	3793210	9.42E-07	6.5YrCancerDerived_Inh_FAH16to70
410	ALL	353923.1	3792818	9.42E-07	6.5YrCancerDerived_Inh_FAH16to70
473	ALL	353948.1	3792868	9.42E-07	6.5YrCancerDerived_Inh_FAH16to70
2383	ALL	353411.5	3793495	9.40E-07	6.5YrCancerDerived_Inh_FAH16to70
2209	ALL	353471.5	3793375	9.39E-07	6.5YrCancerDerived_Inh_FAH16to70
634	ALL	354098.1	3792993	9.38E-07	6.5YrCancerDerived_Inh_FAH16to70
864	ALL	354298.1	3793168	9.37E-07	6.5YrCancerDerived_Inh_FAH16to70
2110	ALL	353486.5	3793315	9.37E-07	6.5YrCancerDerived_Inh_FAH16to70
1796	ALL	353540.5	3793110	9.37E-07	6.5YrCancerDerived_Inh_FAH16to70
1535	ALL	353590.5	3792885	9.36E-07	6.5YrCancerDerived_Inh_FAH16to70
2302	ALL	353441.5	3793435	9.35E-07	6.5YrCancerDerived_Inh_FAH16to70
897	ALL	354323.1	3793193	9.35E-07	6.5YrCancerDerived_Inh_FAH16to70
2439	ALL	353396.5	3793540	9.34E-07	6.5YrCancerDerived_Inh_FAH16to70
569	ALL	354023.1	3792943	9.34E-07	6.5YrCancerDerived_Inh_FAH16to70
2023	ALL	353501.5	3793255	9.32E-07	6.5YrCancerDerived_Inh_FAH16to70
2489	ALL	353381.5	3793585	9.31E-07	6.5YrCancerDerived_Inh_FAH16to70
2364	ALL	353411.5	3793480	9.30E-07	6.5YrCancerDerived_Inh_FAH16to70
929	ALL	354348.1	3793218	9.30E-07	6.5YrCancerDerived_Inh_FAH16to70
732	ALL	354198.1	3793068	9.29E-07	6.5YrCancerDerived_Inh_FAH16to70
158	ALL	353823.1	3792618	9.29E-07	6.5YrCancerDerived_Inh_FAH16to70
505	ALL	353973.1	3792893	9.28E-07	6.5YrCancerDerived_Inh_FAH16to70
1420	ALL	353615.5	3792785	9.28E-07	6.5YrCancerDerived_Inh_FAH16to70
537	ALL	353998.1	3792918	9.27E-07	6.5YrCancerDerived_Inh_FAH16to70
985	ALL	354398.1	3793293	9.27E-07	6.5YrCancerDerived_Inh_FAH16to70
2184	ALL	353471.5	3793360	9.27E-07	6.5YrCancerDerived_Inh_FAH16to70
1650	ALL	353565.5	3792985	9.24E-07	6.5YrCancerDerived_Inh_FAH16to70
1024	ALL	354423.1	3793343	9.24E-07	6.5YrCancerDerived_Inh_FAH16to70
2085	ALL	353486.5	3793300	9.24E-07	6.5YrCancerDerived_Inh_FAH16to70
2256	ALL	353456.5	3793405	9.23E-07	6.5YrCancerDerived_Inh_FAH16to70
253	ALL	353873.1	3792693	9.23E-07	6.5YrCancerDerived_Inh_FAH16to70
1766	ALL	353540.5	3793085	9.23E-07	6.5YrCancerDerived_Inh_FAH16to70
2323	ALL	353426.5	3793450	9.22E-07	6.5YrCancerDerived_Inh_FAH16to70
1334	ALL	353640.5	3792710	9.21E-07	6.5YrCancerDerived_Inh_FAH16to70
2420	ALL	353396.5	3793525	9.21E-07	6.5YrCancerDerived_Inh_FAH16to70
699	ALL	354173.1	3793043	9.19E-07	6.5YrCancerDerived_Inh_FAH16to70
1885	ALL	353515.5	3793185	9.19E-07	6.5YrCancerDerived_Inh_FAH16to70
1277	ALL	353665.5	3792660	9.19E-07	6.5YrCancerDerived_Inh_FAH16to70

2473	ALL	353381.5	3793570	9.18E-07	6.5YrCancerDerived_Inh_FAH16to70
2159	ALL	353471.5	3793345	9.15E-07	6.5YrCancerDerived_Inh_FAH16to70
2279	ALL	353441.5	3793420	9.13E-07	6.5YrCancerDerived_Inh_FAH16to70
946	ALL	354373.1	3793243	9.13E-07	6.5YrCancerDerived_Inh_FAH16to70
2344	ALL	353411.5	3793465	9.13E-07	6.5YrCancerDerived_Inh_FAH16to70
602	ALL	354073.1	3792968	9.12E-07	6.5YrCancerDerived_Inh_FAH16to70
2060	ALL	353486.5	3793285	9.10E-07	6.5YrCancerDerived_Inh_FAH16to70
667	ALL	354148.1	3793018	9.09E-07	6.5YrCancerDerived_Inh_FAH16to70
2401	ALL	353396.5	3793510	9.09E-07	6.5YrCancerDerived_Inh_FAH16to70
2232	ALL	353456.5	3793390	9.08E-07	6.5YrCancerDerived_Inh_FAH16to70
1506	ALL	353590.5	3792860	9.08E-07	6.5YrCancerDerived_Inh_FAH16to70
2456	ALL	353381.5	3793555	9.06E-07	6.5YrCancerDerived_Inh_FAH16to70
316	ALL	353898.1	3792743	9.06E-07	6.5YrCancerDerived_Inh_FAH16to70
442	ALL	353948.1	3792843	9.06E-07	6.5YrCancerDerived_Inh_FAH16to70
190	ALL	353848.1	3792643	9.03E-07	6.5YrCancerDerived_Inh_FAH16to70
2134	ALL	353471.5	3793330	9.03E-07	6.5YrCancerDerived_Inh_FAH16to70
1621	ALL	353565.5	3792960	9.03E-07	6.5YrCancerDerived_Inh_FAH16to70
1736	ALL	353540.5	3793060	9.03E-07	6.5YrCancerDerived_Inh_FAH16to70
635	ALL	354123.1	3792993	9.02E-07	6.5YrCancerDerived_Inh_FAH16to70
1072	ALL	354448.1	3793418	9.00E-07	6.5YrCancerDerived_Inh_FAH16to70
379	ALL	353923.1	3792793	8.99E-07	6.5YrCancerDerived_Inh_FAH16to70
2035	ALL	353486.5	3793270	8.99E-07	6.5YrCancerDerived_Inh_FAH16to70
570	ALL	354048.1	3792943	8.99E-07	6.5YrCancerDerived_Inh_FAH16to70
2382	ALL	353396.5	3793495	8.98E-07	6.5YrCancerDerived_Inh_FAH16to70
766	ALL	354248.1	3793093	8.98E-07	6.5YrCancerDerived_Inh_FAH16to70
1855	ALL	353515.5	3793160	8.95E-07	6.5YrCancerDerived_Inh_FAH16to70
2208	ALL	353456.5	3793375	8.95E-07	6.5YrCancerDerived_Inh_FAH16to70
2301	ALL	353426.5	3793435	8.94E-07	6.5YrCancerDerived_Inh_FAH16to70
2438	ALL	353381.5	3793540	8.94E-07	6.5YrCancerDerived_Inh_FAH16to70
1005	ALL	354423.1	3793318	8.93E-07	6.5YrCancerDerived_Inh_FAH16to70
126	ALL	353798.1	3792593	8.93E-07	6.5YrCancerDerived_Inh_FAH16to70
2109	ALL	353471.5	3793315	8.92E-07	6.5YrCancerDerived_Inh_FAH16to70
2255	ALL	353441.5	3793405	8.91E-07	6.5YrCancerDerived_Inh_FAH16to70
474	ALL	353973.1	3792868	8.90E-07	6.5YrCancerDerived_Inh_FAH16to70
538	ALL	354023.1	3792918	8.90E-07	6.5YrCancerDerived_Inh_FAH16to70
2363	ALL	353396.5	3793480	8.90E-07	6.5YrCancerDerived_Inh_FAH16to70
799	ALL	354273.1	3793118	8.89E-07	6.5YrCancerDerived_Inh_FAH16to70
2488	ALL	353366.5	3793585	8.87E-07	6.5YrCancerDerived_Inh_FAH16to70
2022	ALL	353486.5	3793255	8.87E-07	6.5YrCancerDerived_Inh_FAH16to70
966	ALL	354398.1	3793268	8.87E-07	6.5YrCancerDerived_Inh_FAH16to70
506	ALL	353998.1	3792893	8.87E-07	6.5YrCancerDerived_Inh_FAH16to70
1057	ALL	354448.1	3793393	8.86E-07	6.5YrCancerDerived_Inh_FAH16to70
1391	ALL	353615.5	3792760	8.86E-07	6.5YrCancerDerived_Inh_FAH16to70
865	ALL	354323.1	3793168	8.83E-07	6.5YrCancerDerived_Inh_FAH16to70
733	ALL	354223.1	3793068	8.83E-07	6.5YrCancerDerived_Inh_FAH16to70
832	ALL	354298.1	3793143	8.83E-07	6.5YrCancerDerived_Inh_FAH16to70
2183	ALL	353456.5	3793360	8.83E-07	6.5YrCancerDerived_Inh_FAH16to70

2322	ALL	353411.5	3793450	8.82E-07	6.5YrCancerDerived_Inh_FAH16to70
1707	ALL	353540.5	3793035	8.82E-07	6.5YrCancerDerived_Inh_FAH16to70
1592	ALL	353565.5	3792935	8.81E-07	6.5YrCancerDerived_Inh_FAH16to70
2419	ALL	353381.5	3793525	8.81E-07	6.5YrCancerDerived_Inh_FAH16to70
2084	ALL	353471.5	3793300	8.80E-07	6.5YrCancerDerived_Inh_FAH16to70
898	ALL	354348.1	3793193	8.80E-07	6.5YrCancerDerived_Inh_FAH16to70
603	ALL	354098.1	3792968	8.78E-07	6.5YrCancerDerived_Inh_FAH16to70
1477	ALL	353590.5	3792835	8.77E-07	6.5YrCancerDerived_Inh_FAH16to70
2278	ALL	353426.5	3793420	8.75E-07	6.5YrCancerDerived_Inh_FAH16to70
700	ALL	354198.1	3793043	8.74E-07	6.5YrCancerDerived_Inh_FAH16to70
1825	ALL	353515.5	3793135	8.74E-07	6.5YrCancerDerived_Inh_FAH16to70
2343	ALL	353396.5	3793465	8.74E-07	6.5YrCancerDerived_Inh_FAH16to70
411	ALL	353948.1	3792818	8.73E-07	6.5YrCancerDerived_Inh_FAH16to70
1041	ALL	354448.1	3793368	8.72E-07	6.5YrCancerDerived_Inh_FAH16to70
2158	ALL	353456.5	3793345	8.71E-07	6.5YrCancerDerived_Inh_FAH16to70
668	ALL	354173.1	3793018	8.71E-07	6.5YrCancerDerived_Inh_FAH16to70
2472	ALL	353366.5	3793570	8.71E-07	6.5YrCancerDerived_Inh_FAH16to70
2231	ALL	353441.5	3793390	8.70E-07	6.5YrCancerDerived_Inh_FAH16to70
2400	ALL	353381.5	3793510	8.70E-07	6.5YrCancerDerived_Inh_FAH16to70
348	ALL	353923.1	3792768	8.69E-07	6.5YrCancerDerived_Inh_FAH16to70
2059	ALL	353471.5	3793285	8.69E-07	6.5YrCancerDerived_Inh_FAH16to70
930	ALL	354373.1	3793218	8.68E-07	6.5YrCancerDerived_Inh_FAH16to70
1914	ALL	353490.5	3793210	8.67E-07	6.5YrCancerDerived_Inh_FAH16to70
571	ALL	354073.1	3792943	8.66E-07	6.5YrCancerDerived_Inh_FAH16to70
285	ALL	353898.1	3792718	8.64E-07	6.5YrCancerDerived_Inh_FAH16to70
1678	ALL	353540.5	3793010	8.62E-07	6.5YrCancerDerived_Inh_FAH16to70
222	ALL	353873.1	3792668	8.62E-07	6.5YrCancerDerived_Inh_FAH16to70
986	ALL	354423.1	3793293	8.61E-07	6.5YrCancerDerived_Inh_FAH16to70
2455	ALL	353366.5	3793555	8.61E-07	6.5YrCancerDerived_Inh_FAH16to70
2381	ALL	353381.5	3793495	8.61E-07	6.5YrCancerDerived_Inh_FAH16to70
2133	ALL	353456.5	3793330	8.60E-07	6.5YrCancerDerived_Inh_FAH16to70
1563	ALL	353565.5	3792910	8.60E-07	6.5YrCancerDerived_Inh_FAH16to70
636	ALL	354148.1	3792993	8.59E-07	6.5YrCancerDerived_Inh_FAH16to70
2034	ALL	353471.5	3793270	8.57E-07	6.5YrCancerDerived_Inh_FAH16to70
539	ALL	354048.1	3792918	8.57E-07	6.5YrCancerDerived_Inh_FAH16to70
2300	ALL	353411.5	3793435	8.56E-07	6.5YrCancerDerived_Inh_FAH16to70
2254	ALL	353426.5	3793405	8.55E-07	6.5YrCancerDerived_Inh_FAH16to70
2207	ALL	353441.5	3793375	8.55E-07	6.5YrCancerDerived_Inh_FAH16to70
443	ALL	353973.1	3792843	8.54E-07	6.5YrCancerDerived_Inh_FAH16to70
1025	ALL	354448.1	3793343	8.52E-07	6.5YrCancerDerived_Inh_FAH16to70
2437	ALL	353366.5	3793540	8.52E-07	6.5YrCancerDerived_Inh_FAH16to70
604	ALL	354123.1	3792968	8.52E-07	6.5YrCancerDerived_Inh_FAH16to70
2362	ALL	353381.5	3793480	8.52E-07	6.5YrCancerDerived_Inh_FAH16to70
507	ALL	354023.1	3792893	8.50E-07	6.5YrCancerDerived_Inh_FAH16to70
2108	ALL	353456.5	3793315	8.50E-07	6.5YrCancerDerived_Inh_FAH16to70
1795	ALL	353515.5	3793110	8.49E-07	6.5YrCancerDerived_Inh_FAH16to70
475	ALL	353998.1	3792868	8.48E-07	6.5YrCancerDerived_Inh_FAH16to70

1884	ALL	353490.5	3793185	8.48E-07	6.5YrCancerDerived_Inh_FAH16to70
1305	ALL	353640.5	3792685	8.48E-07	6.5YrCancerDerived_Inh_FAH16to70
947	ALL	354398.1	3793243	8.48E-07	6.5YrCancerDerived_Inh_FAH16to70
2021	ALL	353471.5	3793255	8.46E-07	6.5YrCancerDerived_Inh_FAH16to70
767	ALL	354273.1	3793093	8.46E-07	6.5YrCancerDerived_Inh_FAH16to70
2321	ALL	353396.5	3793450	8.45E-07	6.5YrCancerDerived_Inh_FAH16to70
1448	ALL	353590.5	3792810	8.45E-07	6.5YrCancerDerived_Inh_FAH16to70
2418	ALL	353366.5	3793525	8.43E-07	6.5YrCancerDerived_Inh_FAH16to70
2182	ALL	353441.5	3793360	8.43E-07	6.5YrCancerDerived_Inh_FAH16to70
1649	ALL	353540.5	3792985	8.40E-07	6.5YrCancerDerived_Inh_FAH16to70
2083	ALL	353456.5	3793300	8.40E-07	6.5YrCancerDerived_Inh_FAH16to70
1362	ALL	353615.5	3792735	8.39E-07	6.5YrCancerDerived_Inh_FAH16to70
2342	ALL	353381.5	3793465	8.38E-07	6.5YrCancerDerived_Inh_FAH16to70
2277	ALL	353411.5	3793420	8.38E-07	6.5YrCancerDerived_Inh_FAH16to70
734	ALL	354248.1	3793068	8.37E-07	6.5YrCancerDerived_Inh_FAH16to70
1765	ALL	353515.5	3793085	8.37E-07	6.5YrCancerDerived_Inh_FAH16to70
833	ALL	354323.1	3793143	8.36E-07	6.5YrCancerDerived_Inh_FAH16to70
380	ALL	353948.1	3792793	8.36E-07	6.5YrCancerDerived_Inh_FAH16to70
1534	ALL	353565.5	3792885	8.35E-07	6.5YrCancerDerived_Inh_FAH16to70
800	ALL	354298.1	3793118	8.35E-07	6.5YrCancerDerived_Inh_FAH16to70
572	ALL	354098.1	3792943	8.34E-07	6.5YrCancerDerived_Inh_FAH16to70
2399	ALL	353366.5	3793510	8.34E-07	6.5YrCancerDerived_Inh_FAH16to70
866	ALL	354348.1	3793168	8.33E-07	6.5YrCancerDerived_Inh_FAH16to70
2230	ALL	353426.5	3793390	8.33E-07	6.5YrCancerDerived_Inh_FAH16to70
2157	ALL	353441.5	3793345	8.31E-07	6.5YrCancerDerived_Inh_FAH16to70
701	ALL	354223.1	3793043	8.31E-07	6.5YrCancerDerived_Inh_FAH16to70
669	ALL	354198.1	3793018	8.30E-07	6.5YrCancerDerived_Inh_FAH16to70
2058	ALL	353456.5	3793285	8.30E-07	6.5YrCancerDerived_Inh_FAH16to70
1006	ALL	354448.1	3793318	8.29E-07	6.5YrCancerDerived_Inh_FAH16to70
1854	ALL	353490.5	3793160	8.29E-07	6.5YrCancerDerived_Inh_FAH16to70
1735	ALL	353515.5	3793060	8.28E-07	6.5YrCancerDerived_Inh_FAH16to70
637	ALL	354173.1	3792993	8.28E-07	6.5YrCancerDerived_Inh_FAH16to70
2380	ALL	353366.5	3793495	8.26E-07	6.5YrCancerDerived_Inh_FAH16to70
967	ALL	354423.1	3793268	8.26E-07	6.5YrCancerDerived_Inh_FAH16to70
540	ALL	354073.1	3792918	8.26E-07	6.5YrCancerDerived_Inh_FAH16to70
899	ALL	354373.1	3793193	8.25E-07	6.5YrCancerDerived_Inh_FAH16to70
317	ALL	353923.1	3792743	8.24E-07	6.5YrCancerDerived_Inh_FAH16to70
1220	ALL	353690.5	3792610	8.21E-07	6.5YrCancerDerived_Inh_FAH16to70
2132	ALL	353441.5	3793330	8.21E-07	6.5YrCancerDerived_Inh_FAH16to70
254	ALL	353898.1	3792693	8.21E-07	6.5YrCancerDerived_Inh_FAH16to70
2299	ALL	353396.5	3793435	8.20E-07	6.5YrCancerDerived_Inh_FAH16to70
508	ALL	354048.1	3792893	8.20E-07	6.5YrCancerDerived_Inh_FAH16to70
2253	ALL	353411.5	3793405	8.19E-07	6.5YrCancerDerived_Inh_FAH16to70
2033	ALL	353456.5	3793270	8.19E-07	6.5YrCancerDerived_Inh_FAH16to70
412	ALL	353973.1	3792818	8.19E-07	6.5YrCancerDerived_Inh_FAH16to70
1620	ALL	353540.5	3792960	8.19E-07	6.5YrCancerDerived_Inh_FAH16to70
2206	ALL	353426.5	3793375	8.17E-07	6.5YrCancerDerived_Inh_FAH16to70

2361	ALL	353366.5	3793480	8.16E-07	6.5YrCancerDerived_Inh_FAH16to70
2320	ALL	353381.5	3793450	8.14E-07	6.5YrCancerDerived_Inh_FAH16to70
476	ALL	354023.1	3792868	8.13E-07	6.5YrCancerDerived_Inh_FAH16to70
1073	ALL	354473.1	3793418	8.12E-07	6.5YrCancerDerived_Inh_FAH16to70
605	ALL	354148.1	3792968	8.12E-07	6.5YrCancerDerived_Inh_FAH16to70
444	ALL	353998.1	3792843	8.11E-07	6.5YrCancerDerived_Inh_FAH16to70
2107	ALL	353441.5	3793315	8.11E-07	6.5YrCancerDerived_Inh_FAH16to70
1419	ALL	353590.5	3792785	8.11E-07	6.5YrCancerDerived_Inh_FAH16to70
1824	ALL	353490.5	3793135	8.11E-07	6.5YrCancerDerived_Inh_FAH16to70
1706	ALL	353515.5	3793035	8.11E-07	6.5YrCancerDerived_Inh_FAH16to70
1505	ALL	353565.5	3792860	8.09E-07	6.5YrCancerDerived_Inh_FAH16to70
931	ALL	354398.1	3793218	8.09E-07	6.5YrCancerDerived_Inh_FAH16to70
2020	ALL	353456.5	3793255	8.08E-07	6.5YrCancerDerived_Inh_FAH16to70
573	ALL	354123.1	3792943	8.08E-07	6.5YrCancerDerived_Inh_FAH16to70
2181	ALL	353426.5	3793360	8.07E-07	6.5YrCancerDerived_Inh_FAH16to70
159	ALL	353848.1	3792618	8.07E-07	6.5YrCancerDerived_Inh_FAH16to70
2341	ALL	353366.5	3793465	8.05E-07	6.5YrCancerDerived_Inh_FAH16to70
349	ALL	353948.1	3792768	8.05E-07	6.5YrCancerDerived_Inh_FAH16to70
1248	ALL	353665.5	3792635	8.04E-07	6.5YrCancerDerived_Inh_FAH16to70
1058	ALL	354473.1	3793393	8.04E-07	6.5YrCancerDerived_Inh_FAH16to70
2276	ALL	353396.5	3793420	8.03E-07	6.5YrCancerDerived_Inh_FAH16to70
2082	ALL	353441.5	3793300	8.03E-07	6.5YrCancerDerived_Inh_FAH16to70
987	ALL	354448.1	3793293	8.03E-07	6.5YrCancerDerived_Inh_FAH16to70
1913	ALL	353465.5	3793210	8.00E-07	6.5YrCancerDerived_Inh_FAH16to70
2156	ALL	353426.5	3793345	7.97E-07	6.5YrCancerDerived_Inh_FAH16to70
2229	ALL	353411.5	3793390	7.97E-07	6.5YrCancerDerived_Inh_FAH16to70
1591	ALL	353540.5	3792935	7.97E-07	6.5YrCancerDerived_Inh_FAH16to70
1192	ALL	353715.5	3792585	7.97E-07	6.5YrCancerDerived_Inh_FAH16to70
541	ALL	354098.1	3792918	7.95E-07	6.5YrCancerDerived_Inh_FAH16to70
2057	ALL	353441.5	3793285	7.94E-07	6.5YrCancerDerived_Inh_FAH16to70
1042	ALL	354473.1	3793368	7.94E-07	6.5YrCancerDerived_Inh_FAH16to70
735	ALL	354273.1	3793068	7.94E-07	6.5YrCancerDerived_Inh_FAH16to70
948	ALL	354423.1	3793243	7.93E-07	6.5YrCancerDerived_Inh_FAH16to70
191	ALL	353873.1	3792643	7.92E-07	6.5YrCancerDerived_Inh_FAH16to70
768	ALL	354298.1	3793093	7.92E-07	6.5YrCancerDerived_Inh_FAH16to70
127	ALL	353823.1	3792593	7.92E-07	6.5YrCancerDerived_Inh_FAH16to70
801	ALL	354323.1	3793118	7.92E-07	6.5YrCancerDerived_Inh_FAH16to70
2298	ALL	353381.5	3793435	7.92E-07	6.5YrCancerDerived_Inh_FAH16to70
834	ALL	354348.1	3793143	7.91E-07	6.5YrCancerDerived_Inh_FAH16to70
670	ALL	354223.1	3793018	7.91E-07	6.5YrCancerDerived_Inh_FAH16to70
1677	ALL	353515.5	3793010	7.91E-07	6.5YrCancerDerived_Inh_FAH16to70
638	ALL	354198.1	3792993	7.90E-07	6.5YrCancerDerived_Inh_FAH16to70
509	ALL	354073.1	3792893	7.89E-07	6.5YrCancerDerived_Inh_FAH16to70
702	ALL	354248.1	3793043	7.89E-07	6.5YrCancerDerived_Inh_FAH16to70
2319	ALL	353366.5	3793450	7.88E-07	6.5YrCancerDerived_Inh_FAH16to70
1794	ALL	353490.5	3793110	7.88E-07	6.5YrCancerDerived_Inh_FAH16to70
2131	ALL	353426.5	3793330	7.87E-07	6.5YrCancerDerived_Inh_FAH16to70

381	ALL	353973.1	3792793	7.87E-07	6.5YrCancerDerived_Inh_FAH16to70
286	ALL	353923.1	3792718	7.85E-07	6.5YrCancerDerived_Inh_FAH16to70
1333	ALL	353615.5	3792710	7.85E-07	6.5YrCancerDerived_Inh_FAH16to70
2252	ALL	353396.5	3793405	7.85E-07	6.5YrCancerDerived_Inh_FAH16to70
94	ALL	353773.1	3792568	7.85E-07	6.5YrCancerDerived_Inh_FAH16to70
867	ALL	354373.1	3793168	7.84E-07	6.5YrCancerDerived_Inh_FAH16to70
2032	ALL	353441.5	3793270	7.84E-07	6.5YrCancerDerived_Inh_FAH16to70
1883	ALL	353465.5	3793185	7.83E-07	6.5YrCancerDerived_Inh_FAH16to70
477	ALL	354048.1	3792868	7.82E-07	6.5YrCancerDerived_Inh_FAH16to70
1476	ALL	353565.5	3792835	7.82E-07	6.5YrCancerDerived_Inh_FAH16to70
2205	ALL	353411.5	3793375	7.82E-07	6.5YrCancerDerived_Inh_FAH16to70
1026	ALL	354473.1	3793343	7.80E-07	6.5YrCancerDerived_Inh_FAH16to70
2106	ALL	353426.5	3793315	7.78E-07	6.5YrCancerDerived_Inh_FAH16to70
413	ALL	353998.1	3792818	7.78E-07	6.5YrCancerDerived_Inh_FAH16to70
445	ALL	354023.1	3792843	7.75E-07	6.5YrCancerDerived_Inh_FAH16to70
606	ALL	354173.1	3792968	7.75E-07	6.5YrCancerDerived_Inh_FAH16to70
1562	ALL	353540.5	3792910	7.75E-07	6.5YrCancerDerived_Inh_FAH16to70
2275	ALL	353381.5	3793420	7.75E-07	6.5YrCancerDerived_Inh_FAH16to70
2180	ALL	353411.5	3793360	7.74E-07	6.5YrCancerDerived_Inh_FAH16to70
2019	ALL	353441.5	3793255	7.74E-07	6.5YrCancerDerived_Inh_FAH16to70
1390	ALL	353590.5	3792760	7.74E-07	6.5YrCancerDerived_Inh_FAH16to70
968	ALL	354448.1	3793268	7.73E-07	6.5YrCancerDerived_Inh_FAH16to70
2297	ALL	353366.5	3793435	7.72E-07	6.5YrCancerDerived_Inh_FAH16to70
900	ALL	354398.1	3793193	7.71E-07	6.5YrCancerDerived_Inh_FAH16to70
223	ALL	353898.1	3792668	7.71E-07	6.5YrCancerDerived_Inh_FAH16to70
2081	ALL	353426.5	3793300	7.70E-07	6.5YrCancerDerived_Inh_FAH16to70
574	ALL	354148.1	3792943	7.69E-07	6.5YrCancerDerived_Inh_FAH16to70
1276	ALL	353640.5	3792660	7.69E-07	6.5YrCancerDerived_Inh_FAH16to70
1648	ALL	353515.5	3792985	7.69E-07	6.5YrCancerDerived_Inh_FAH16to70
1853	ALL	353465.5	3793160	7.68E-07	6.5YrCancerDerived_Inh_FAH16to70
1764	ALL	353490.5	3793085	7.67E-07	6.5YrCancerDerived_Inh_FAH16to70
2155	ALL	353411.5	3793345	7.66E-07	6.5YrCancerDerived_Inh_FAH16to70
542	ALL	354123.1	3792918	7.66E-07	6.5YrCancerDerived_Inh_FAH16to70
2228	ALL	353396.5	3793390	7.64E-07	6.5YrCancerDerived_Inh_FAH16to70
1007	ALL	354473.1	3793318	7.63E-07	6.5YrCancerDerived_Inh_FAH16to70
318	ALL	353948.1	3792743	7.63E-07	6.5YrCancerDerived_Inh_FAH16to70
2056	ALL	353426.5	3793285	7.61E-07	6.5YrCancerDerived_Inh_FAH16to70
932	ALL	354423.1	3793218	7.61E-07	6.5YrCancerDerived_Inh_FAH16to70
510	ALL	354098.1	3792893	7.60E-07	6.5YrCancerDerived_Inh_FAH16to70
2130	ALL	353411.5	3793330	7.58E-07	6.5YrCancerDerived_Inh_FAH16to70
2251	ALL	353381.5	3793405	7.56E-07	6.5YrCancerDerived_Inh_FAH16to70
350	ALL	353973.1	3792768	7.55E-07	6.5YrCancerDerived_Inh_FAH16to70
2274	ALL	353366.5	3793420	7.55E-07	6.5YrCancerDerived_Inh_FAH16to70
639	ALL	354223.1	3792993	7.54E-07	6.5YrCancerDerived_Inh_FAH16to70
1533	ALL	353540.5	3792885	7.54E-07	6.5YrCancerDerived_Inh_FAH16to70
1734	ALL	353490.5	3793060	7.53E-07	6.5YrCancerDerived_Inh_FAH16to70
769	ALL	354323.1	3793093	7.53E-07	6.5YrCancerDerived_Inh_FAH16to70

671	ALL	354248.1	3793018	7.53E-07	6.5YrCancerDerived_Inh_FAH16to70
1447	ALL	353565.5	3792810	7.53E-07	6.5YrCancerDerived_Inh_FAH16to70
1074	ALL	354498.1	3793418	7.53E-07	6.5YrCancerDerived_Inh_FAH16to70
478	ALL	354073.1	3792868	7.53E-07	6.5YrCancerDerived_Inh_FAH16to70
2031	ALL	353426.5	3793270	7.52E-07	6.5YrCancerDerived_Inh_FAH16to70
802	ALL	354348.1	3793118	7.51E-07	6.5YrCancerDerived_Inh_FAH16to70
736	ALL	354298.1	3793068	7.51E-07	6.5YrCancerDerived_Inh_FAH16to70
703	ALL	354273.1	3793043	7.51E-07	6.5YrCancerDerived_Inh_FAH16to70
1823	ALL	353465.5	3793135	7.51E-07	6.5YrCancerDerived_Inh_FAH16to70
2204	ALL	353396.5	3793375	7.50E-07	6.5YrCancerDerived_Inh_FAH16to70
2105	ALL	353411.5	3793315	7.49E-07	6.5YrCancerDerived_Inh_FAH16to70
1619	ALL	353515.5	3792960	7.48E-07	6.5YrCancerDerived_Inh_FAH16to70
382	ALL	353998.1	3792793	7.47E-07	6.5YrCancerDerived_Inh_FAH16to70
255	ALL	353923.1	3792693	7.47E-07	6.5YrCancerDerived_Inh_FAH16to70
1705	ALL	353490.5	3793035	7.46E-07	6.5YrCancerDerived_Inh_FAH16to70
835	ALL	354373.1	3793143	7.46E-07	6.5YrCancerDerived_Inh_FAH16to70
1912	ALL	353440.5	3793210	7.44E-07	6.5YrCancerDerived_Inh_FAH16to70
446	ALL	354048.1	3792843	7.44E-07	6.5YrCancerDerived_Inh_FAH16to70
949	ALL	354448.1	3793243	7.44E-07	6.5YrCancerDerived_Inh_FAH16to70
2018	ALL	353426.5	3793255	7.43E-07	6.5YrCancerDerived_Inh_FAH16to70
414	ALL	354023.1	3792818	7.43E-07	6.5YrCancerDerived_Inh_FAH16to70
2179	ALL	353396.5	3793360	7.43E-07	6.5YrCancerDerived_Inh_FAH16to70
988	ALL	354473.1	3793293	7.42E-07	6.5YrCancerDerived_Inh_FAH16to70
607	ALL	354198.1	3792968	7.41E-07	6.5YrCancerDerived_Inh_FAH16to70
1059	ALL	354498.1	3793393	7.41E-07	6.5YrCancerDerived_Inh_FAH16to70
95	ALL	353798.1	3792568	7.41E-07	6.5YrCancerDerived_Inh_FAH16to70
2080	ALL	353411.5	3793300	7.40E-07	6.5YrCancerDerived_Inh_FAH16to70
575	ALL	354173.1	3792943	7.38E-07	6.5YrCancerDerived_Inh_FAH16to70
1793	ALL	353465.5	3793110	7.37E-07	6.5YrCancerDerived_Inh_FAH16to70
2250	ALL	353366.5	3793405	7.37E-07	6.5YrCancerDerived_Inh_FAH16to70
2154	ALL	353396.5	3793345	7.35E-07	6.5YrCancerDerived_Inh_FAH16to70
2227	ALL	353381.5	3793390	7.35E-07	6.5YrCancerDerived_Inh_FAH16to70
868	ALL	354398.1	3793168	7.35E-07	6.5YrCancerDerived_Inh_FAH16to70
1361	ALL	353590.5	3792735	7.33E-07	6.5YrCancerDerived_Inh_FAH16to70
543	ALL	354148.1	3792918	7.32E-07	6.5YrCancerDerived_Inh_FAH16to70
2055	ALL	353411.5	3793285	7.32E-07	6.5YrCancerDerived_Inh_FAH16to70
1504	ALL	353540.5	3792860	7.31E-07	6.5YrCancerDerived_Inh_FAH16to70
1882	ALL	353440.5	3793185	7.30E-07	6.5YrCancerDerived_Inh_FAH16to70
1676	ALL	353490.5	3793010	7.29E-07	6.5YrCancerDerived_Inh_FAH16to70
1043	ALL	354498.1	3793368	7.29E-07	6.5YrCancerDerived_Inh_FAH16to70
511	ALL	354123.1	3792893	7.29E-07	6.5YrCancerDerived_Inh_FAH16to70
1304	ALL	353615.5	3792685	7.28E-07	6.5YrCancerDerived_Inh_FAH16to70
901	ALL	354423.1	3793193	7.28E-07	6.5YrCancerDerived_Inh_FAH16to70
287	ALL	353948.1	3792718	7.28E-07	6.5YrCancerDerived_Inh_FAH16to70
1590	ALL	353515.5	3792935	7.27E-07	6.5YrCancerDerived_Inh_FAH16to70
2129	ALL	353396.5	3793330	7.27E-07	6.5YrCancerDerived_Inh_FAH16to70
479	ALL	354098.1	3792868	7.24E-07	6.5YrCancerDerived_Inh_FAH16to70

2030	ALL	353411.5	3793270	7.23E-07	6.5YrCancerDerived_Inh_FAH16to70
160	ALL	353873.1	3792618	7.23E-07	6.5YrCancerDerived_Inh_FAH16to70
1418	ALL	353565.5	3792785	7.22E-07	6.5YrCancerDerived_Inh_FAH16to70
2203	ALL	353381.5	3793375	7.21E-07	6.5YrCancerDerived_Inh_FAH16to70
640	ALL	354248.1	3792993	7.20E-07	6.5YrCancerDerived_Inh_FAH16to70
2104	ALL	353396.5	3793315	7.18E-07	6.5YrCancerDerived_Inh_FAH16to70
969	ALL	354473.1	3793268	7.18E-07	6.5YrCancerDerived_Inh_FAH16to70
1027	ALL	354498.1	3793343	7.18E-07	6.5YrCancerDerived_Inh_FAH16to70
672	ALL	354273.1	3793018	7.17E-07	6.5YrCancerDerived_Inh_FAH16to70
447	ALL	354073.1	3792843	7.16E-07	6.5YrCancerDerived_Inh_FAH16to70
770	ALL	354348.1	3793093	7.16E-07	6.5YrCancerDerived_Inh_FAH16to70
319	ALL	353973.1	3792743	7.16E-07	6.5YrCancerDerived_Inh_FAH16to70
192	ALL	353898.1	3792643	7.16E-07	6.5YrCancerDerived_Inh_FAH16to70
737	ALL	354323.1	3793068	7.16E-07	6.5YrCancerDerived_Inh_FAH16to70
2226	ALL	353366.5	3793390	7.16E-07	6.5YrCancerDerived_Inh_FAH16to70
128	ALL	353848.1	3792593	7.15E-07	6.5YrCancerDerived_Inh_FAH16to70
351	ALL	353998.1	3792768	7.15E-07	6.5YrCancerDerived_Inh_FAH16to70
2017	ALL	353411.5	3793255	7.15E-07	6.5YrCancerDerived_Inh_FAH16to70
1852	ALL	353440.5	3793160	7.14E-07	6.5YrCancerDerived_Inh_FAH16to70
704	ALL	354298.1	3793043	7.14E-07	6.5YrCancerDerived_Inh_FAH16to70
383	ALL	354023.1	3792793	7.14E-07	6.5YrCancerDerived_Inh_FAH16to70
1763	ALL	353465.5	3793085	7.13E-07	6.5YrCancerDerived_Inh_FAH16to70
415	ALL	354048.1	3792818	7.13E-07	6.5YrCancerDerived_Inh_FAH16to70
2178	ALL	353381.5	3793360	7.12E-07	6.5YrCancerDerived_Inh_FAH16to70
933	ALL	354448.1	3793218	7.12E-07	6.5YrCancerDerived_Inh_FAH16to70
1075	ALL	354523.1	3793418	7.12E-07	6.5YrCancerDerived_Inh_FAH16to70
803	ALL	354373.1	3793118	7.11E-07	6.5YrCancerDerived_Inh_FAH16to70
2079	ALL	353396.5	3793300	7.10E-07	6.5YrCancerDerived_Inh_FAH16to70
608	ALL	354223.1	3792968	7.08E-07	6.5YrCancerDerived_Inh_FAH16to70
1647	ALL	353490.5	3792985	7.07E-07	6.5YrCancerDerived_Inh_FAH16to70
544	ALL	354173.1	3792918	7.06E-07	6.5YrCancerDerived_Inh_FAH16to70
1561	ALL	353515.5	3792910	7.06E-07	6.5YrCancerDerived_Inh_FAH16to70
576	ALL	354198.1	3792943	7.06E-07	6.5YrCancerDerived_Inh_FAH16to70
1475	ALL	353540.5	3792835	7.06E-07	6.5YrCancerDerived_Inh_FAH16to70
224	ALL	353923.1	3792668	7.05E-07	6.5YrCancerDerived_Inh_FAH16to70
2153	ALL	353381.5	3793345	7.05E-07	6.5YrCancerDerived_Inh_FAH16to70
1219	ALL	353665.5	3792610	7.04E-07	6.5YrCancerDerived_Inh_FAH16to70
1008	ALL	354498.1	3793318	7.04E-07	6.5YrCancerDerived_Inh_FAH16to70
2054	ALL	353396.5	3793285	7.02E-07	6.5YrCancerDerived_Inh_FAH16to70
836	ALL	354398.1	3793143	7.01E-07	6.5YrCancerDerived_Inh_FAH16to70
512	ALL	354148.1	3792893	6.98E-07	6.5YrCancerDerived_Inh_FAH16to70
1191	ALL	353690.5	3792585	6.98E-07	6.5YrCancerDerived_Inh_FAH16to70
1822	ALL	353440.5	3793135	6.98E-07	6.5YrCancerDerived_Inh_FAH16to70
2128	ALL	353381.5	3793330	6.97E-07	6.5YrCancerDerived_Inh_FAH16to70
480	ALL	354123.1	3792868	6.96E-07	6.5YrCancerDerived_Inh_FAH16to70
869	ALL	354423.1	3793168	6.96E-07	6.5YrCancerDerived_Inh_FAH16to70
2202	ALL	353366.5	3793375	6.95E-07	6.5YrCancerDerived_Inh_FAH16to70

2029	ALL	353396.5	3793270	6.94E-07	6.5YrCancerDerived_Inh_FAH16to70
1911	ALL	353415.5	3793210	6.94E-07	6.5YrCancerDerived_Inh_FAH16to70
1733	ALL	353465.5	3793060	6.94E-07	6.5YrCancerDerived_Inh_FAH16to70
950	ALL	354473.1	3793243	6.93E-07	6.5YrCancerDerived_Inh_FAH16to70
256	ALL	353948.1	3792693	6.93E-07	6.5YrCancerDerived_Inh_FAH16to70
1247	ALL	353640.5	3792635	6.92E-07	6.5YrCancerDerived_Inh_FAH16to70
1060	ALL	354523.1	3793393	6.90E-07	6.5YrCancerDerived_Inh_FAH16to70
448	ALL	354098.1	3792843	6.90E-07	6.5YrCancerDerived_Inh_FAH16to70
2103	ALL	353381.5	3793315	6.89E-07	6.5YrCancerDerived_Inh_FAH16to70
1332	ALL	353590.5	3792710	6.89E-07	6.5YrCancerDerived_Inh_FAH16to70
1389	ALL	353565.5	3792760	6.89E-07	6.5YrCancerDerived_Inh_FAH16to70
1792	ALL	353440.5	3793110	6.88E-07	6.5YrCancerDerived_Inh_FAH16to70
989	ALL	354498.1	3793293	6.88E-07	6.5YrCancerDerived_Inh_FAH16to70
641	ALL	354273.1	3792993	6.87E-07	6.5YrCancerDerived_Inh_FAH16to70
1618	ALL	353490.5	3792960	6.87E-07	6.5YrCancerDerived_Inh_FAH16to70
2016	ALL	353396.5	3793255	6.86E-07	6.5YrCancerDerived_Inh_FAH16to70
1532	ALL	353515.5	3792885	6.86E-07	6.5YrCancerDerived_Inh_FAH16to70
96	ALL	353823.1	3792568	6.85E-07	6.5YrCancerDerived_Inh_FAH16to70
416	ALL	354073.1	3792818	6.85E-07	6.5YrCancerDerived_Inh_FAH16to70
2177	ALL	353366.5	3793360	6.84E-07	6.5YrCancerDerived_Inh_FAH16to70
1704	ALL	353465.5	3793035	6.84E-07	6.5YrCancerDerived_Inh_FAH16to70
384	ALL	354048.1	3792793	6.83E-07	6.5YrCancerDerived_Inh_FAH16to70
288	ALL	353973.1	3792718	6.83E-07	6.5YrCancerDerived_Inh_FAH16to70
673	ALL	354298.1	3793018	6.83E-07	6.5YrCancerDerived_Inh_FAH16to70
738	ALL	354348.1	3793068	6.82E-07	6.5YrCancerDerived_Inh_FAH16to70
902	ALL	354448.1	3793193	6.82E-07	6.5YrCancerDerived_Inh_FAH16to70
2078	ALL	353381.5	3793300	6.81E-07	6.5YrCancerDerived_Inh_FAH16to70
1881	ALL	353415.5	3793185	6.81E-07	6.5YrCancerDerived_Inh_FAH16to70
705	ALL	354323.1	3793043	6.81E-07	6.5YrCancerDerived_Inh_FAH16to70
1044	ALL	354523.1	3793368	6.81E-07	6.5YrCancerDerived_Inh_FAH16to70
352	ALL	354023.1	3792768	6.80E-07	6.5YrCancerDerived_Inh_FAH16to70
1446	ALL	353540.5	3792810	6.80E-07	6.5YrCancerDerived_Inh_FAH16to70
320	ALL	353998.1	3792743	6.79E-07	6.5YrCancerDerived_Inh_FAH16to70
609	ALL	354248.1	3792968	6.78E-07	6.5YrCancerDerived_Inh_FAH16to70
771	ALL	354373.1	3793093	6.78E-07	6.5YrCancerDerived_Inh_FAH16to70
513	ALL	354173.1	3792893	6.77E-07	6.5YrCancerDerived_Inh_FAH16to70
545	ALL	354198.1	3792918	6.77E-07	6.5YrCancerDerived_Inh_FAH16to70
577	ALL	354223.1	3792943	6.76E-07	6.5YrCancerDerived_Inh_FAH16to70
2152	ALL	353366.5	3793345	6.75E-07	6.5YrCancerDerived_Inh_FAH16to70
1076	ALL	354548.1	3793418	6.74E-07	6.5YrCancerDerived_Inh_FAH16to70
2053	ALL	353381.5	3793285	6.74E-07	6.5YrCancerDerived_Inh_FAH16to70
1675	ALL	353465.5	3793010	6.72E-07	6.5YrCancerDerived_Inh_FAH16to70
1762	ALL	353440.5	3793085	6.71E-07	6.5YrCancerDerived_Inh_FAH16to70
1028	ALL	354523.1	3793343	6.71E-07	6.5YrCancerDerived_Inh_FAH16to70
1275	ALL	353615.5	3792660	6.70E-07	6.5YrCancerDerived_Inh_FAH16to70
970	ALL	354498.1	3793268	6.69E-07	6.5YrCancerDerived_Inh_FAH16to70
804	ALL	354398.1	3793118	6.69E-07	6.5YrCancerDerived_Inh_FAH16to70

1589	ALL	353490.5	3792935	6.68E-07	6.5YrCancerDerived_Inh_FAH16to70
481	ALL	354148.1	3792868	6.68E-07	6.5YrCancerDerived_Inh_FAH16to70
2127	ALL	353366.5	3793330	6.67E-07	6.5YrCancerDerived_Inh_FAH16to70
1163	ALL	353715.5	3792560	6.67E-07	6.5YrCancerDerived_Inh_FAH16to70
1851	ALL	353415.5	3793160	6.66E-07	6.5YrCancerDerived_Inh_FAH16to70
2028	ALL	353381.5	3793270	6.66E-07	6.5YrCancerDerived_Inh_FAH16to70
837	ALL	354423.1	3793143	6.66E-07	6.5YrCancerDerived_Inh_FAH16to70
934	ALL	354473.1	3793218	6.66E-07	6.5YrCancerDerived_Inh_FAH16to70
449	ALL	354123.1	3792843	6.65E-07	6.5YrCancerDerived_Inh_FAH16to70
1503	ALL	353515.5	3792860	6.65E-07	6.5YrCancerDerived_Inh_FAH16to70
161	ALL	353898.1	3792618	6.62E-07	6.5YrCancerDerived_Inh_FAH16to70
193	ALL	353923.1	3792643	6.60E-07	6.5YrCancerDerived_Inh_FAH16to70
417	ALL	354098.1	3792818	6.60E-07	6.5YrCancerDerived_Inh_FAH16to70
2102	ALL	353366.5	3793315	6.60E-07	6.5YrCancerDerived_Inh_FAH16to70
1009	ALL	354523.1	3793318	6.59E-07	6.5YrCancerDerived_Inh_FAH16to70
2015	ALL	353381.5	3793255	6.59E-07	6.5YrCancerDerived_Inh_FAH16to70
63	ALL	353773.1	3792543	6.56E-07	6.5YrCancerDerived_Inh_FAH16to70
129	ALL	353873.1	3792593	6.56E-07	6.5YrCancerDerived_Inh_FAH16to70
225	ALL	353948.1	3792668	6.56E-07	6.5YrCancerDerived_Inh_FAH16to70
642	ALL	354298.1	3792993	6.56E-07	6.5YrCancerDerived_Inh_FAH16to70
385	ALL	354073.1	3792793	6.55E-07	6.5YrCancerDerived_Inh_FAH16to70
1061	ALL	354548.1	3793393	6.54E-07	6.5YrCancerDerived_Inh_FAH16to70
870	ALL	354448.1	3793168	6.54E-07	6.5YrCancerDerived_Inh_FAH16to70
1360	ALL	353565.5	3792735	6.54E-07	6.5YrCancerDerived_Inh_FAH16to70
1646	ALL	353465.5	3792985	6.53E-07	6.5YrCancerDerived_Inh_FAH16to70
257	ALL	353973.1	3792693	6.53E-07	6.5YrCancerDerived_Inh_FAH16to70
2077	ALL	353366.5	3793300	6.52E-07	6.5YrCancerDerived_Inh_FAH16to70
1417	ALL	353540.5	3792785	6.52E-07	6.5YrCancerDerived_Inh_FAH16to70
674	ALL	354323.1	3793018	6.51E-07	6.5YrCancerDerived_Inh_FAH16to70
1821	ALL	353415.5	3793135	6.51E-07	6.5YrCancerDerived_Inh_FAH16to70
353	ALL	354048.1	3792768	6.51E-07	6.5YrCancerDerived_Inh_FAH16to70
514	ALL	354198.1	3792893	6.50E-07	6.5YrCancerDerived_Inh_FAH16to70
706	ALL	354348.1	3793043	6.49E-07	6.5YrCancerDerived_Inh_FAH16to70
1560	ALL	353490.5	3792910	6.49E-07	6.5YrCancerDerived_Inh_FAH16to70
1732	ALL	353440.5	3793060	6.49E-07	6.5YrCancerDerived_Inh_FAH16to70
546	ALL	354223.1	3792918	6.49E-07	6.5YrCancerDerived_Inh_FAH16to70
1910	ALL	353390.5	3793210	6.48E-07	6.5YrCancerDerived_Inh_FAH16to70
482	ALL	354173.1	3792868	6.48E-07	6.5YrCancerDerived_Inh_FAH16to70
289	ALL	353998.1	3792718	6.48E-07	6.5YrCancerDerived_Inh_FAH16to70
610	ALL	354273.1	3792968	6.47E-07	6.5YrCancerDerived_Inh_FAH16to70
951	ALL	354498.1	3793243	6.47E-07	6.5YrCancerDerived_Inh_FAH16to70
321	ALL	354023.1	3792743	6.47E-07	6.5YrCancerDerived_Inh_FAH16to70
578	ALL	354248.1	3792943	6.46E-07	6.5YrCancerDerived_Inh_FAH16to70
739	ALL	354373.1	3793068	6.45E-07	6.5YrCancerDerived_Inh_FAH16to70
990	ALL	354523.1	3793293	6.45E-07	6.5YrCancerDerived_Inh_FAH16to70
1045	ALL	354548.1	3793368	6.45E-07	6.5YrCancerDerived_Inh_FAH16to70
2052	ALL	353366.5	3793285	6.45E-07	6.5YrCancerDerived_Inh_FAH16to70

1303	ALL	353590.5	3792685	6.43E-07	6.5YrCancerDerived_Inh_FAH16to70
1474	ALL	353515.5	3792835	6.43E-07	6.5YrCancerDerived_Inh_FAH16to70
1791	ALL	353415.5	3793110	6.42E-07	6.5YrCancerDerived_Inh_FAH16to70
903	ALL	354473.1	3793193	6.40E-07	6.5YrCancerDerived_Inh_FAH16to70
772	ALL	354398.1	3793093	6.39E-07	6.5YrCancerDerived_Inh_FAH16to70
64	ALL	353798.1	3792543	6.38E-07	6.5YrCancerDerived_Inh_FAH16to70
450	ALL	354148.1	3792843	6.38E-07	6.5YrCancerDerived_Inh_FAH16to70
805	ALL	354423.1	3793118	6.38E-07	6.5YrCancerDerived_Inh_FAH16to70
2027	ALL	353366.5	3793270	6.37E-07	6.5YrCancerDerived_Inh_FAH16to70
418	ALL	354123.1	3792818	6.36E-07	6.5YrCancerDerived_Inh_FAH16to70
1880	ALL	353390.5	3793185	6.36E-07	6.5YrCancerDerived_Inh_FAH16to70
1617	ALL	353465.5	3792960	6.35E-07	6.5YrCancerDerived_Inh_FAH16to70
97	ALL	353848.1	3792568	6.35E-07	6.5YrCancerDerived_Inh_FAH16to70
1029	ALL	354548.1	3793343	6.33E-07	6.5YrCancerDerived_Inh_FAH16to70
386	ALL	354098.1	3792793	6.31E-07	6.5YrCancerDerived_Inh_FAH16to70
1761	ALL	353415.5	3793085	6.30E-07	6.5YrCancerDerived_Inh_FAH16to70
2014	ALL	353366.5	3793255	6.30E-07	6.5YrCancerDerived_Inh_FAH16to70
1703	ALL	353440.5	3793035	6.30E-07	6.5YrCancerDerived_Inh_FAH16to70
1531	ALL	353490.5	3792885	6.29E-07	6.5YrCancerDerived_Inh_FAH16to70
838	ALL	354448.1	3793143	6.28E-07	6.5YrCancerDerived_Inh_FAH16to70
971	ALL	354523.1	3793268	6.28E-07	6.5YrCancerDerived_Inh_FAH16to70
643	ALL	354323.1	3792993	6.26E-07	6.5YrCancerDerived_Inh_FAH16to70
935	ALL	354498.1	3793218	6.26E-07	6.5YrCancerDerived_Inh_FAH16to70
354	ALL	354073.1	3792768	6.24E-07	6.5YrCancerDerived_Inh_FAH16to70
1850	ALL	353390.5	3793160	6.23E-07	6.5YrCancerDerived_Inh_FAH16to70
515	ALL	354223.1	3792893	6.23E-07	6.5YrCancerDerived_Inh_FAH16to70
1388	ALL	353540.5	3792760	6.22E-07	6.5YrCancerDerived_Inh_FAH16to70
1218	ALL	353640.5	3792610	6.22E-07	6.5YrCancerDerived_Inh_FAH16to70
483	ALL	354198.1	3792868	6.22E-07	6.5YrCancerDerived_Inh_FAH16to70
1674	ALL	353440.5	3793010	6.22E-07	6.5YrCancerDerived_Inh_FAH16to70
547	ALL	354248.1	3792918	6.21E-07	6.5YrCancerDerived_Inh_FAH16to70
1190	ALL	353665.5	3792585	6.21E-07	6.5YrCancerDerived_Inh_FAH16to70
1010	ALL	354548.1	3793318	6.21E-07	6.5YrCancerDerived_Inh_FAH16to70
675	ALL	354348.1	3793018	6.20E-07	6.5YrCancerDerived_Inh_FAH16to70
322	ALL	354048.1	3792743	6.20E-07	6.5YrCancerDerived_Inh_FAH16to70
258	ALL	353998.1	3792693	6.20E-07	6.5YrCancerDerived_Inh_FAH16to70
226	ALL	353973.1	3792668	6.19E-07	6.5YrCancerDerived_Inh_FAH16to70
1445	ALL	353515.5	3792810	6.19E-07	6.5YrCancerDerived_Inh_FAH16to70
611	ALL	354298.1	3792968	6.19E-07	6.5YrCancerDerived_Inh_FAH16to70
579	ALL	354273.1	3792943	6.19E-07	6.5YrCancerDerived_Inh_FAH16to70
1588	ALL	353465.5	3792935	6.18E-07	6.5YrCancerDerived_Inh_FAH16to70
194	ALL	353948.1	3792643	6.18E-07	6.5YrCancerDerived_Inh_FAH16to70
290	ALL	354023.1	3792718	6.18E-07	6.5YrCancerDerived_Inh_FAH16to70
1331	ALL	353565.5	3792710	6.17E-07	6.5YrCancerDerived_Inh_FAH16to70
162	ALL	353923.1	3792618	6.17E-07	6.5YrCancerDerived_Inh_FAH16to70
871	ALL	354473.1	3793168	6.16E-07	6.5YrCancerDerived_Inh_FAH16to70
707	ALL	354373.1	3793043	6.15E-07	6.5YrCancerDerived_Inh_FAH16to70

451	ALL	354173.1	3792843	6.15E-07	6.5YrCancerDerived_Inh_FAH16to70
1246	ALL	353615.5	3792635	6.13E-07	6.5YrCancerDerived_Inh_FAH16to70
1731	ALL	353415.5	3793060	6.12E-07	6.5YrCancerDerived_Inh_FAH16to70
419	ALL	354148.1	3792818	6.12E-07	6.5YrCancerDerived_Inh_FAH16to70
387	ALL	354123.1	3792793	6.11E-07	6.5YrCancerDerived_Inh_FAH16to70
773	ALL	354423.1	3793093	6.11E-07	6.5YrCancerDerived_Inh_FAH16to70
740	ALL	354398.1	3793068	6.11E-07	6.5YrCancerDerived_Inh_FAH16to70
130	ALL	353898.1	3792593	6.10E-07	6.5YrCancerDerived_Inh_FAH16to70
1502	ALL	353490.5	3792860	6.10E-07	6.5YrCancerDerived_Inh_FAH16to70
952	ALL	354523.1	3793243	6.09E-07	6.5YrCancerDerived_Inh_FAH16to70
1820	ALL	353390.5	3793135	6.08E-07	6.5YrCancerDerived_Inh_FAH16to70
1162	ALL	353690.5	3792560	6.07E-07	6.5YrCancerDerived_Inh_FAH16to70
65	ALL	353823.1	3792543	6.07E-07	6.5YrCancerDerived_Inh_FAH16to70
1645	ALL	353440.5	3792985	6.07E-07	6.5YrCancerDerived_Inh_FAH16to70
991	ALL	354548.1	3793293	6.06E-07	6.5YrCancerDerived_Inh_FAH16to70
1909	ALL	353365.5	3793210	6.06E-07	6.5YrCancerDerived_Inh_FAH16to70
904	ALL	354498.1	3793193	6.04E-07	6.5YrCancerDerived_Inh_FAH16to70
355	ALL	354098.1	3792768	6.04E-07	6.5YrCancerDerived_Inh_FAH16to70
806	ALL	354448.1	3793118	6.03E-07	6.5YrCancerDerived_Inh_FAH16to70
1790	ALL	353390.5	3793110	6.01E-07	6.5YrCancerDerived_Inh_FAH16to70
1559	ALL	353465.5	3792910	6.00E-07	6.5YrCancerDerived_Inh_FAH16to70
516	ALL	354248.1	3792893	5.98E-07	6.5YrCancerDerived_Inh_FAH16to70
1274	ALL	353590.5	3792660	5.98E-07	6.5YrCancerDerived_Inh_FAH16to70
644	ALL	354348.1	3792993	5.98E-07	6.5YrCancerDerived_Inh_FAH16to70
484	ALL	354223.1	3792868	5.97E-07	6.5YrCancerDerived_Inh_FAH16to70
323	ALL	354073.1	3792743	5.97E-07	6.5YrCancerDerived_Inh_FAH16to70
548	ALL	354273.1	3792918	5.95E-07	6.5YrCancerDerived_Inh_FAH16to70
1879	ALL	353365.5	3793185	5.95E-07	6.5YrCancerDerived_Inh_FAH16to70
1416	ALL	353515.5	3792785	5.95E-07	6.5YrCancerDerived_Inh_FAH16to70
98	ALL	353873.1	3792568	5.93E-07	6.5YrCancerDerived_Inh_FAH16to70
580	ALL	354298.1	3792943	5.93E-07	6.5YrCancerDerived_Inh_FAH16to70
839	ALL	354473.1	3793143	5.93E-07	6.5YrCancerDerived_Inh_FAH16to70
612	ALL	354323.1	3792968	5.92E-07	6.5YrCancerDerived_Inh_FAH16to70
1359	ALL	353540.5	3792735	5.92E-07	6.5YrCancerDerived_Inh_FAH16to70
1702	ALL	353415.5	3793035	5.92E-07	6.5YrCancerDerived_Inh_FAH16to70
291	ALL	354048.1	3792718	5.92E-07	6.5YrCancerDerived_Inh_FAH16to70
259	ALL	354023.1	3792693	5.91E-07	6.5YrCancerDerived_Inh_FAH16to70
936	ALL	354523.1	3793218	5.91E-07	6.5YrCancerDerived_Inh_FAH16to70
1616	ALL	353440.5	3792960	5.91E-07	6.5YrCancerDerived_Inh_FAH16to70
972	ALL	354548.1	3793268	5.90E-07	6.5YrCancerDerived_Inh_FAH16to70
452	ALL	354198.1	3792843	5.90E-07	6.5YrCancerDerived_Inh_FAH16to70
1760	ALL	353390.5	3793085	5.90E-07	6.5YrCancerDerived_Inh_FAH16to70
676	ALL	354373.1	3793018	5.90E-07	6.5YrCancerDerived_Inh_FAH16to70
227	ALL	353998.1	3792668	5.89E-07	6.5YrCancerDerived_Inh_FAH16to70
1473	ALL	353490.5	3792835	5.89E-07	6.5YrCancerDerived_Inh_FAH16to70
420	ALL	354173.1	3792818	5.89E-07	6.5YrCancerDerived_Inh_FAH16to70
388	ALL	354148.1	3792793	5.87E-07	6.5YrCancerDerived_Inh_FAH16to70

356	ALL	354123.1	3792768	5.86E-07	6.5YrCancerDerived_Inh_FAH16to70
741	ALL	354423.1	3793068	5.85E-07	6.5YrCancerDerived_Inh_FAH16to70
708	ALL	354398.1	3793043	5.85E-07	6.5YrCancerDerived_Inh_FAH16to70
195	ALL	353973.1	3792643	5.85E-07	6.5YrCancerDerived_Inh_FAH16to70
872	ALL	354498.1	3793168	5.83E-07	6.5YrCancerDerived_Inh_FAH16to70
1849	ALL	353365.5	3793160	5.83E-07	6.5YrCancerDerived_Inh_FAH16to70
1530	ALL	353465.5	3792885	5.82E-07	6.5YrCancerDerived_Inh_FAH16to70
163	ALL	353948.1	3792618	5.81E-07	6.5YrCancerDerived_Inh_FAH16to70
1302	ALL	353565.5	3792685	5.80E-07	6.5YrCancerDerived_Inh_FAH16to70
774	ALL	354448.1	3793093	5.79E-07	6.5YrCancerDerived_Inh_FAH16to70
1134	ALL	353715.5	3792535	5.78E-07	6.5YrCancerDerived_Inh_FAH16to70
324	ALL	354098.1	3792743	5.78E-07	6.5YrCancerDerived_Inh_FAH16to70
1730	ALL	353390.5	3793060	5.77E-07	6.5YrCancerDerived_Inh_FAH16to70
1587	ALL	353440.5	3792935	5.74E-07	6.5YrCancerDerived_Inh_FAH16to70
517	ALL	354273.1	3792893	5.74E-07	6.5YrCancerDerived_Inh_FAH16to70
953	ALL	354548.1	3793243	5.74E-07	6.5YrCancerDerived_Inh_FAH16to70
1673	ALL	353415.5	3793010	5.74E-07	6.5YrCancerDerived_Inh_FAH16to70
131	ALL	353923.1	3792593	5.74E-07	6.5YrCancerDerived_Inh_FAH16to70
485	ALL	354248.1	3792868	5.73E-07	6.5YrCancerDerived_Inh_FAH16to70
66	ALL	353848.1	3792543	5.73E-07	6.5YrCancerDerived_Inh_FAH16to70
905	ALL	354523.1	3793193	5.73E-07	6.5YrCancerDerived_Inh_FAH16to70
549	ALL	354298.1	3792918	5.71E-07	6.5YrCancerDerived_Inh_FAH16to70
807	ALL	354473.1	3793118	5.70E-07	6.5YrCancerDerived_Inh_FAH16to70
1819	ALL	353365.5	3793135	5.70E-07	6.5YrCancerDerived_Inh_FAH16to70
292	ALL	354073.1	3792718	5.70E-07	6.5YrCancerDerived_Inh_FAH16to70
1908	ALL	353340.5	3793210	5.70E-07	6.5YrCancerDerived_Inh_FAH16to70
32	ALL	353773.1	3792518	5.69E-07	6.5YrCancerDerived_Inh_FAH16to70
1387	ALL	353515.5	3792760	5.69E-07	6.5YrCancerDerived_Inh_FAH16to70
1444	ALL	353490.5	3792810	5.68E-07	6.5YrCancerDerived_Inh_FAH16to70
645	ALL	354373.1	3792993	5.68E-07	6.5YrCancerDerived_Inh_FAH16to70
389	ALL	354173.1	3792793	5.68E-07	6.5YrCancerDerived_Inh_FAH16to70
613	ALL	354348.1	3792968	5.67E-07	6.5YrCancerDerived_Inh_FAH16to70
453	ALL	354223.1	3792843	5.67E-07	6.5YrCancerDerived_Inh_FAH16to70
421	ALL	354198.1	3792818	5.67E-07	6.5YrCancerDerived_Inh_FAH16to70
581	ALL	354323.1	3792943	5.66E-07	6.5YrCancerDerived_Inh_FAH16to70
260	ALL	354048.1	3792693	5.66E-07	6.5YrCancerDerived_Inh_FAH16to70
1644	ALL	353415.5	3792985	5.65E-07	6.5YrCancerDerived_Inh_FAH16to70
228	ALL	354023.1	3792668	5.64E-07	6.5YrCancerDerived_Inh_FAH16to70
1501	ALL	353465.5	3792860	5.64E-07	6.5YrCancerDerived_Inh_FAH16to70
357	ALL	354148.1	3792768	5.63E-07	6.5YrCancerDerived_Inh_FAH16to70
840	ALL	354498.1	3793143	5.62E-07	6.5YrCancerDerived_Inh_FAH16to70
1189	ALL	353640.5	3792585	5.62E-07	6.5YrCancerDerived_Inh_FAH16to70
677	ALL	354398.1	3793018	5.62E-07	6.5YrCancerDerived_Inh_FAH16to70
325	ALL	354123.1	3792743	5.61E-07	6.5YrCancerDerived_Inh_FAH16to70
1217	ALL	353615.5	3792610	5.61E-07	6.5YrCancerDerived_Inh_FAH16to70
33	ALL	353798.1	3792518	5.61E-07	6.5YrCancerDerived_Inh_FAH16to70
1330	ALL	353540.5	3792710	5.61E-07	6.5YrCancerDerived_Inh_FAH16to70

1789	ALL	353365.5	3793110	5.61E-07	6.5YrCancerDerived_Inh_FAH16to70
709	ALL	354423.1	3793043	5.60E-07	6.5YrCancerDerived_Inh_FAH16to70
1878	ALL	353340.5	3793185	5.60E-07	6.5YrCancerDerived_Inh_FAH16to70
99	ALL	353898.1	3792568	5.59E-07	6.5YrCancerDerived_Inh_FAH16to70
1701	ALL	353390.5	3793035	5.59E-07	6.5YrCancerDerived_Inh_FAH16to70
937	ALL	354548.1	3793218	5.58E-07	6.5YrCancerDerived_Inh_FAH16to70
196	ALL	353998.1	3792643	5.58E-07	6.5YrCancerDerived_Inh_FAH16to70
1558	ALL	353440.5	3792910	5.58E-07	6.5YrCancerDerived_Inh_FAH16to70
742	ALL	354448.1	3793068	5.56E-07	6.5YrCancerDerived_Inh_FAH16to70
1161	ALL	353665.5	3792560	5.55E-07	6.5YrCancerDerived_Inh_FAH16to70
873	ALL	354523.1	3793168	5.54E-07	6.5YrCancerDerived_Inh_FAH16to70
1245	ALL	353590.5	3792635	5.54E-07	6.5YrCancerDerived_Inh_FAH16to70
293	ALL	354098.1	3792718	5.53E-07	6.5YrCancerDerived_Inh_FAH16to70
164	ALL	353973.1	3792618	5.53E-07	6.5YrCancerDerived_Inh_FAH16to70
486	ALL	354273.1	3792868	5.52E-07	6.5YrCancerDerived_Inh_FAH16to70
518	ALL	354298.1	3792893	5.51E-07	6.5YrCancerDerived_Inh_FAH16to70
1615	ALL	353415.5	3792960	5.51E-07	6.5YrCancerDerived_Inh_FAH16to70
1759	ALL	353365.5	3793085	5.50E-07	6.5YrCancerDerived_Inh_FAH16to70
775	ALL	354473.1	3793093	5.50E-07	6.5YrCancerDerived_Inh_FAH16to70
1848	ALL	353340.5	3793160	5.48E-07	6.5YrCancerDerived_Inh_FAH16to70
1415	ALL	353490.5	3792785	5.47E-07	6.5YrCancerDerived_Inh_FAH16to70
390	ALL	354198.1	3792793	5.47E-07	6.5YrCancerDerived_Inh_FAH16to70
550	ALL	354323.1	3792918	5.46E-07	6.5YrCancerDerived_Inh_FAH16to70
454	ALL	354248.1	3792843	5.45E-07	6.5YrCancerDerived_Inh_FAH16to70
358	ALL	354173.1	3792768	5.45E-07	6.5YrCancerDerived_Inh_FAH16to70
422	ALL	354223.1	3792818	5.45E-07	6.5YrCancerDerived_Inh_FAH16to70
582	ALL	354348.1	3792943	5.45E-07	6.5YrCancerDerived_Inh_FAH16to70
132	ALL	353948.1	3792593	5.45E-07	6.5YrCancerDerived_Inh_FAH16to70
614	ALL	354373.1	3792968	5.45E-07	6.5YrCancerDerived_Inh_FAH16to70
261	ALL	354073.1	3792693	5.45E-07	6.5YrCancerDerived_Inh_FAH16to70
1472	ALL	353465.5	3792835	5.44E-07	6.5YrCancerDerived_Inh_FAH16to70
67	ALL	353873.1	3792543	5.43E-07	6.5YrCancerDerived_Inh_FAH16to70
1273	ALL	353565.5	3792660	5.43E-07	6.5YrCancerDerived_Inh_FAH16to70
1358	ALL	353515.5	3792735	5.42E-07	6.5YrCancerDerived_Inh_FAH16to70
34	ALL	353823.1	3792518	5.42E-07	6.5YrCancerDerived_Inh_FAH16to70
808	ALL	354498.1	3793118	5.42E-07	6.5YrCancerDerived_Inh_FAH16to70
906	ALL	354548.1	3793193	5.42E-07	6.5YrCancerDerived_Inh_FAH16to70
1529	ALL	353440.5	3792885	5.41E-07	6.5YrCancerDerived_Inh_FAH16to70
229	ALL	354048.1	3792668	5.40E-07	6.5YrCancerDerived_Inh_FAH16to70
1672	ALL	353390.5	3793010	5.40E-07	6.5YrCancerDerived_Inh_FAH16to70
326	ALL	354148.1	3792743	5.40E-07	6.5YrCancerDerived_Inh_FAH16to70
646	ALL	354398.1	3792993	5.40E-07	6.5YrCancerDerived_Inh_FAH16to70
1133	ALL	353690.5	3792535	5.39E-07	6.5YrCancerDerived_Inh_FAH16to70
1729	ALL	353365.5	3793060	5.38E-07	6.5YrCancerDerived_Inh_FAH16to70
1907	ALL	353315.5	3793210	5.37E-07	6.5YrCancerDerived_Inh_FAH16to70
678	ALL	354423.1	3793018	5.37E-07	6.5YrCancerDerived_Inh_FAH16to70
1818	ALL	353340.5	3793135	5.36E-07	6.5YrCancerDerived_Inh_FAH16to70

1586	ALL	353415.5	3792935	5.36E-07	6.5YrCancerDerived_Inh_FAH16to70
197	ALL	354023.1	3792643	5.35E-07	6.5YrCancerDerived_Inh_FAH16to70
841	ALL	354523.1	3793143	5.35E-07	6.5YrCancerDerived_Inh_FAH16to70
294	ALL	354123.1	3792718	5.35E-07	6.5YrCancerDerived_Inh_FAH16to70
710	ALL	354448.1	3793043	5.34E-07	6.5YrCancerDerived_Inh_FAH16to70
100	ALL	353923.1	3792568	5.31E-07	6.5YrCancerDerived_Inh_FAH16to70
487	ALL	354298.1	3792868	5.30E-07	6.5YrCancerDerived_Inh_FAH16to70
1301	ALL	353540.5	3792685	5.29E-07	6.5YrCancerDerived_Inh_FAH16to70
165	ALL	353998.1	3792618	5.29E-07	6.5YrCancerDerived_Inh_FAH16to70
743	ALL	354473.1	3793068	5.29E-07	6.5YrCancerDerived_Inh_FAH16to70
519	ALL	354323.1	3792893	5.29E-07	6.5YrCancerDerived_Inh_FAH16to70
262	ALL	354098.1	3792693	5.28E-07	6.5YrCancerDerived_Inh_FAH16to70
1788	ALL	353340.5	3793110	5.28E-07	6.5YrCancerDerived_Inh_FAH16to70
1877	ALL	353315.5	3793185	5.27E-07	6.5YrCancerDerived_Inh_FAH16to70
391	ALL	354223.1	3792793	5.26E-07	6.5YrCancerDerived_Inh_FAH16to70
359	ALL	354198.1	3792768	5.26E-07	6.5YrCancerDerived_Inh_FAH16to70
551	ALL	354348.1	3792918	5.25E-07	6.5YrCancerDerived_Inh_FAH16to70
1643	ALL	353390.5	3792985	5.25E-07	6.5YrCancerDerived_Inh_FAH16to70
1443	ALL	353465.5	3792810	5.25E-07	6.5YrCancerDerived_Inh_FAH16to70
874	ALL	354548.1	3793168	5.25E-07	6.5YrCancerDerived_Inh_FAH16to70
1700	ALL	353365.5	3793035	5.24E-07	6.5YrCancerDerived_Inh_FAH16to70
423	ALL	354248.1	3792818	5.24E-07	6.5YrCancerDerived_Inh_FAH16to70
455	ALL	354273.1	3792843	5.24E-07	6.5YrCancerDerived_Inh_FAH16to70
1500	ALL	353440.5	3792860	5.24E-07	6.5YrCancerDerived_Inh_FAH16to70
1386	ALL	353490.5	3792760	5.24E-07	6.5YrCancerDerived_Inh_FAH16to70
776	ALL	354498.1	3793093	5.23E-07	6.5YrCancerDerived_Inh_FAH16to70
583	ALL	354373.1	3792943	5.22E-07	6.5YrCancerDerived_Inh_FAH16to70
327	ALL	354173.1	3792743	5.21E-07	6.5YrCancerDerived_Inh_FAH16to70
133	ALL	353973.1	3792593	5.21E-07	6.5YrCancerDerived_Inh_FAH16to70
1557	ALL	353415.5	3792910	5.21E-07	6.5YrCancerDerived_Inh_FAH16to70
35	ALL	353848.1	3792518	5.20E-07	6.5YrCancerDerived_Inh_FAH16to70
230	ALL	354073.1	3792668	5.20E-07	6.5YrCancerDerived_Inh_FAH16to70
647	ALL	354423.1	3792993	5.19E-07	6.5YrCancerDerived_Inh_FAH16to70
615	ALL	354398.1	3792968	5.18E-07	6.5YrCancerDerived_Inh_FAH16to70
68	ALL	353898.1	3792543	5.17E-07	6.5YrCancerDerived_Inh_FAH16to70
1758	ALL	353340.5	3793085	5.17E-07	6.5YrCancerDerived_Inh_FAH16to70
295	ALL	354148.1	3792718	5.17E-07	6.5YrCancerDerived_Inh_FAH16to70
809	ALL	354523.1	3793118	5.17E-07	6.5YrCancerDerived_Inh_FAH16to70
1847	ALL	353315.5	3793160	5.16E-07	6.5YrCancerDerived_Inh_FAH16to70
1188	ALL	353615.5	3792585	5.15E-07	6.5YrCancerDerived_Inh_FAH16to70
1329	ALL	353515.5	3792710	5.15E-07	6.5YrCancerDerived_Inh_FAH16to70
1105	ALL	353715.5	3792510	5.15E-07	6.5YrCancerDerived_Inh_FAH16to70
198	ALL	354048.1	3792643	5.14E-07	6.5YrCancerDerived_Inh_FAH16to70
1614	ALL	353390.5	3792960	5.14E-07	6.5YrCancerDerived_Inh_FAH16to70
1216	ALL	353590.5	3792610	5.13E-07	6.5YrCancerDerived_Inh_FAH16to70
679	ALL	354448.1	3793018	5.12E-07	6.5YrCancerDerived_Inh_FAH16to70
263	ALL	354123.1	3792693	5.12E-07	6.5YrCancerDerived_Inh_FAH16to70

1160	ALL	353640.5	3792560	5.11E-07	6.5YrCancerDerived_Inh_FAH16to70
1671	ALL	353365.5	3793010	5.11E-07	6.5YrCancerDerived_Inh_FAH16to70
488	ALL	354323.1	3792868	5.09E-07	6.5YrCancerDerived_Inh_FAH16to70
360	ALL	354223.1	3792768	5.09E-07	6.5YrCancerDerived_Inh_FAH16to70
711	ALL	354473.1	3793043	5.08E-07	6.5YrCancerDerived_Inh_FAH16to70
166	ALL	354023.1	3792618	5.08E-07	6.5YrCancerDerived_Inh_FAH16to70
101	ALL	353948.1	3792568	5.08E-07	6.5YrCancerDerived_Inh_FAH16to70
842	ALL	354548.1	3793143	5.08E-07	6.5YrCancerDerived_Inh_FAH16to70
520	ALL	354348.1	3792893	5.07E-07	6.5YrCancerDerived_Inh_FAH16to70
392	ALL	354248.1	3792793	5.07E-07	6.5YrCancerDerived_Inh_FAH16to70
1244	ALL	353565.5	3792635	5.06E-07	6.5YrCancerDerived_Inh_FAH16to70
1906	ALL	353290.5	3793210	5.06E-07	6.5YrCancerDerived_Inh_FAH16to70
1414	ALL	353465.5	3792785	5.06E-07	6.5YrCancerDerived_Inh_FAH16to70
1	ALL	353773.1	3792493	5.06E-07	6.5YrCancerDerived_Inh_FAH16to70
1728	ALL	353340.5	3793060	5.06E-07	6.5YrCancerDerived_Inh_FAH16to70
1471	ALL	353440.5	3792835	5.06E-07	6.5YrCancerDerived_Inh_FAH16to70
328	ALL	354198.1	3792743	5.05E-07	6.5YrCancerDerived_Inh_FAH16to70
1528	ALL	353415.5	3792885	5.05E-07	6.5YrCancerDerived_Inh_FAH16to70
424	ALL	354273.1	3792818	5.05E-07	6.5YrCancerDerived_Inh_FAH16to70
744	ALL	354498.1	3793068	5.04E-07	6.5YrCancerDerived_Inh_FAH16to70
456	ALL	354298.1	3792843	5.04E-07	6.5YrCancerDerived_Inh_FAH16to70
1817	ALL	353315.5	3793135	5.04E-07	6.5YrCancerDerived_Inh_FAH16to70
2	ALL	353798.1	3792493	5.03E-07	6.5YrCancerDerived_Inh_FAH16to70
231	ALL	354098.1	3792668	5.03E-07	6.5YrCancerDerived_Inh_FAH16to70
1132	ALL	353665.5	3792535	5.02E-07	6.5YrCancerDerived_Inh_FAH16to70
1585	ALL	353390.5	3792935	5.02E-07	6.5YrCancerDerived_Inh_FAH16to70
134	ALL	353998.1	3792593	5.01E-07	6.5YrCancerDerived_Inh_FAH16to70
1357	ALL	353490.5	3792735	5.00E-07	6.5YrCancerDerived_Inh_FAH16to70
552	ALL	354373.1	3792918	5.00E-07	6.5YrCancerDerived_Inh_FAH16to70
296	ALL	354173.1	3792718	5.00E-07	6.5YrCancerDerived_Inh_FAH16to70
777	ALL	354523.1	3793093	5.00E-07	6.5YrCancerDerived_Inh_FAH16to70
36	ALL	353873.1	3792518	4.99E-07	6.5YrCancerDerived_Inh_FAH16to70
616	ALL	354423.1	3792968	4.99E-07	6.5YrCancerDerived_Inh_FAH16to70
1272	ALL	353540.5	3792660	4.98E-07	6.5YrCancerDerived_Inh_FAH16to70
1787	ALL	353315.5	3793110	4.98E-07	6.5YrCancerDerived_Inh_FAH16to70
584	ALL	354398.1	3792943	4.97E-07	6.5YrCancerDerived_Inh_FAH16to70
199	ALL	354073.1	3792643	4.96E-07	6.5YrCancerDerived_Inh_FAH16to70
1876	ALL	353290.5	3793185	4.96E-07	6.5YrCancerDerived_Inh_FAH16to70
69	ALL	353923.1	3792543	4.96E-07	6.5YrCancerDerived_Inh_FAH16to70
648	ALL	354448.1	3792993	4.95E-07	6.5YrCancerDerived_Inh_FAH16to70
264	ALL	354148.1	3792693	4.95E-07	6.5YrCancerDerived_Inh_FAH16to70
1642	ALL	353365.5	3792985	4.95E-07	6.5YrCancerDerived_Inh_FAH16to70
1699	ALL	353340.5	3793035	4.93E-07	6.5YrCancerDerived_Inh_FAH16to70
3	ALL	353823.1	3792493	4.93E-07	6.5YrCancerDerived_Inh_FAH16to70
361	ALL	354248.1	3792768	4.93E-07	6.5YrCancerDerived_Inh_FAH16to70
810	ALL	354548.1	3793118	4.92E-07	6.5YrCancerDerived_Inh_FAH16to70
329	ALL	354223.1	3792743	4.91E-07	6.5YrCancerDerived_Inh_FAH16to70

167	ALL	354048.1	3792618	4.90E-07	6.5YrCancerDerived_Inh_FAH16to70
1757	ALL	353315.5	3793085	4.90E-07	6.5YrCancerDerived_Inh_FAH16to70
680	ALL	354473.1	3793018	4.90E-07	6.5YrCancerDerived_Inh_FAH16to70
489	ALL	354348.1	3792868	4.89E-07	6.5YrCancerDerived_Inh_FAH16to70
102	ALL	353973.1	3792568	4.89E-07	6.5YrCancerDerived_Inh_FAH16to70
1499	ALL	353415.5	3792860	4.89E-07	6.5YrCancerDerived_Inh_FAH16to70
393	ALL	354273.1	3792793	4.88E-07	6.5YrCancerDerived_Inh_FAH16to70
1300	ALL	353515.5	3792685	4.88E-07	6.5YrCancerDerived_Inh_FAH16to70
1442	ALL	353440.5	3792810	4.88E-07	6.5YrCancerDerived_Inh_FAH16to70
1104	ALL	353690.5	3792510	4.88E-07	6.5YrCancerDerived_Inh_FAH16to70
1556	ALL	353390.5	3792910	4.87E-07	6.5YrCancerDerived_Inh_FAH16to70
232	ALL	354123.1	3792668	4.87E-07	6.5YrCancerDerived_Inh_FAH16to70
297	ALL	354198.1	3792718	4.86E-07	6.5YrCancerDerived_Inh_FAH16to70
712	ALL	354498.1	3793043	4.86E-07	6.5YrCancerDerived_Inh_FAH16to70
1385	ALL	353465.5	3792760	4.85E-07	6.5YrCancerDerived_Inh_FAH16to70
425	ALL	354298.1	3792818	4.85E-07	6.5YrCancerDerived_Inh_FAH16to70
1846	ALL	353290.5	3793160	4.85E-07	6.5YrCancerDerived_Inh_FAH16to70
457	ALL	354323.1	3792843	4.84E-07	6.5YrCancerDerived_Inh_FAH16to70
135	ALL	354023.1	3792593	4.83E-07	6.5YrCancerDerived_Inh_FAH16to70
745	ALL	354523.1	3793068	4.83E-07	6.5YrCancerDerived_Inh_FAH16to70
265	ALL	354173.1	3792693	4.82E-07	6.5YrCancerDerived_Inh_FAH16to70
330	ALL	354248.1	3792743	4.81E-07	6.5YrCancerDerived_Inh_FAH16to70
521	ALL	354373.1	3792893	4.81E-07	6.5YrCancerDerived_Inh_FAH16to70
1670	ALL	353340.5	3793010	4.81E-07	6.5YrCancerDerived_Inh_FAH16to70
1613	ALL	353365.5	3792960	4.80E-07	6.5YrCancerDerived_Inh_FAH16to70
37	ALL	353898.1	3792518	4.80E-07	6.5YrCancerDerived_Inh_FAH16to70
585	ALL	354423.1	3792943	4.80E-07	6.5YrCancerDerived_Inh_FAH16to70
200	ALL	354098.1	3792643	4.80E-07	6.5YrCancerDerived_Inh_FAH16to70
1727	ALL	353315.5	3793060	4.79E-07	6.5YrCancerDerived_Inh_FAH16to70
4	ALL	353848.1	3792493	4.78E-07	6.5YrCancerDerived_Inh_FAH16to70
553	ALL	354398.1	3792918	4.78E-07	6.5YrCancerDerived_Inh_FAH16to70
362	ALL	354273.1	3792768	4.77E-07	6.5YrCancerDerived_Inh_FAH16to70
70	ALL	353948.1	3792543	4.77E-07	6.5YrCancerDerived_Inh_FAH16to70
617	ALL	354448.1	3792968	4.77E-07	6.5YrCancerDerived_Inh_FAH16to70
1905	ALL	353265.5	3793210	4.77E-07	6.5YrCancerDerived_Inh_FAH16to70
1328	ALL	353490.5	3792710	4.76E-07	6.5YrCancerDerived_Inh_FAH16to70
778	ALL	354548.1	3793093	4.76E-07	6.5YrCancerDerived_Inh_FAH16to70
1187	ALL	353590.5	3792585	4.76E-07	6.5YrCancerDerived_Inh_FAH16to70
298	ALL	354223.1	3792718	4.74E-07	6.5YrCancerDerived_Inh_FAH16to70
1159	ALL	353615.5	3792560	4.74E-07	6.5YrCancerDerived_Inh_FAH16to70
1816	ALL	353290.5	3793135	4.74E-07	6.5YrCancerDerived_Inh_FAH16to70
168	ALL	354073.1	3792618	4.74E-07	6.5YrCancerDerived_Inh_FAH16to70
649	ALL	354473.1	3792993	4.74E-07	6.5YrCancerDerived_Inh_FAH16to70
1527	ALL	353390.5	3792885	4.73E-07	6.5YrCancerDerived_Inh_FAH16to70
1215	ALL	353565.5	3792610	4.73E-07	6.5YrCancerDerived_Inh_FAH16to70
1470	ALL	353415.5	3792835	4.73E-07	6.5YrCancerDerived_Inh_FAH16to70
103	ALL	353998.1	3792568	4.72E-07	6.5YrCancerDerived_Inh_FAH16to70

233	ALL	354148.1	3792668	4.70E-07	6.5YrCancerDerived_Inh_FAH16to70
394	ALL	354298.1	3792793	4.70E-07	6.5YrCancerDerived_Inh_FAH16to70
1413	ALL	353440.5	3792785	4.70E-07	6.5YrCancerDerived_Inh_FAH16to70
1641	ALL	353340.5	3792985	4.69E-07	6.5YrCancerDerived_Inh_FAH16to70
1584	ALL	353365.5	3792935	4.69E-07	6.5YrCancerDerived_Inh_FAH16to70
299	ALL	354248.1	3792718	4.69E-07	6.5YrCancerDerived_Inh_FAH16to70
1131	ALL	353640.5	3792535	4.69E-07	6.5YrCancerDerived_Inh_FAH16to70
331	ALL	354273.1	3792743	4.68E-07	6.5YrCancerDerived_Inh_FAH16to70
681	ALL	354498.1	3793018	4.68E-07	6.5YrCancerDerived_Inh_FAH16to70
1243	ALL	353540.5	3792635	4.68E-07	6.5YrCancerDerived_Inh_FAH16to70
1786	ALL	353290.5	3793110	4.68E-07	6.5YrCancerDerived_Inh_FAH16to70
266	ALL	354198.1	3792693	4.68E-07	6.5YrCancerDerived_Inh_FAH16to70
1875	ALL	353265.5	3793185	4.67E-07	6.5YrCancerDerived_Inh_FAH16to70
426	ALL	354323.1	3792818	4.67E-07	6.5YrCancerDerived_Inh_FAH16to70
136	ALL	354048.1	3792593	4.67E-07	6.5YrCancerDerived_Inh_FAH16to70
458	ALL	354348.1	3792843	4.66E-07	6.5YrCancerDerived_Inh_FAH16to70
1698	ALL	353315.5	3793035	4.66E-07	6.5YrCancerDerived_Inh_FAH16to70
713	ALL	354523.1	3793043	4.66E-07	6.5YrCancerDerived_Inh_FAH16to70
1356	ALL	353465.5	3792735	4.65E-07	6.5YrCancerDerived_Inh_FAH16to70
201	ALL	354123.1	3792643	4.64E-07	6.5YrCancerDerived_Inh_FAH16to70
5	ALL	353873.1	3792493	4.64E-07	6.5YrCancerDerived_Inh_FAH16to70
38	ALL	353923.1	3792518	4.63E-07	6.5YrCancerDerived_Inh_FAH16to70
490	ALL	354373.1	3792868	4.63E-07	6.5YrCancerDerived_Inh_FAH16to70
554	ALL	354423.1	3792918	4.62E-07	6.5YrCancerDerived_Inh_FAH16to70
1756	ALL	353290.5	3793085	4.61E-07	6.5YrCancerDerived_Inh_FAH16to70
1271	ALL	353515.5	3792660	4.61E-07	6.5YrCancerDerived_Inh_FAH16to70
71	ALL	353973.1	3792543	4.61E-07	6.5YrCancerDerived_Inh_FAH16to70
746	ALL	354548.1	3793068	4.60E-07	6.5YrCancerDerived_Inh_FAH16to70
363	ALL	354298.1	3792768	4.60E-07	6.5YrCancerDerived_Inh_FAH16to70
522	ALL	354398.1	3792893	4.60E-07	6.5YrCancerDerived_Inh_FAH16to70
1103	ALL	353665.5	3792510	4.60E-07	6.5YrCancerDerived_Inh_FAH16to70
234	ALL	354173.1	3792668	4.59E-07	6.5YrCancerDerived_Inh_FAH16to70
586	ALL	354448.1	3792943	4.59E-07	6.5YrCancerDerived_Inh_FAH16to70
1498	ALL	353390.5	3792860	4.59E-07	6.5YrCancerDerived_Inh_FAH16to70
169	ALL	354098.1	3792618	4.58E-07	6.5YrCancerDerived_Inh_FAH16to70
1555	ALL	353365.5	3792910	4.58E-07	6.5YrCancerDerived_Inh_FAH16to70
1845	ALL	353265.5	3793160	4.57E-07	6.5YrCancerDerived_Inh_FAH16to70
104	ALL	354023.1	3792568	4.57E-07	6.5YrCancerDerived_Inh_FAH16to70
618	ALL	354473.1	3792968	4.57E-07	6.5YrCancerDerived_Inh_FAH16to70
1441	ALL	353415.5	3792810	4.56E-07	6.5YrCancerDerived_Inh_FAH16to70
1612	ALL	353340.5	3792960	4.55E-07	6.5YrCancerDerived_Inh_FAH16to70
267	ALL	354223.1	3792693	4.54E-07	6.5YrCancerDerived_Inh_FAH16to70
1669	ALL	353315.5	3793010	4.54E-07	6.5YrCancerDerived_Inh_FAH16to70
300	ALL	354273.1	3792718	4.53E-07	6.5YrCancerDerived_Inh_FAH16to70
650	ALL	354498.1	3792993	4.53E-07	6.5YrCancerDerived_Inh_FAH16to70
1299	ALL	353490.5	3792685	4.53E-07	6.5YrCancerDerived_Inh_FAH16to70
395	ALL	354323.1	3792793	4.52E-07	6.5YrCancerDerived_Inh_FAH16to70

137	ALL	354073.1	3792593	4.52E-07	6.5YrCancerDerived_Inh_FAH16to70
332	ALL	354298.1	3792743	4.52E-07	6.5YrCancerDerived_Inh_FAH16to70
1384	ALL	353440.5	3792760	4.52E-07	6.5YrCancerDerived_Inh_FAH16to70
1726	ALL	353290.5	3793060	4.52E-07	6.5YrCancerDerived_Inh_FAH16to70
1904	ALL	353240.5	3793210	4.50E-07	6.5YrCancerDerived_Inh_FAH16to70
427	ALL	354348.1	3792818	4.49E-07	6.5YrCancerDerived_Inh_FAH16to70
6	ALL	353898.1	3792493	4.49E-07	6.5YrCancerDerived_Inh_FAH16to70
202	ALL	354148.1	3792643	4.49E-07	6.5YrCancerDerived_Inh_FAH16to70
682	ALL	354523.1	3793018	4.48E-07	6.5YrCancerDerived_Inh_FAH16to70
39	ALL	353948.1	3792518	4.48E-07	6.5YrCancerDerived_Inh_FAH16to70
1815	ALL	353265.5	3793135	4.47E-07	6.5YrCancerDerived_Inh_FAH16to70
459	ALL	354373.1	3792843	4.46E-07	6.5YrCancerDerived_Inh_FAH16to70
72	ALL	353998.1	3792543	4.46E-07	6.5YrCancerDerived_Inh_FAH16to70
714	ALL	354548.1	3793043	4.45E-07	6.5YrCancerDerived_Inh_FAH16to70
1526	ALL	353365.5	3792885	4.45E-07	6.5YrCancerDerived_Inh_FAH16to70
268	ALL	354248.1	3792693	4.44E-07	6.5YrCancerDerived_Inh_FAH16to70
523	ALL	354423.1	3792893	4.44E-07	6.5YrCancerDerived_Inh_FAH16to70
235	ALL	354198.1	3792668	4.44E-07	6.5YrCancerDerived_Inh_FAH16to70
1327	ALL	353465.5	3792710	4.44E-07	6.5YrCancerDerived_Inh_FAH16to70
1469	ALL	353390.5	3792835	4.44E-07	6.5YrCancerDerived_Inh_FAH16to70
170	ALL	354123.1	3792618	4.44E-07	6.5YrCancerDerived_Inh_FAH16to70
491	ALL	354398.1	3792868	4.43E-07	6.5YrCancerDerived_Inh_FAH16to70
364	ALL	354323.1	3792768	4.43E-07	6.5YrCancerDerived_Inh_FAH16to70
105	ALL	354048.1	3792568	4.43E-07	6.5YrCancerDerived_Inh_FAH16to70
1640	ALL	353315.5	3792985	4.43E-07	6.5YrCancerDerived_Inh_FAH16to70
1186	ALL	353565.5	3792585	4.42E-07	6.5YrCancerDerived_Inh_FAH16to70
1158	ALL	353590.5	3792560	4.42E-07	6.5YrCancerDerived_Inh_FAH16to70
555	ALL	354448.1	3792918	4.42E-07	6.5YrCancerDerived_Inh_FAH16to70
1583	ALL	353340.5	3792935	4.41E-07	6.5YrCancerDerived_Inh_FAH16to70
1874	ALL	353240.5	3793185	4.41E-07	6.5YrCancerDerived_Inh_FAH16to70
1785	ALL	353265.5	3793110	4.41E-07	6.5YrCancerDerived_Inh_FAH16to70
1214	ALL	353540.5	3792610	4.40E-07	6.5YrCancerDerived_Inh_FAH16to70
587	ALL	354473.1	3792943	4.40E-07	6.5YrCancerDerived_Inh_FAH16to70
1697	ALL	353290.5	3793035	4.40E-07	6.5YrCancerDerived_Inh_FAH16to70
1130	ALL	353615.5	3792535	4.39E-07	6.5YrCancerDerived_Inh_FAH16to70
1412	ALL	353415.5	3792785	4.39E-07	6.5YrCancerDerived_Inh_FAH16to70
138	ALL	354098.1	3792593	4.38E-07	6.5YrCancerDerived_Inh_FAH16to70
619	ALL	354498.1	3792968	4.37E-07	6.5YrCancerDerived_Inh_FAH16to70
1242	ALL	353515.5	3792635	4.36E-07	6.5YrCancerDerived_Inh_FAH16to70
301	ALL	354298.1	3792718	4.36E-07	6.5YrCancerDerived_Inh_FAH16to70
333	ALL	354323.1	3792743	4.36E-07	6.5YrCancerDerived_Inh_FAH16to70
396	ALL	354348.1	3792793	4.35E-07	6.5YrCancerDerived_Inh_FAH16to70
7	ALL	353923.1	3792493	4.35E-07	6.5YrCancerDerived_Inh_FAH16to70
651	ALL	354523.1	3792993	4.35E-07	6.5YrCancerDerived_Inh_FAH16to70
40	ALL	353973.1	3792518	4.35E-07	6.5YrCancerDerived_Inh_FAH16to70
203	ALL	354173.1	3792643	4.35E-07	6.5YrCancerDerived_Inh_FAH16to70
1755	ALL	353265.5	3793085	4.35E-07	6.5YrCancerDerived_Inh_FAH16to70

1355	ALL	353440.5	3792735	4.34E-07	6.5YrCancerDerived_Inh_FAH16to70
1102	ALL	353640.5	3792510	4.34E-07	6.5YrCancerDerived_Inh_FAH16to70
269	ALL	354273.1	3792693	4.33E-07	6.5YrCancerDerived_Inh_FAH16to70
73	ALL	354023.1	3792543	4.33E-07	6.5YrCancerDerived_Inh_FAH16to70
1611	ALL	353315.5	3792960	4.32E-07	6.5YrCancerDerived_Inh_FAH16to70
1844	ALL	353240.5	3793160	4.32E-07	6.5YrCancerDerived_Inh_FAH16to70
1497	ALL	353365.5	3792860	4.31E-07	6.5YrCancerDerived_Inh_FAH16to70
236	ALL	354223.1	3792668	4.31E-07	6.5YrCancerDerived_Inh_FAH16to70
428	ALL	354373.1	3792818	4.31E-07	6.5YrCancerDerived_Inh_FAH16to70
1270	ALL	353490.5	3792660	4.30E-07	6.5YrCancerDerived_Inh_FAH16to70
106	ALL	354073.1	3792568	4.30E-07	6.5YrCancerDerived_Inh_FAH16to70
1554	ALL	353340.5	3792910	4.30E-07	6.5YrCancerDerived_Inh_FAH16to70
171	ALL	354148.1	3792618	4.29E-07	6.5YrCancerDerived_Inh_FAH16to70
1668	ALL	353290.5	3793010	4.29E-07	6.5YrCancerDerived_Inh_FAH16to70
1440	ALL	353390.5	3792810	4.29E-07	6.5YrCancerDerived_Inh_FAH16to70
460	ALL	354398.1	3792843	4.27E-07	6.5YrCancerDerived_Inh_FAH16to70
492	ALL	354423.1	3792868	4.27E-07	6.5YrCancerDerived_Inh_FAH16to70
1903	ALL	353215.5	3793210	4.26E-07	6.5YrCancerDerived_Inh_FAH16to70
1725	ALL	353265.5	3793060	4.26E-07	6.5YrCancerDerived_Inh_FAH16to70
524	ALL	354448.1	3792893	4.25E-07	6.5YrCancerDerived_Inh_FAH16to70
139	ALL	354123.1	3792593	4.25E-07	6.5YrCancerDerived_Inh_FAH16to70
556	ALL	354473.1	3792918	4.24E-07	6.5YrCancerDerived_Inh_FAH16to70
1298	ALL	353465.5	3792685	4.23E-07	6.5YrCancerDerived_Inh_FAH16to70
365	ALL	354348.1	3792768	4.23E-07	6.5YrCancerDerived_Inh_FAH16to70
8	ALL	353948.1	3792493	4.23E-07	6.5YrCancerDerived_Inh_FAH16to70
1814	ALL	353240.5	3793135	4.23E-07	6.5YrCancerDerived_Inh_FAH16to70
1383	ALL	353415.5	3792760	4.22E-07	6.5YrCancerDerived_Inh_FAH16to70
41	ALL	353998.1	3792518	4.22E-07	6.5YrCancerDerived_Inh_FAH16to70
302	ALL	354323.1	3792718	4.21E-07	6.5YrCancerDerived_Inh_FAH16to70
588	ALL	354498.1	3792943	4.21E-07	6.5YrCancerDerived_Inh_FAH16to70
204	ALL	354198.1	3792643	4.21E-07	6.5YrCancerDerived_Inh_FAH16to70
620	ALL	354523.1	3792968	4.20E-07	6.5YrCancerDerived_Inh_FAH16to70
74	ALL	354048.1	3792543	4.20E-07	6.5YrCancerDerived_Inh_FAH16to70
1525	ALL	353340.5	3792885	4.20E-07	6.5YrCancerDerived_Inh_FAH16to70
237	ALL	354248.1	3792668	4.20E-07	6.5YrCancerDerived_Inh_FAH16to70
1582	ALL	353315.5	3792935	4.19E-07	6.5YrCancerDerived_Inh_FAH16to70
1639	ALL	353290.5	3792985	4.18E-07	6.5YrCancerDerived_Inh_FAH16to70
1873	ALL	353215.5	3793185	4.18E-07	6.5YrCancerDerived_Inh_FAH16to70
1468	ALL	353365.5	3792835	4.17E-07	6.5YrCancerDerived_Inh_FAH16to70
107	ALL	354098.1	3792568	4.17E-07	6.5YrCancerDerived_Inh_FAH16to70
1784	ALL	353240.5	3793110	4.17E-07	6.5YrCancerDerived_Inh_FAH16to70
397	ALL	354373.1	3792793	4.16E-07	6.5YrCancerDerived_Inh_FAH16to70
1326	ALL	353440.5	3792710	4.16E-07	6.5YrCancerDerived_Inh_FAH16to70
172	ALL	354173.1	3792618	4.16E-07	6.5YrCancerDerived_Inh_FAH16to70
1696	ALL	353265.5	3793035	4.15E-07	6.5YrCancerDerived_Inh_FAH16to70
1157	ALL	353565.5	3792560	4.15E-07	6.5YrCancerDerived_Inh_FAH16to70
1185	ALL	353540.5	3792585	4.14E-07	6.5YrCancerDerived_Inh_FAH16to70

270	ALL	354298.1	3792693	4.14E-07	6.5YrCancerDerived_Inh_FAH16to70
429	ALL	354398.1	3792818	4.14E-07	6.5YrCancerDerived_Inh_FAH16to70
1129	ALL	353590.5	3792535	4.13E-07	6.5YrCancerDerived_Inh_FAH16to70
1411	ALL	353390.5	3792785	4.13E-07	6.5YrCancerDerived_Inh_FAH16to70
461	ALL	354423.1	3792843	4.13E-07	6.5YrCancerDerived_Inh_FAH16to70
334	ALL	354348.1	3792743	4.12E-07	6.5YrCancerDerived_Inh_FAH16to70
1213	ALL	353515.5	3792610	4.12E-07	6.5YrCancerDerived_Inh_FAH16to70
9	ALL	353973.1	3792493	4.12E-07	6.5YrCancerDerived_Inh_FAH16to70
140	ALL	354148.1	3792593	4.11E-07	6.5YrCancerDerived_Inh_FAH16to70
1754	ALL	353240.5	3793085	4.11E-07	6.5YrCancerDerived_Inh_FAH16to70
42	ALL	354023.1	3792518	4.11E-07	6.5YrCancerDerived_Inh_FAH16to70
1101	ALL	353615.5	3792510	4.10E-07	6.5YrCancerDerived_Inh_FAH16to70
238	ALL	354273.1	3792668	4.10E-07	6.5YrCancerDerived_Inh_FAH16to70
493	ALL	354448.1	3792868	4.09E-07	6.5YrCancerDerived_Inh_FAH16to70
1843	ALL	353215.5	3793160	4.09E-07	6.5YrCancerDerived_Inh_FAH16to70
1610	ALL	353290.5	3792960	4.09E-07	6.5YrCancerDerived_Inh_FAH16to70
525	ALL	354473.1	3792893	4.08E-07	6.5YrCancerDerived_Inh_FAH16to70
1241	ALL	353490.5	3792635	4.08E-07	6.5YrCancerDerived_Inh_FAH16to70
75	ALL	354073.1	3792543	4.08E-07	6.5YrCancerDerived_Inh_FAH16to70
1354	ALL	353415.5	3792735	4.08E-07	6.5YrCancerDerived_Inh_FAH16to70
1496	ALL	353340.5	3792860	4.08E-07	6.5YrCancerDerived_Inh_FAH16to70
205	ALL	354223.1	3792643	4.07E-07	6.5YrCancerDerived_Inh_FAH16to70
557	ALL	354498.1	3792918	4.06E-07	6.5YrCancerDerived_Inh_FAH16to70
1553	ALL	353315.5	3792910	4.06E-07	6.5YrCancerDerived_Inh_FAH16to70
1667	ALL	353265.5	3793010	4.05E-07	6.5YrCancerDerived_Inh_FAH16to70
589	ALL	354523.1	3792943	4.05E-07	6.5YrCancerDerived_Inh_FAH16to70
108	ALL	354123.1	3792568	4.05E-07	6.5YrCancerDerived_Inh_FAH16to70
1902	ALL	353190.5	3793210	4.04E-07	6.5YrCancerDerived_Inh_FAH16to70
1439	ALL	353365.5	3792810	4.04E-07	6.5YrCancerDerived_Inh_FAH16to70
1269	ALL	353465.5	3792660	4.03E-07	6.5YrCancerDerived_Inh_FAH16to70
271	ALL	354323.1	3792693	4.03E-07	6.5YrCancerDerived_Inh_FAH16to70
173	ALL	354198.1	3792618	4.03E-07	6.5YrCancerDerived_Inh_FAH16to70
1724	ALL	353240.5	3793060	4.03E-07	6.5YrCancerDerived_Inh_FAH16to70
303	ALL	354348.1	3792718	4.02E-07	6.5YrCancerDerived_Inh_FAH16to70
366	ALL	354373.1	3792768	4.02E-07	6.5YrCancerDerived_Inh_FAH16to70
10	ALL	353998.1	3792493	4.01E-07	6.5YrCancerDerived_Inh_FAH16to70
1813	ALL	353215.5	3793135	4.01E-07	6.5YrCancerDerived_Inh_FAH16to70
398	ALL	354398.1	3792793	4.00E-07	6.5YrCancerDerived_Inh_FAH16to70
141	ALL	354173.1	3792593	4.00E-07	6.5YrCancerDerived_Inh_FAH16to70
43	ALL	354048.1	3792518	3.99E-07	6.5YrCancerDerived_Inh_FAH16to70
430	ALL	354423.1	3792818	3.99E-07	6.5YrCancerDerived_Inh_FAH16to70
1581	ALL	353290.5	3792935	3.99E-07	6.5YrCancerDerived_Inh_FAH16to70
1382	ALL	353390.5	3792760	3.98E-07	6.5YrCancerDerived_Inh_FAH16to70
1297	ALL	353440.5	3792685	3.98E-07	6.5YrCancerDerived_Inh_FAH16to70
76	ALL	354098.1	3792543	3.97E-07	6.5YrCancerDerived_Inh_FAH16to70
1872	ALL	353190.5	3793185	3.96E-07	6.5YrCancerDerived_Inh_FAH16to70
462	ALL	354448.1	3792843	3.96E-07	6.5YrCancerDerived_Inh_FAH16to70

1638	ALL	353265.5	3792985	3.96E-07	6.5YrCancerDerived_Inh_FAH16to70
206	ALL	354248.1	3792643	3.96E-07	6.5YrCancerDerived_Inh_FAH16to70
1783	ALL	353215.5	3793110	3.95E-07	6.5YrCancerDerived_Inh_FAH16to70
1524	ALL	353315.5	3792885	3.95E-07	6.5YrCancerDerived_Inh_FAH16to70
1467	ALL	353340.5	3792835	3.94E-07	6.5YrCancerDerived_Inh_FAH16to70
494	ALL	354473.1	3792868	3.94E-07	6.5YrCancerDerived_Inh_FAH16to70
1695	ALL	353240.5	3793035	3.94E-07	6.5YrCancerDerived_Inh_FAH16to70
239	ALL	354298.1	3792668	3.93E-07	6.5YrCancerDerived_Inh_FAH16to70
526	ALL	354498.1	3792893	3.93E-07	6.5YrCancerDerived_Inh_FAH16to70
109	ALL	354148.1	3792568	3.93E-07	6.5YrCancerDerived_Inh_FAH16to70
1325	ALL	353415.5	3792710	3.92E-07	6.5YrCancerDerived_Inh_FAH16to70
558	ALL	354523.1	3792918	3.91E-07	6.5YrCancerDerived_Inh_FAH16to70
11	ALL	354023.1	3792493	3.91E-07	6.5YrCancerDerived_Inh_FAH16to70
1156	ALL	353540.5	3792560	3.91E-07	6.5YrCancerDerived_Inh_FAH16to70
174	ALL	354223.1	3792618	3.90E-07	6.5YrCancerDerived_Inh_FAH16to70
1128	ALL	353565.5	3792535	3.90E-07	6.5YrCancerDerived_Inh_FAH16to70
1184	ALL	353515.5	3792585	3.90E-07	6.5YrCancerDerived_Inh_FAH16to70
335	ALL	354373.1	3792743	3.90E-07	6.5YrCancerDerived_Inh_FAH16to70
1410	ALL	353365.5	3792785	3.90E-07	6.5YrCancerDerived_Inh_FAH16to70
1753	ALL	353215.5	3793085	3.89E-07	6.5YrCancerDerived_Inh_FAH16to70
44	ALL	354073.1	3792518	3.89E-07	6.5YrCancerDerived_Inh_FAH16to70
1100	ALL	353590.5	3792510	3.88E-07	6.5YrCancerDerived_Inh_FAH16to70
1842	ALL	353190.5	3793160	3.88E-07	6.5YrCancerDerived_Inh_FAH16to70
142	ALL	354198.1	3792593	3.88E-07	6.5YrCancerDerived_Inh_FAH16to70
1552	ALL	353290.5	3792910	3.88E-07	6.5YrCancerDerived_Inh_FAH16to70
1212	ALL	353490.5	3792610	3.88E-07	6.5YrCancerDerived_Inh_FAH16to70
1609	ALL	353265.5	3792960	3.87E-07	6.5YrCancerDerived_Inh_FAH16to70
207	ALL	354273.1	3792643	3.87E-07	6.5YrCancerDerived_Inh_FAH16to70
367	ALL	354398.1	3792768	3.86E-07	6.5YrCancerDerived_Inh_FAH16to70
1495	ALL	353315.5	3792860	3.86E-07	6.5YrCancerDerived_Inh_FAH16to70
272	ALL	354348.1	3792693	3.86E-07	6.5YrCancerDerived_Inh_FAH16to70
399	ALL	354423.1	3792793	3.86E-07	6.5YrCancerDerived_Inh_FAH16to70
77	ALL	354123.1	3792543	3.86E-07	6.5YrCancerDerived_Inh_FAH16to70
1353	ALL	353390.5	3792735	3.85E-07	6.5YrCancerDerived_Inh_FAH16to70
1666	ALL	353240.5	3793010	3.84E-07	6.5YrCancerDerived_Inh_FAH16to70
1240	ALL	353465.5	3792635	3.84E-07	6.5YrCancerDerived_Inh_FAH16to70
1901	ALL	353165.5	3793210	3.84E-07	6.5YrCancerDerived_Inh_FAH16to70
431	ALL	354448.1	3792818	3.84E-07	6.5YrCancerDerived_Inh_FAH16to70
240	ALL	354323.1	3792668	3.82E-07	6.5YrCancerDerived_Inh_FAH16to70
1723	ALL	353215.5	3793060	3.82E-07	6.5YrCancerDerived_Inh_FAH16to70
110	ALL	354173.1	3792568	3.82E-07	6.5YrCancerDerived_Inh_FAH16to70
1438	ALL	353340.5	3792810	3.82E-07	6.5YrCancerDerived_Inh_FAH16to70
463	ALL	354473.1	3792843	3.81E-07	6.5YrCancerDerived_Inh_FAH16to70
12	ALL	354048.1	3792493	3.81E-07	6.5YrCancerDerived_Inh_FAH16to70
1812	ALL	353190.5	3793135	3.81E-07	6.5YrCancerDerived_Inh_FAH16to70
304	ALL	354373.1	3792718	3.81E-07	6.5YrCancerDerived_Inh_FAH16to70
1268	ALL	353440.5	3792660	3.80E-07	6.5YrCancerDerived_Inh_FAH16to70

495	ALL	354498.1	3792868	3.80E-07	6.5YrCancerDerived_Inh_FAH16to70
45	ALL	354098.1	3792518	3.79E-07	6.5YrCancerDerived_Inh_FAH16to70
527	ALL	354523.1	3792893	3.79E-07	6.5YrCancerDerived_Inh_FAH16to70
175	ALL	354248.1	3792618	3.78E-07	6.5YrCancerDerived_Inh_FAH16to70
1580	ALL	353265.5	3792935	3.78E-07	6.5YrCancerDerived_Inh_FAH16to70
1871	ALL	353165.5	3793185	3.77E-07	6.5YrCancerDerived_Inh_FAH16to70
1381	ALL	353365.5	3792760	3.76E-07	6.5YrCancerDerived_Inh_FAH16to70
143	ALL	354223.1	3792593	3.76E-07	6.5YrCancerDerived_Inh_FAH16to70
1296	ALL	353415.5	3792685	3.75E-07	6.5YrCancerDerived_Inh_FAH16to70
1637	ALL	353240.5	3792985	3.75E-07	6.5YrCancerDerived_Inh_FAH16to70
1782	ALL	353190.5	3793110	3.75E-07	6.5YrCancerDerived_Inh_FAH16to70
78	ALL	354148.1	3792543	3.75E-07	6.5YrCancerDerived_Inh_FAH16to70
1466	ALL	353315.5	3792835	3.74E-07	6.5YrCancerDerived_Inh_FAH16to70
1523	ALL	353290.5	3792885	3.74E-07	6.5YrCancerDerived_Inh_FAH16to70
1694	ALL	353215.5	3793035	3.74E-07	6.5YrCancerDerived_Inh_FAH16to70
336	ALL	354398.1	3792743	3.73E-07	6.5YrCancerDerived_Inh_FAH16to70
208	ALL	354298.1	3792643	3.73E-07	6.5YrCancerDerived_Inh_FAH16to70
368	ALL	354423.1	3792768	3.73E-07	6.5YrCancerDerived_Inh_FAH16to70
400	ALL	354448.1	3792793	3.72E-07	6.5YrCancerDerived_Inh_FAH16to70
13	ALL	354073.1	3792493	3.72E-07	6.5YrCancerDerived_Inh_FAH16to70
111	ALL	354198.1	3792568	3.71E-07	6.5YrCancerDerived_Inh_FAH16to70
1324	ALL	353390.5	3792710	3.70E-07	6.5YrCancerDerived_Inh_FAH16to70
1841	ALL	353165.5	3793160	3.70E-07	6.5YrCancerDerived_Inh_FAH16to70
1752	ALL	353190.5	3793085	3.70E-07	6.5YrCancerDerived_Inh_FAH16to70
1155	ALL	353515.5	3792560	3.69E-07	6.5YrCancerDerived_Inh_FAH16to70
1127	ALL	353540.5	3792535	3.69E-07	6.5YrCancerDerived_Inh_FAH16to70
1409	ALL	353340.5	3792785	3.69E-07	6.5YrCancerDerived_Inh_FAH16to70
1551	ALL	353265.5	3792910	3.69E-07	6.5YrCancerDerived_Inh_FAH16to70
46	ALL	354123.1	3792518	3.69E-07	6.5YrCancerDerived_Inh_FAH16to70
432	ALL	354473.1	3792818	3.69E-07	6.5YrCancerDerived_Inh_FAH16to70
241	ALL	354348.1	3792668	3.69E-07	6.5YrCancerDerived_Inh_FAH16to70
1099	ALL	353565.5	3792510	3.69E-07	6.5YrCancerDerived_Inh_FAH16to70
1183	ALL	353490.5	3792585	3.68E-07	6.5YrCancerDerived_Inh_FAH16to70
1608	ALL	353240.5	3792960	3.67E-07	6.5YrCancerDerived_Inh_FAH16to70
464	ALL	354498.1	3792843	3.67E-07	6.5YrCancerDerived_Inh_FAH16to70
176	ALL	354273.1	3792618	3.67E-07	6.5YrCancerDerived_Inh_FAH16to70
496	ALL	354523.1	3792868	3.67E-07	6.5YrCancerDerived_Inh_FAH16to70
1211	ALL	353465.5	3792610	3.66E-07	6.5YrCancerDerived_Inh_FAH16to70
1900	ALL	353140.5	3793210	3.66E-07	6.5YrCancerDerived_Inh_FAH16to70
79	ALL	354173.1	3792543	3.66E-07	6.5YrCancerDerived_Inh_FAH16to70
144	ALL	354248.1	3792593	3.65E-07	6.5YrCancerDerived_Inh_FAH16to70
1665	ALL	353215.5	3793010	3.65E-07	6.5YrCancerDerived_Inh_FAH16to70
1494	ALL	353290.5	3792860	3.64E-07	6.5YrCancerDerived_Inh_FAH16to70
273	ALL	354373.1	3792693	3.64E-07	6.5YrCancerDerived_Inh_FAH16to70
1352	ALL	353365.5	3792735	3.63E-07	6.5YrCancerDerived_Inh_FAH16to70
1239	ALL	353440.5	3792635	3.63E-07	6.5YrCancerDerived_Inh_FAH16to70
1722	ALL	353190.5	3793060	3.63E-07	6.5YrCancerDerived_Inh_FAH16to70

1811	ALL	353165.5	3793135	3.63E-07	6.5YrCancerDerived_Inh_FAH16to70
1437	ALL	353315.5	3792810	3.63E-07	6.5YrCancerDerived_Inh_FAH16to70
14	ALL	354098.1	3792493	3.63E-07	6.5YrCancerDerived_Inh_FAH16to70
209	ALL	354323.1	3792643	3.63E-07	6.5YrCancerDerived_Inh_FAH16to70
337	ALL	354423.1	3792743	3.61E-07	6.5YrCancerDerived_Inh_FAH16to70
305	ALL	354398.1	3792718	3.61E-07	6.5YrCancerDerived_Inh_FAH16to70
112	ALL	354223.1	3792568	3.60E-07	6.5YrCancerDerived_Inh_FAH16to70
369	ALL	354448.1	3792768	3.60E-07	6.5YrCancerDerived_Inh_FAH16to70
1267	ALL	353415.5	3792660	3.60E-07	6.5YrCancerDerived_Inh_FAH16to70
1870	ALL	353140.5	3793185	3.59E-07	6.5YrCancerDerived_Inh_FAH16to70
47	ALL	354148.1	3792518	3.59E-07	6.5YrCancerDerived_Inh_FAH16to70
1522	ALL	353265.5	3792885	3.59E-07	6.5YrCancerDerived_Inh_FAH16to70
1579	ALL	353240.5	3792935	3.59E-07	6.5YrCancerDerived_Inh_FAH16to70
1781	ALL	353165.5	3793110	3.58E-07	6.5YrCancerDerived_Inh_FAH16to70
401	ALL	354473.1	3792793	3.57E-07	6.5YrCancerDerived_Inh_FAH16to70
1380	ALL	353340.5	3792760	3.57E-07	6.5YrCancerDerived_Inh_FAH16to70
1636	ALL	353215.5	3792985	3.57E-07	6.5YrCancerDerived_Inh_FAH16to70
177	ALL	354298.1	3792618	3.56E-07	6.5YrCancerDerived_Inh_FAH16to70
1693	ALL	353190.5	3793035	3.56E-07	6.5YrCancerDerived_Inh_FAH16to70
1295	ALL	353390.5	3792685	3.55E-07	6.5YrCancerDerived_Inh_FAH16to70
433	ALL	354498.1	3792818	3.55E-07	6.5YrCancerDerived_Inh_FAH16to70
80	ALL	354198.1	3792543	3.55E-07	6.5YrCancerDerived_Inh_FAH16to70
1465	ALL	353290.5	3792835	3.55E-07	6.5YrCancerDerived_Inh_FAH16to70
145	ALL	354273.1	3792593	3.54E-07	6.5YrCancerDerived_Inh_FAH16to70
465	ALL	354523.1	3792843	3.54E-07	6.5YrCancerDerived_Inh_FAH16to70
15	ALL	354123.1	3792493	3.53E-07	6.5YrCancerDerived_Inh_FAH16to70
1840	ALL	353140.5	3793160	3.53E-07	6.5YrCancerDerived_Inh_FAH16to70
1751	ALL	353165.5	3793085	3.52E-07	6.5YrCancerDerived_Inh_FAH16to70
210	ALL	354348.1	3792643	3.51E-07	6.5YrCancerDerived_Inh_FAH16to70
1408	ALL	353315.5	3792785	3.51E-07	6.5YrCancerDerived_Inh_FAH16to70
1126	ALL	353515.5	3792535	3.51E-07	6.5YrCancerDerived_Inh_FAH16to70
1550	ALL	353240.5	3792910	3.51E-07	6.5YrCancerDerived_Inh_FAH16to70
48	ALL	354173.1	3792518	3.50E-07	6.5YrCancerDerived_Inh_FAH16to70
1154	ALL	353490.5	3792560	3.50E-07	6.5YrCancerDerived_Inh_FAH16to70
1323	ALL	353365.5	3792710	3.50E-07	6.5YrCancerDerived_Inh_FAH16to70
242	ALL	354373.1	3792668	3.50E-07	6.5YrCancerDerived_Inh_FAH16to70
113	ALL	354248.1	3792568	3.50E-07	6.5YrCancerDerived_Inh_FAH16to70
1098	ALL	353540.5	3792510	3.50E-07	6.5YrCancerDerived_Inh_FAH16to70
306	ALL	354423.1	3792718	3.50E-07	6.5YrCancerDerived_Inh_FAH16to70
1182	ALL	353465.5	3792585	3.49E-07	6.5YrCancerDerived_Inh_FAH16to70
1899	ALL	353115.5	3793210	3.49E-07	6.5YrCancerDerived_Inh_FAH16to70
1607	ALL	353215.5	3792960	3.49E-07	6.5YrCancerDerived_Inh_FAH16to70
274	ALL	354398.1	3792693	3.48E-07	6.5YrCancerDerived_Inh_FAH16to70
338	ALL	354448.1	3792743	3.48E-07	6.5YrCancerDerived_Inh_FAH16to70
1210	ALL	353440.5	3792610	3.48E-07	6.5YrCancerDerived_Inh_FAH16to70
1664	ALL	353190.5	3793010	3.48E-07	6.5YrCancerDerived_Inh_FAH16to70
1810	ALL	353140.5	3793135	3.46E-07	6.5YrCancerDerived_Inh_FAH16to70

178	ALL	354323.1	3792618	3.46E-07	6.5YrCancerDerived_Inh_FAH16to70
370	ALL	354473.1	3792768	3.46E-07	6.5YrCancerDerived_Inh_FAH16to70
1721	ALL	353165.5	3793060	3.46E-07	6.5YrCancerDerived_Inh_FAH16to70
81	ALL	354223.1	3792543	3.46E-07	6.5YrCancerDerived_Inh_FAH16to70
1493	ALL	353265.5	3792860	3.45E-07	6.5YrCancerDerived_Inh_FAH16to70
1436	ALL	353290.5	3792810	3.45E-07	6.5YrCancerDerived_Inh_FAH16to70
1238	ALL	353415.5	3792635	3.45E-07	6.5YrCancerDerived_Inh_FAH16to70
146	ALL	354298.1	3792593	3.45E-07	6.5YrCancerDerived_Inh_FAH16to70
1351	ALL	353340.5	3792735	3.44E-07	6.5YrCancerDerived_Inh_FAH16to70
402	ALL	354498.1	3792793	3.44E-07	6.5YrCancerDerived_Inh_FAH16to70
16	ALL	354148.1	3792493	3.44E-07	6.5YrCancerDerived_Inh_FAH16to70
434	ALL	354523.1	3792818	3.44E-07	6.5YrCancerDerived_Inh_FAH16to70
1869	ALL	353115.5	3793185	3.43E-07	6.5YrCancerDerived_Inh_FAH16to70
1521	ALL	353240.5	3792885	3.42E-07	6.5YrCancerDerived_Inh_FAH16to70
1266	ALL	353390.5	3792660	3.41E-07	6.5YrCancerDerived_Inh_FAH16to70
49	ALL	354198.1	3792518	3.41E-07	6.5YrCancerDerived_Inh_FAH16to70
1578	ALL	353215.5	3792935	3.41E-07	6.5YrCancerDerived_Inh_FAH16to70
1780	ALL	353140.5	3793110	3.41E-07	6.5YrCancerDerived_Inh_FAH16to70
114	ALL	354273.1	3792568	3.40E-07	6.5YrCancerDerived_Inh_FAH16to70
1635	ALL	353190.5	3792985	3.40E-07	6.5YrCancerDerived_Inh_FAH16to70
1379	ALL	353315.5	3792760	3.40E-07	6.5YrCancerDerived_Inh_FAH16to70
1692	ALL	353165.5	3793035	3.39E-07	6.5YrCancerDerived_Inh_FAH16to70
275	ALL	354423.1	3792693	3.38E-07	6.5YrCancerDerived_Inh_FAH16to70
211	ALL	354373.1	3792643	3.38E-07	6.5YrCancerDerived_Inh_FAH16to70
307	ALL	354448.1	3792718	3.37E-07	6.5YrCancerDerived_Inh_FAH16to70
1294	ALL	353365.5	3792685	3.37E-07	6.5YrCancerDerived_Inh_FAH16to70
1839	ALL	353115.5	3793160	3.37E-07	6.5YrCancerDerived_Inh_FAH16to70
17	ALL	354173.1	3792493	3.36E-07	6.5YrCancerDerived_Inh_FAH16to70
243	ALL	354398.1	3792668	3.36E-07	6.5YrCancerDerived_Inh_FAH16to70
1464	ALL	353265.5	3792835	3.36E-07	6.5YrCancerDerived_Inh_FAH16to70
82	ALL	354248.1	3792543	3.36E-07	6.5YrCancerDerived_Inh_FAH16to70
179	ALL	354348.1	3792618	3.36E-07	6.5YrCancerDerived_Inh_FAH16to70
339	ALL	354473.1	3792743	3.35E-07	6.5YrCancerDerived_Inh_FAH16to70
1750	ALL	353140.5	3793085	3.35E-07	6.5YrCancerDerived_Inh_FAH16to70
147	ALL	354323.1	3792593	3.35E-07	6.5YrCancerDerived_Inh_FAH16to70
1407	ALL	353290.5	3792785	3.34E-07	6.5YrCancerDerived_Inh_FAH16to70
1125	ALL	353490.5	3792535	3.34E-07	6.5YrCancerDerived_Inh_FAH16to70
403	ALL	354523.1	3792793	3.34E-07	6.5YrCancerDerived_Inh_FAH16to70
1898	ALL	353090.5	3793210	3.33E-07	6.5YrCancerDerived_Inh_FAH16to70
1549	ALL	353215.5	3792910	3.33E-07	6.5YrCancerDerived_Inh_FAH16to70
1153	ALL	353465.5	3792560	3.33E-07	6.5YrCancerDerived_Inh_FAH16to70
1097	ALL	353515.5	3792510	3.33E-07	6.5YrCancerDerived_Inh_FAH16to70
371	ALL	354498.1	3792768	3.33E-07	6.5YrCancerDerived_Inh_FAH16to70
1322	ALL	353340.5	3792710	3.33E-07	6.5YrCancerDerived_Inh_FAH16to70
1492	ALL	353240.5	3792860	3.33E-07	6.5YrCancerDerived_Inh_FAH16to70
1181	ALL	353440.5	3792585	3.32E-07	6.5YrCancerDerived_Inh_FAH16to70
1606	ALL	353190.5	3792960	3.32E-07	6.5YrCancerDerived_Inh_FAH16to70

50	ALL	354223.1	3792518	3.32E-07	6.5YrCancerDerived_Inh_FAH16to70
1663	ALL	353165.5	3793010	3.31E-07	6.5YrCancerDerived_Inh_FAH16to70
1209	ALL	353415.5	3792610	3.31E-07	6.5YrCancerDerived_Inh_FAH16to70
115	ALL	354298.1	3792568	3.31E-07	6.5YrCancerDerived_Inh_FAH16to70
1809	ALL	353115.5	3793135	3.31E-07	6.5YrCancerDerived_Inh_FAH16to70
1720	ALL	353140.5	3793060	3.29E-07	6.5YrCancerDerived_Inh_FAH16to70
1350	ALL	353315.5	3792735	3.28E-07	6.5YrCancerDerived_Inh_FAH16to70
18	ALL	354198.1	3792493	3.28E-07	6.5YrCancerDerived_Inh_FAH16to70
1868	ALL	353090.5	3793185	3.28E-07	6.5YrCancerDerived_Inh_FAH16to70
1435	ALL	353265.5	3792810	3.28E-07	6.5YrCancerDerived_Inh_FAH16to70
1237	ALL	353390.5	3792635	3.28E-07	6.5YrCancerDerived_Inh_FAH16to70
276	ALL	354448.1	3792693	3.27E-07	6.5YrCancerDerived_Inh_FAH16to70
244	ALL	354423.1	3792668	3.27E-07	6.5YrCancerDerived_Inh_FAH16to70
83	ALL	354273.1	3792543	3.27E-07	6.5YrCancerDerived_Inh_FAH16to70
1520	ALL	353215.5	3792885	3.26E-07	6.5YrCancerDerived_Inh_FAH16to70
1779	ALL	353115.5	3793110	3.25E-07	6.5YrCancerDerived_Inh_FAH16to70
1577	ALL	353190.5	3792935	3.25E-07	6.5YrCancerDerived_Inh_FAH16to70
180	ALL	354373.1	3792618	3.25E-07	6.5YrCancerDerived_Inh_FAH16to70
212	ALL	354398.1	3792643	3.25E-07	6.5YrCancerDerived_Inh_FAH16to70
1265	ALL	353365.5	3792660	3.25E-07	6.5YrCancerDerived_Inh_FAH16to70
148	ALL	354348.1	3792593	3.24E-07	6.5YrCancerDerived_Inh_FAH16to70
308	ALL	354473.1	3792718	3.24E-07	6.5YrCancerDerived_Inh_FAH16to70
1634	ALL	353165.5	3792985	3.24E-07	6.5YrCancerDerived_Inh_FAH16to70
1378	ALL	353290.5	3792760	3.24E-07	6.5YrCancerDerived_Inh_FAH16to70
372	ALL	354523.1	3792768	3.23E-07	6.5YrCancerDerived_Inh_FAH16to70
51	ALL	354248.1	3792518	3.23E-07	6.5YrCancerDerived_Inh_FAH16to70
1691	ALL	353140.5	3793035	3.23E-07	6.5YrCancerDerived_Inh_FAH16to70
340	ALL	354498.1	3792743	3.22E-07	6.5YrCancerDerived_Inh_FAH16to70
1838	ALL	353090.5	3793160	3.22E-07	6.5YrCancerDerived_Inh_FAH16to70
116	ALL	354323.1	3792568	3.21E-07	6.5YrCancerDerived_Inh_FAH16to70
1293	ALL	353340.5	3792685	3.21E-07	6.5YrCancerDerived_Inh_FAH16to70
19	ALL	354223.1	3792493	3.20E-07	6.5YrCancerDerived_Inh_FAH16to70
1463	ALL	353240.5	3792835	3.20E-07	6.5YrCancerDerived_Inh_FAH16to70
1749	ALL	353115.5	3793085	3.20E-07	6.5YrCancerDerived_Inh_FAH16to70
1897	ALL	353065.5	3793210	3.19E-07	6.5YrCancerDerived_Inh_FAH16to70
1406	ALL	353265.5	3792785	3.19E-07	6.5YrCancerDerived_Inh_FAH16to70
1124	ALL	353465.5	3792535	3.18E-07	6.5YrCancerDerived_Inh_FAH16to70
1096	ALL	353490.5	3792510	3.18E-07	6.5YrCancerDerived_Inh_FAH16to70
1152	ALL	353440.5	3792560	3.18E-07	6.5YrCancerDerived_Inh_FAH16to70
1548	ALL	353190.5	3792910	3.18E-07	6.5YrCancerDerived_Inh_FAH16to70
1321	ALL	353315.5	3792710	3.18E-07	6.5YrCancerDerived_Inh_FAH16to70
1605	ALL	353165.5	3792960	3.18E-07	6.5YrCancerDerived_Inh_FAH16to70
84	ALL	354298.1	3792543	3.18E-07	6.5YrCancerDerived_Inh_FAH16to70
1491	ALL	353215.5	3792860	3.17E-07	6.5YrCancerDerived_Inh_FAH16to70
1180	ALL	353415.5	3792585	3.17E-07	6.5YrCancerDerived_Inh_FAH16to70
1662	ALL	353140.5	3793010	3.16E-07	6.5YrCancerDerived_Inh_FAH16to70
1808	ALL	353090.5	3793135	3.16E-07	6.5YrCancerDerived_Inh_FAH16to70

245	ALL	354448.1	3792668	3.16E-07	6.5YrCancerDerived_Inh_FAH16to70
1208	ALL	353390.5	3792610	3.15E-07	6.5YrCancerDerived_Inh_FAH16to70
52	ALL	354273.1	3792518	3.15E-07	6.5YrCancerDerived_Inh_FAH16to70
277	ALL	354473.1	3792693	3.15E-07	6.5YrCancerDerived_Inh_FAH16to70
149	ALL	354373.1	3792593	3.15E-07	6.5YrCancerDerived_Inh_FAH16to70
213	ALL	354423.1	3792643	3.15E-07	6.5YrCancerDerived_Inh_FAH16to70
181	ALL	354398.1	3792618	3.14E-07	6.5YrCancerDerived_Inh_FAH16to70
1719	ALL	353115.5	3793060	3.14E-07	6.5YrCancerDerived_Inh_FAH16to70
1867	ALL	353065.5	3793185	3.14E-07	6.5YrCancerDerived_Inh_FAH16to70
1349	ALL	353290.5	3792735	3.13E-07	6.5YrCancerDerived_Inh_FAH16to70
341	ALL	354523.1	3792743	3.13E-07	6.5YrCancerDerived_Inh_FAH16to70
117	ALL	354348.1	3792568	3.12E-07	6.5YrCancerDerived_Inh_FAH16to70
1236	ALL	353365.5	3792635	3.12E-07	6.5YrCancerDerived_Inh_FAH16to70
20	ALL	354248.1	3792493	3.12E-07	6.5YrCancerDerived_Inh_FAH16to70
1778	ALL	353090.5	3793110	3.12E-07	6.5YrCancerDerived_Inh_FAH16to70
309	ALL	354498.1	3792718	3.12E-07	6.5YrCancerDerived_Inh_FAH16to70
1576	ALL	353165.5	3792935	3.11E-07	6.5YrCancerDerived_Inh_FAH16to70
1434	ALL	353240.5	3792810	3.11E-07	6.5YrCancerDerived_Inh_FAH16to70
1519	ALL	353190.5	3792885	3.11E-07	6.5YrCancerDerived_Inh_FAH16to70
1633	ALL	353140.5	3792985	3.10E-07	6.5YrCancerDerived_Inh_FAH16to70
1264	ALL	353340.5	3792660	3.09E-07	6.5YrCancerDerived_Inh_FAH16to70
1377	ALL	353265.5	3792760	3.09E-07	6.5YrCancerDerived_Inh_FAH16to70
85	ALL	354323.1	3792543	3.09E-07	6.5YrCancerDerived_Inh_FAH16to70
1462	ALL	353215.5	3792835	3.08E-07	6.5YrCancerDerived_Inh_FAH16to70
1690	ALL	353115.5	3793035	3.08E-07	6.5YrCancerDerived_Inh_FAH16to70
1837	ALL	353065.5	3793160	3.08E-07	6.5YrCancerDerived_Inh_FAH16to70
1292	ALL	353315.5	3792685	3.07E-07	6.5YrCancerDerived_Inh_FAH16to70
1748	ALL	353090.5	3793085	3.06E-07	6.5YrCancerDerived_Inh_FAH16to70
53	ALL	354298.1	3792518	3.06E-07	6.5YrCancerDerived_Inh_FAH16to70
1896	ALL	353040.5	3793210	3.05E-07	6.5YrCancerDerived_Inh_FAH16to70
150	ALL	354398.1	3792593	3.05E-07	6.5YrCancerDerived_Inh_FAH16to70
246	ALL	354473.1	3792668	3.05E-07	6.5YrCancerDerived_Inh_FAH16to70
1123	ALL	353440.5	3792535	3.05E-07	6.5YrCancerDerived_Inh_FAH16to70
1547	ALL	353165.5	3792910	3.05E-07	6.5YrCancerDerived_Inh_FAH16to70
1095	ALL	353465.5	3792510	3.04E-07	6.5YrCancerDerived_Inh_FAH16to70
1151	ALL	353415.5	3792560	3.04E-07	6.5YrCancerDerived_Inh_FAH16to70
21	ALL	354273.1	3792493	3.04E-07	6.5YrCancerDerived_Inh_FAH16to70
214	ALL	354448.1	3792643	3.04E-07	6.5YrCancerDerived_Inh_FAH16to70
1490	ALL	353190.5	3792860	3.04E-07	6.5YrCancerDerived_Inh_FAH16to70
1604	ALL	353140.5	3792960	3.04E-07	6.5YrCancerDerived_Inh_FAH16to70
310	ALL	354523.1	3792718	3.04E-07	6.5YrCancerDerived_Inh_FAH16to70
1320	ALL	353290.5	3792710	3.03E-07	6.5YrCancerDerived_Inh_FAH16to70
182	ALL	354423.1	3792618	3.03E-07	6.5YrCancerDerived_Inh_FAH16to70
1405	ALL	353240.5	3792785	3.03E-07	6.5YrCancerDerived_Inh_FAH16to70
118	ALL	354373.1	3792568	3.03E-07	6.5YrCancerDerived_Inh_FAH16to70
1179	ALL	353390.5	3792585	3.03E-07	6.5YrCancerDerived_Inh_FAH16to70
1807	ALL	353065.5	3793135	3.03E-07	6.5YrCancerDerived_Inh_FAH16to70

1661	ALL	353115.5	3793010	3.02E-07	6.5YrCancerDerived_Inh_FAH16to70
278	ALL	354498.1	3792693	3.02E-07	6.5YrCancerDerived_Inh_FAH16to70
1718	ALL	353090.5	3793060	3.01E-07	6.5YrCancerDerived_Inh_FAH16to70
1207	ALL	353365.5	3792610	3.01E-07	6.5YrCancerDerived_Inh_FAH16to70
1866	ALL	353040.5	3793185	3.00E-07	6.5YrCancerDerived_Inh_FAH16to70
86	ALL	354348.1	3792543	3.00E-07	6.5YrCancerDerived_Inh_FAH16to70
1348	ALL	353265.5	3792735	2.99E-07	6.5YrCancerDerived_Inh_FAH16to70
1777	ALL	353065.5	3793110	2.99E-07	6.5YrCancerDerived_Inh_FAH16to70
1235	ALL	353340.5	3792635	2.98E-07	6.5YrCancerDerived_Inh_FAH16to70
1433	ALL	353215.5	3792810	2.98E-07	6.5YrCancerDerived_Inh_FAH16to70
1518	ALL	353165.5	3792885	2.98E-07	6.5YrCancerDerived_Inh_FAH16to70
1575	ALL	353140.5	3792935	2.98E-07	6.5YrCancerDerived_Inh_FAH16to70
54	ALL	354323.1	3792518	2.98E-07	6.5YrCancerDerived_Inh_FAH16to70
1632	ALL	353115.5	3792985	2.96E-07	6.5YrCancerDerived_Inh_FAH16to70
1263	ALL	353315.5	3792660	2.96E-07	6.5YrCancerDerived_Inh_FAH16to70
1689	ALL	353090.5	3793035	2.96E-07	6.5YrCancerDerived_Inh_FAH16to70
22	ALL	354298.1	3792493	2.96E-07	6.5YrCancerDerived_Inh_FAH16to70
1461	ALL	353190.5	3792835	2.95E-07	6.5YrCancerDerived_Inh_FAH16to70
1836	ALL	353040.5	3793160	2.95E-07	6.5YrCancerDerived_Inh_FAH16to70
1376	ALL	353240.5	3792760	2.95E-07	6.5YrCancerDerived_Inh_FAH16to70
151	ALL	354423.1	3792593	2.94E-07	6.5YrCancerDerived_Inh_FAH16to70
1747	ALL	353065.5	3793085	2.94E-07	6.5YrCancerDerived_Inh_FAH16to70
119	ALL	354398.1	3792568	2.94E-07	6.5YrCancerDerived_Inh_FAH16to70
279	ALL	354523.1	3792693	2.94E-07	6.5YrCancerDerived_Inh_FAH16to70
215	ALL	354473.1	3792643	2.94E-07	6.5YrCancerDerived_Inh_FAH16to70
247	ALL	354498.1	3792668	2.94E-07	6.5YrCancerDerived_Inh_FAH16to70
1291	ALL	353290.5	3792685	2.93E-07	6.5YrCancerDerived_Inh_FAH16to70
183	ALL	354448.1	3792618	2.93E-07	6.5YrCancerDerived_Inh_FAH16to70
1895	ALL	353015.5	3793210	2.93E-07	6.5YrCancerDerived_Inh_FAH16to70
1122	ALL	353415.5	3792535	2.92E-07	6.5YrCancerDerived_Inh_FAH16to70
1094	ALL	353440.5	3792510	2.92E-07	6.5YrCancerDerived_Inh_FAH16to70
1546	ALL	353140.5	3792910	2.91E-07	6.5YrCancerDerived_Inh_FAH16to70
1150	ALL	353390.5	3792560	2.91E-07	6.5YrCancerDerived_Inh_FAH16to70
87	ALL	354373.1	3792543	2.91E-07	6.5YrCancerDerived_Inh_FAH16to70
1489	ALL	353165.5	3792860	2.91E-07	6.5YrCancerDerived_Inh_FAH16to70
1603	ALL	353115.5	3792960	2.91E-07	6.5YrCancerDerived_Inh_FAH16to70
1806	ALL	353040.5	3793135	2.90E-07	6.5YrCancerDerived_Inh_FAH16to70
1319	ALL	353265.5	3792710	2.90E-07	6.5YrCancerDerived_Inh_FAH16to70
1660	ALL	353090.5	3793010	2.90E-07	6.5YrCancerDerived_Inh_FAH16to70
1178	ALL	353365.5	3792585	2.90E-07	6.5YrCancerDerived_Inh_FAH16to70
1717	ALL	353065.5	3793060	2.89E-07	6.5YrCancerDerived_Inh_FAH16to70
1404	ALL	353215.5	3792785	2.89E-07	6.5YrCancerDerived_Inh_FAH16to70
55	ALL	354348.1	3792518	2.89E-07	6.5YrCancerDerived_Inh_FAH16to70
1206	ALL	353340.5	3792610	2.88E-07	6.5YrCancerDerived_Inh_FAH16to70
1865	ALL	353015.5	3793185	2.88E-07	6.5YrCancerDerived_Inh_FAH16to70
23	ALL	354323.1	3792493	2.87E-07	6.5YrCancerDerived_Inh_FAH16to70
1432	ALL	353190.5	3792810	2.87E-07	6.5YrCancerDerived_Inh_FAH16to70

1776	ALL	353040.5	3793110	2.87E-07	6.5YrCancerDerived_Inh_FAH16to70
1347	ALL	353240.5	3792735	2.86E-07	6.5YrCancerDerived_Inh_FAH16to70
1234	ALL	353315.5	3792635	2.86E-07	6.5YrCancerDerived_Inh_FAH16to70
152	ALL	354448.1	3792593	2.86E-07	6.5YrCancerDerived_Inh_FAH16to70
1517	ALL	353140.5	3792885	2.85E-07	6.5YrCancerDerived_Inh_FAH16to70
120	ALL	354423.1	3792568	2.85E-07	6.5YrCancerDerived_Inh_FAH16to70
248	ALL	354523.1	3792668	2.85E-07	6.5YrCancerDerived_Inh_FAH16to70
1574	ALL	353115.5	3792935	2.85E-07	6.5YrCancerDerived_Inh_FAH16to70
216	ALL	354498.1	3792643	2.85E-07	6.5YrCancerDerived_Inh_FAH16to70
1688	ALL	353065.5	3793035	2.84E-07	6.5YrCancerDerived_Inh_FAH16to70
1631	ALL	353090.5	3792985	2.84E-07	6.5YrCancerDerived_Inh_FAH16to70
184	ALL	354473.1	3792618	2.84E-07	6.5YrCancerDerived_Inh_FAH16to70
1262	ALL	353290.5	3792660	2.84E-07	6.5YrCancerDerived_Inh_FAH16to70
1835	ALL	353015.5	3793160	2.83E-07	6.5YrCancerDerived_Inh_FAH16to70
88	ALL	354398.1	3792543	2.83E-07	6.5YrCancerDerived_Inh_FAH16to70
1460	ALL	353165.5	3792835	2.83E-07	6.5YrCancerDerived_Inh_FAH16to70
1746	ALL	353040.5	3793085	2.82E-07	6.5YrCancerDerived_Inh_FAH16to70
1375	ALL	353215.5	3792760	2.82E-07	6.5YrCancerDerived_Inh_FAH16to70
1290	ALL	353265.5	3792685	2.81E-07	6.5YrCancerDerived_Inh_FAH16to70
56	ALL	354373.1	3792518	2.81E-07	6.5YrCancerDerived_Inh_FAH16to70
1093	ALL	353415.5	3792510	2.80E-07	6.5YrCancerDerived_Inh_FAH16to70
1121	ALL	353390.5	3792535	2.80E-07	6.5YrCancerDerived_Inh_FAH16to70
1545	ALL	353115.5	3792910	2.79E-07	6.5YrCancerDerived_Inh_FAH16to70
1403	ALL	353190.5	3792785	2.79E-07	6.5YrCancerDerived_Inh_FAH16to70
1149	ALL	353365.5	3792560	2.79E-07	6.5YrCancerDerived_Inh_FAH16to70
24	ALL	354348.1	3792493	2.79E-07	6.5YrCancerDerived_Inh_FAH16to70
1602	ALL	353090.5	3792960	2.79E-07	6.5YrCancerDerived_Inh_FAH16to70
1805	ALL	353015.5	3793135	2.78E-07	6.5YrCancerDerived_Inh_FAH16to70
1488	ALL	353140.5	3792860	2.78E-07	6.5YrCancerDerived_Inh_FAH16to70
1659	ALL	353065.5	3793010	2.78E-07	6.5YrCancerDerived_Inh_FAH16to70
1318	ALL	353240.5	3792710	2.78E-07	6.5YrCancerDerived_Inh_FAH16to70
1177	ALL	353340.5	3792585	2.78E-07	6.5YrCancerDerived_Inh_FAH16to70
1716	ALL	353040.5	3793060	2.78E-07	6.5YrCancerDerived_Inh_FAH16to70
121	ALL	354448.1	3792568	2.77E-07	6.5YrCancerDerived_Inh_FAH16to70
1205	ALL	353315.5	3792610	2.77E-07	6.5YrCancerDerived_Inh_FAH16to70
217	ALL	354523.1	3792643	2.76E-07	6.5YrCancerDerived_Inh_FAH16to70
153	ALL	354473.1	3792593	2.76E-07	6.5YrCancerDerived_Inh_FAH16to70
1431	ALL	353165.5	3792810	2.75E-07	6.5YrCancerDerived_Inh_FAH16to70
185	ALL	354498.1	3792618	2.75E-07	6.5YrCancerDerived_Inh_FAH16to70
1775	ALL	353015.5	3793110	2.75E-07	6.5YrCancerDerived_Inh_FAH16to70
89	ALL	354423.1	3792543	2.75E-07	6.5YrCancerDerived_Inh_FAH16to70
1233	ALL	353290.5	3792635	2.74E-07	6.5YrCancerDerived_Inh_FAH16to70
57	ALL	354398.1	3792518	2.73E-07	6.5YrCancerDerived_Inh_FAH16to70
1346	ALL	353215.5	3792735	2.73E-07	6.5YrCancerDerived_Inh_FAH16to70
1516	ALL	353115.5	3792885	2.73E-07	6.5YrCancerDerived_Inh_FAH16to70
1573	ALL	353090.5	3792935	2.73E-07	6.5YrCancerDerived_Inh_FAH16to70
1687	ALL	353040.5	3793035	2.72E-07	6.5YrCancerDerived_Inh_FAH16to70

25	ALL	354373.1	3792493	2.72E-07	6.5YrCancerDerived_Inh_FAH16to70
1630	ALL	353065.5	3792985	2.72E-07	6.5YrCancerDerived_Inh_FAH16to70
1261	ALL	353265.5	3792660	2.72E-07	6.5YrCancerDerived_Inh_FAH16to70
1459	ALL	353140.5	3792835	2.71E-07	6.5YrCancerDerived_Inh_FAH16to70
1745	ALL	353015.5	3793085	2.71E-07	6.5YrCancerDerived_Inh_FAH16to70
1374	ALL	353190.5	3792760	2.70E-07	6.5YrCancerDerived_Inh_FAH16to70
1289	ALL	353240.5	3792685	2.70E-07	6.5YrCancerDerived_Inh_FAH16to70
1092	ALL	353390.5	3792510	2.69E-07	6.5YrCancerDerived_Inh_FAH16to70
1120	ALL	353365.5	3792535	2.69E-07	6.5YrCancerDerived_Inh_FAH16to70
1402	ALL	353165.5	3792785	2.68E-07	6.5YrCancerDerived_Inh_FAH16to70
1148	ALL	353340.5	3792560	2.68E-07	6.5YrCancerDerived_Inh_FAH16to70
122	ALL	354473.1	3792568	2.68E-07	6.5YrCancerDerived_Inh_FAH16to70
154	ALL	354498.1	3792593	2.68E-07	6.5YrCancerDerived_Inh_FAH16to70
1544	ALL	353090.5	3792910	2.67E-07	6.5YrCancerDerived_Inh_FAH16to70
1176	ALL	353315.5	3792585	2.67E-07	6.5YrCancerDerived_Inh_FAH16to70
90	ALL	354448.1	3792543	2.67E-07	6.5YrCancerDerived_Inh_FAH16to70
1601	ALL	353065.5	3792960	2.67E-07	6.5YrCancerDerived_Inh_FAH16to70
186	ALL	354523.1	3792618	2.67E-07	6.5YrCancerDerived_Inh_FAH16to70
1658	ALL	353040.5	3793010	2.67E-07	6.5YrCancerDerived_Inh_FAH16to70
1715	ALL	353015.5	3793060	2.67E-07	6.5YrCancerDerived_Inh_FAH16to70
1487	ALL	353115.5	3792860	2.66E-07	6.5YrCancerDerived_Inh_FAH16to70
58	ALL	354423.1	3792518	2.66E-07	6.5YrCancerDerived_Inh_FAH16to70
1204	ALL	353290.5	3792610	2.66E-07	6.5YrCancerDerived_Inh_FAH16to70
1317	ALL	353215.5	3792710	2.65E-07	6.5YrCancerDerived_Inh_FAH16to70
26	ALL	354398.1	3792493	2.65E-07	6.5YrCancerDerived_Inh_FAH16to70
1430	ALL	353140.5	3792810	2.64E-07	6.5YrCancerDerived_Inh_FAH16to70
1232	ALL	353265.5	3792635	2.63E-07	6.5YrCancerDerived_Inh_FAH16to70
1686	ALL	353015.5	3793035	2.62E-07	6.5YrCancerDerived_Inh_FAH16to70
1572	ALL	353065.5	3792935	2.62E-07	6.5YrCancerDerived_Inh_FAH16to70
1515	ALL	353090.5	3792885	2.62E-07	6.5YrCancerDerived_Inh_FAH16to70
1629	ALL	353040.5	3792985	2.62E-07	6.5YrCancerDerived_Inh_FAH16to70
1260	ALL	353240.5	3792660	2.61E-07	6.5YrCancerDerived_Inh_FAH16to70
1373	ALL	353165.5	3792760	2.61E-07	6.5YrCancerDerived_Inh_FAH16to70
1345	ALL	353190.5	3792735	2.60E-07	6.5YrCancerDerived_Inh_FAH16to70
1458	ALL	353115.5	3792835	2.60E-07	6.5YrCancerDerived_Inh_FAH16to70
91	ALL	354473.1	3792543	2.60E-07	6.5YrCancerDerived_Inh_FAH16to70
155	ALL	354523.1	3792593	2.60E-07	6.5YrCancerDerived_Inh_FAH16to70
123	ALL	354498.1	3792568	2.60E-07	6.5YrCancerDerived_Inh_FAH16to70
1091	ALL	353365.5	3792510	2.59E-07	6.5YrCancerDerived_Inh_FAH16to70
59	ALL	354448.1	3792518	2.59E-07	6.5YrCancerDerived_Inh_FAH16to70
1119	ALL	353340.5	3792535	2.58E-07	6.5YrCancerDerived_Inh_FAH16to70
1147	ALL	353315.5	3792560	2.58E-07	6.5YrCancerDerived_Inh_FAH16to70
27	ALL	354423.1	3792493	2.58E-07	6.5YrCancerDerived_Inh_FAH16to70
1288	ALL	353215.5	3792685	2.58E-07	6.5YrCancerDerived_Inh_FAH16to70
1401	ALL	353140.5	3792785	2.57E-07	6.5YrCancerDerived_Inh_FAH16to70
1175	ALL	353290.5	3792585	2.57E-07	6.5YrCancerDerived_Inh_FAH16to70
1600	ALL	353040.5	3792960	2.57E-07	6.5YrCancerDerived_Inh_FAH16to70

1657	ALL	353015.5	3793010	2.57E-07	6.5YrCancerDerived_Inh_FAH16to70
1543	ALL	353065.5	3792910	2.56E-07	6.5YrCancerDerived_Inh_FAH16to70
1486	ALL	353090.5	3792860	2.55E-07	6.5YrCancerDerived_Inh_FAH16to70
1203	ALL	353265.5	3792610	2.55E-07	6.5YrCancerDerived_Inh_FAH16to70
1429	ALL	353115.5	3792810	2.54E-07	6.5YrCancerDerived_Inh_FAH16to70
1344	ALL	353165.5	3792735	2.53E-07	6.5YrCancerDerived_Inh_FAH16to70
1231	ALL	353240.5	3792635	2.53E-07	6.5YrCancerDerived_Inh_FAH16to70
1316	ALL	353190.5	3792710	2.53E-07	6.5YrCancerDerived_Inh_FAH16to70
1571	ALL	353040.5	3792935	2.52E-07	6.5YrCancerDerived_Inh_FAH16to70
124	ALL	354523.1	3792568	2.52E-07	6.5YrCancerDerived_Inh_FAH16to70
60	ALL	354473.1	3792518	2.52E-07	6.5YrCancerDerived_Inh_FAH16to70
92	ALL	354498.1	3792543	2.52E-07	6.5YrCancerDerived_Inh_FAH16to70
28	ALL	354448.1	3792493	2.52E-07	6.5YrCancerDerived_Inh_FAH16to70
1628	ALL	353015.5	3792985	2.51E-07	6.5YrCancerDerived_Inh_FAH16to70
1259	ALL	353215.5	3792660	2.51E-07	6.5YrCancerDerived_Inh_FAH16to70
1514	ALL	353065.5	3792885	2.51E-07	6.5YrCancerDerived_Inh_FAH16to70
1372	ALL	353140.5	3792760	2.51E-07	6.5YrCancerDerived_Inh_FAH16to70
1457	ALL	353090.5	3792835	2.50E-07	6.5YrCancerDerived_Inh_FAH16to70
1118	ALL	353315.5	3792535	2.50E-07	6.5YrCancerDerived_Inh_FAH16to70
1090	ALL	353340.5	3792510	2.50E-07	6.5YrCancerDerived_Inh_FAH16to70
1146	ALL	353290.5	3792560	2.49E-07	6.5YrCancerDerived_Inh_FAH16to70
1174	ALL	353265.5	3792585	2.47E-07	6.5YrCancerDerived_Inh_FAH16to70
1400	ALL	353115.5	3792785	2.47E-07	6.5YrCancerDerived_Inh_FAH16to70
1542	ALL	353040.5	3792910	2.47E-07	6.5YrCancerDerived_Inh_FAH16to70
1599	ALL	353015.5	3792960	2.47E-07	6.5YrCancerDerived_Inh_FAH16to70
1287	ALL	353190.5	3792685	2.47E-07	6.5YrCancerDerived_Inh_FAH16to70
1315	ALL	353165.5	3792710	2.46E-07	6.5YrCancerDerived_Inh_FAH16to70
1202	ALL	353240.5	3792610	2.46E-07	6.5YrCancerDerived_Inh_FAH16to70
93	ALL	354523.1	3792543	2.45E-07	6.5YrCancerDerived_Inh_FAH16to70
1485	ALL	353065.5	3792860	2.45E-07	6.5YrCancerDerived_Inh_FAH16to70
61	ALL	354498.1	3792518	2.45E-07	6.5YrCancerDerived_Inh_FAH16to70
29	ALL	354473.1	3792493	2.45E-07	6.5YrCancerDerived_Inh_FAH16to70
1428	ALL	353090.5	3792810	2.44E-07	6.5YrCancerDerived_Inh_FAH16to70
1230	ALL	353215.5	3792635	2.44E-07	6.5YrCancerDerived_Inh_FAH16to70
1343	ALL	353140.5	3792735	2.44E-07	6.5YrCancerDerived_Inh_FAH16to70
1570	ALL	353015.5	3792935	2.43E-07	6.5YrCancerDerived_Inh_FAH16to70
1513	ALL	353040.5	3792885	2.42E-07	6.5YrCancerDerived_Inh_FAH16to70
1089	ALL	353315.5	3792510	2.41E-07	6.5YrCancerDerived_Inh_FAH16to70
1371	ALL	353115.5	3792760	2.41E-07	6.5YrCancerDerived_Inh_FAH16to70
1117	ALL	353290.5	3792535	2.41E-07	6.5YrCancerDerived_Inh_FAH16to70
1258	ALL	353190.5	3792660	2.41E-07	6.5YrCancerDerived_Inh_FAH16to70
1145	ALL	353265.5	3792560	2.40E-07	6.5YrCancerDerived_Inh_FAH16to70
1456	ALL	353065.5	3792835	2.40E-07	6.5YrCancerDerived_Inh_FAH16to70
1286	ALL	353165.5	3792685	2.39E-07	6.5YrCancerDerived_Inh_FAH16to70
62	ALL	354523.1	3792518	2.39E-07	6.5YrCancerDerived_Inh_FAH16to70
30	ALL	354498.1	3792493	2.39E-07	6.5YrCancerDerived_Inh_FAH16to70
1541	ALL	353015.5	3792910	2.38E-07	6.5YrCancerDerived_Inh_FAH16to70

1173	ALL	353240.5	3792585	2.38E-07	6.5YrCancerDerived_Inh_FAH16to70
1399	ALL	353090.5	3792785	2.38E-07	6.5YrCancerDerived_Inh_FAH16to70
1314	ALL	353140.5	3792710	2.38E-07	6.5YrCancerDerived_Inh_FAH16to70
1484	ALL	353040.5	3792860	2.37E-07	6.5YrCancerDerived_Inh_FAH16to70
1201	ALL	353215.5	3792610	2.37E-07	6.5YrCancerDerived_Inh_FAH16to70
1342	ALL	353115.5	3792735	2.35E-07	6.5YrCancerDerived_Inh_FAH16to70
1427	ALL	353065.5	3792810	2.34E-07	6.5YrCancerDerived_Inh_FAH16to70
1229	ALL	353190.5	3792635	2.34E-07	6.5YrCancerDerived_Inh_FAH16to70
1512	ALL	353015.5	3792885	2.34E-07	6.5YrCancerDerived_Inh_FAH16to70
1088	ALL	353290.5	3792510	2.33E-07	6.5YrCancerDerived_Inh_FAH16to70
1257	ALL	353165.5	3792660	2.33E-07	6.5YrCancerDerived_Inh_FAH16to70
31	ALL	354523.1	3792493	2.33E-07	6.5YrCancerDerived_Inh_FAH16to70
1116	ALL	353265.5	3792535	2.33E-07	6.5YrCancerDerived_Inh_FAH16to70
1370	ALL	353090.5	3792760	2.32E-07	6.5YrCancerDerived_Inh_FAH16to70
1455	ALL	353040.5	3792835	2.32E-07	6.5YrCancerDerived_Inh_FAH16to70
1285	ALL	353140.5	3792685	2.31E-07	6.5YrCancerDerived_Inh_FAH16to70
1144	ALL	353240.5	3792560	2.31E-07	6.5YrCancerDerived_Inh_FAH16to70
1172	ALL	353215.5	3792585	2.30E-07	6.5YrCancerDerived_Inh_FAH16to70
1313	ALL	353115.5	3792710	2.29E-07	6.5YrCancerDerived_Inh_FAH16to70
1398	ALL	353065.5	3792785	2.29E-07	6.5YrCancerDerived_Inh_FAH16to70
1483	ALL	353015.5	3792860	2.28E-07	6.5YrCancerDerived_Inh_FAH16to70
1200	ALL	353190.5	3792610	2.27E-07	6.5YrCancerDerived_Inh_FAH16to70
1426	ALL	353040.5	3792810	2.26E-07	6.5YrCancerDerived_Inh_FAH16to70
1341	ALL	353090.5	3792735	2.26E-07	6.5YrCancerDerived_Inh_FAH16to70
1228	ALL	353165.5	3792635	2.26E-07	6.5YrCancerDerived_Inh_FAH16to70
1087	ALL	353265.5	3792510	2.25E-07	6.5YrCancerDerived_Inh_FAH16to70
1256	ALL	353140.5	3792660	2.25E-07	6.5YrCancerDerived_Inh_FAH16to70
1115	ALL	353240.5	3792535	2.25E-07	6.5YrCancerDerived_Inh_FAH16to70
1284	ALL	353115.5	3792685	2.24E-07	6.5YrCancerDerived_Inh_FAH16to70
1454	ALL	353015.5	3792835	2.24E-07	6.5YrCancerDerived_Inh_FAH16to70
1369	ALL	353065.5	3792760	2.24E-07	6.5YrCancerDerived_Inh_FAH16to70
1143	ALL	353215.5	3792560	2.23E-07	6.5YrCancerDerived_Inh_FAH16to70
1312	ALL	353090.5	3792710	2.21E-07	6.5YrCancerDerived_Inh_FAH16to70
1397	ALL	353040.5	3792785	2.21E-07	6.5YrCancerDerived_Inh_FAH16to70
1199	ALL	353165.5	3792610	2.20E-07	6.5YrCancerDerived_Inh_FAH16to70
1171	ALL	353190.5	3792585	2.20E-07	6.5YrCancerDerived_Inh_FAH16to70
1227	ALL	353140.5	3792635	2.19E-07	6.5YrCancerDerived_Inh_FAH16to70
1425	ALL	353015.5	3792810	2.19E-07	6.5YrCancerDerived_Inh_FAH16to70
1340	ALL	353065.5	3792735	2.18E-07	6.5YrCancerDerived_Inh_FAH16to70
1086	ALL	353240.5	3792510	2.18E-07	6.5YrCancerDerived_Inh_FAH16to70
1255	ALL	353115.5	3792660	2.18E-07	6.5YrCancerDerived_Inh_FAH16to70
1114	ALL	353215.5	3792535	2.17E-07	6.5YrCancerDerived_Inh_FAH16to70
1283	ALL	353090.5	3792685	2.16E-07	6.5YrCancerDerived_Inh_FAH16to70
1368	ALL	353040.5	3792760	2.16E-07	6.5YrCancerDerived_Inh_FAH16to70
1170	ALL	353165.5	3792585	2.14E-07	6.5YrCancerDerived_Inh_FAH16to70
1311	ALL	353065.5	3792710	2.14E-07	6.5YrCancerDerived_Inh_FAH16to70
1198	ALL	353140.5	3792610	2.14E-07	6.5YrCancerDerived_Inh_FAH16to70

1396	ALL	353015.5	3792785	2.14E-07	6.5YrCancerDerived_Inh_FAH16to70
1142	ALL	353190.5	3792560	2.13E-07	6.5YrCancerDerived_Inh_FAH16to70
1226	ALL	353115.5	3792635	2.12E-07	6.5YrCancerDerived_Inh_FAH16to70
1339	ALL	353040.5	3792735	2.11E-07	6.5YrCancerDerived_Inh_FAH16to70
1085	ALL	353215.5	3792510	2.11E-07	6.5YrCancerDerived_Inh_FAH16to70
1254	ALL	353090.5	3792660	2.11E-07	6.5YrCancerDerived_Inh_FAH16to70
1282	ALL	353065.5	3792685	2.09E-07	6.5YrCancerDerived_Inh_FAH16to70
1367	ALL	353015.5	3792760	2.09E-07	6.5YrCancerDerived_Inh_FAH16to70
1141	ALL	353165.5	3792560	2.09E-07	6.5YrCancerDerived_Inh_FAH16to70
1169	ALL	353140.5	3792585	2.08E-07	6.5YrCancerDerived_Inh_FAH16to70
1113	ALL	353190.5	3792535	2.07E-07	6.5YrCancerDerived_Inh_FAH16to70
1197	ALL	353115.5	3792610	2.07E-07	6.5YrCancerDerived_Inh_FAH16to70
1310	ALL	353040.5	3792710	2.07E-07	6.5YrCancerDerived_Inh_FAH16to70
1225	ALL	353090.5	3792635	2.05E-07	6.5YrCancerDerived_Inh_FAH16to70
1338	ALL	353015.5	3792735	2.04E-07	6.5YrCancerDerived_Inh_FAH16to70
1253	ALL	353065.5	3792660	2.04E-07	6.5YrCancerDerived_Inh_FAH16to70
1112	ALL	353165.5	3792535	2.03E-07	6.5YrCancerDerived_Inh_FAH16to70
1084	ALL	353190.5	3792510	2.03E-07	6.5YrCancerDerived_Inh_FAH16to70
1140	ALL	353140.5	3792560	2.02E-07	6.5YrCancerDerived_Inh_FAH16to70
1281	ALL	353040.5	3792685	2.02E-07	6.5YrCancerDerived_Inh_FAH16to70
1168	ALL	353115.5	3792585	2.01E-07	6.5YrCancerDerived_Inh_FAH16to70
1309	ALL	353015.5	3792710	2.00E-07	6.5YrCancerDerived_Inh_FAH16to70
1196	ALL	353090.5	3792610	2.00E-07	6.5YrCancerDerived_Inh_FAH16to70
1224	ALL	353065.5	3792635	1.99E-07	6.5YrCancerDerived_Inh_FAH16to70
1083	ALL	353165.5	3792510	1.97E-07	6.5YrCancerDerived_Inh_FAH16to70
1252	ALL	353040.5	3792660	1.97E-07	6.5YrCancerDerived_Inh_FAH16to70
1111	ALL	353140.5	3792535	1.97E-07	6.5YrCancerDerived_Inh_FAH16to70
1139	ALL	353115.5	3792560	1.96E-07	6.5YrCancerDerived_Inh_FAH16to70
1280	ALL	353015.5	3792685	1.96E-07	6.5YrCancerDerived_Inh_FAH16to70
1167	ALL	353090.5	3792585	1.95E-07	6.5YrCancerDerived_Inh_FAH16to70
1195	ALL	353065.5	3792610	1.94E-07	6.5YrCancerDerived_Inh_FAH16to70
1223	ALL	353040.5	3792635	1.92E-07	6.5YrCancerDerived_Inh_FAH16to70
1082	ALL	353140.5	3792510	1.92E-07	6.5YrCancerDerived_Inh_FAH16to70
1110	ALL	353115.5	3792535	1.91E-07	6.5YrCancerDerived_Inh_FAH16to70
1251	ALL	353015.5	3792660	1.91E-07	6.5YrCancerDerived_Inh_FAH16to70
1138	ALL	353090.5	3792560	1.90E-07	6.5YrCancerDerived_Inh_FAH16to70
1166	ALL	353065.5	3792585	1.89E-07	6.5YrCancerDerived_Inh_FAH16to70
1194	ALL	353040.5	3792610	1.88E-07	6.5YrCancerDerived_Inh_FAH16to70
1222	ALL	353015.5	3792635	1.87E-07	6.5YrCancerDerived_Inh_FAH16to70
1081	ALL	353115.5	3792510	1.86E-07	6.5YrCancerDerived_Inh_FAH16to70
1109	ALL	353090.5	3792535	1.85E-07	6.5YrCancerDerived_Inh_FAH16to70
1137	ALL	353065.5	3792560	1.85E-07	6.5YrCancerDerived_Inh_FAH16to70
1165	ALL	353040.5	3792585	1.84E-07	6.5YrCancerDerived_Inh_FAH16to70
1193	ALL	353015.5	3792610	1.82E-07	6.5YrCancerDerived_Inh_FAH16to70
1080	ALL	353090.5	3792510	1.80E-07	6.5YrCancerDerived_Inh_FAH16to70
1108	ALL	353065.5	3792535	1.80E-07	6.5YrCancerDerived_Inh_FAH16to70
1136	ALL	353040.5	3792560	1.80E-07	6.5YrCancerDerived_Inh_FAH16to70

1164	ALL	353015.5	3792585	1.78E-07	6.5YrCancerDerived_Inh_FAH16to70
1079	ALL	353065.5	3792510	1.76E-07	6.5YrCancerDerived_Inh_FAH16to70
1107	ALL	353040.5	3792535	1.75E-07	6.5YrCancerDerived_Inh_FAH16to70
1135	ALL	353015.5	3792560	1.75E-07	6.5YrCancerDerived_Inh_FAH16to70
1078	ALL	353040.5	3792510	1.71E-07	6.5YrCancerDerived_Inh_FAH16to70
1106	ALL	353015.5	3792535	1.71E-07	6.5YrCancerDerived_Inh_FAH16to70
1077	ALL	353015.5	3792510	1.67E-07	6.5YrCancerDerived_Inh_FAH16to70

De Soto Storage Tank - Residential Cancer Risk (Mitigated)

De Soto Storage Tank - Residential Cancer Risk (Mitigated)

De Soto Storage Tank - Residential Cancer Risk (Mitigated)

De Soto Storage Tank - Residential Cancer Risk (Mitigated)

De Soto Storage Tank - Residential Cancer Risk (Mitigated)

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De Soto Storage Tank - Residential Cancer Risk (Mitigated)

*HARP - HRACalc v19044 10/9/2019 1:38:29 PM - Chronic Risk - Input File: P:\300.Environmental\1064

REC	GRP	X	Y	SCENARIO	MAXHI
2005	ALL	354008	3793427	NonCancerChronicDerived_Inh	7.17E-03
2006	ALL	354023	3793427	NonCancerChronicDerived_Inh	6.99E-03
2007	ALL	354038	3793427	NonCancerChronicDerived_Inh	6.70E-03
2008	ALL	354053	3793427	NonCancerChronicDerived_Inh	6.29E-03
2009	ALL	354068	3793427	NonCancerChronicDerived_Inh	5.82E-03
2010	ALL	354083	3793427	NonCancerChronicDerived_Inh	5.29E-03
1996	ALL	354008	3793412	NonCancerChronicDerived_Inh	5.19E-03
1997	ALL	354023	3793412	NonCancerChronicDerived_Inh	5.05E-03
1998	ALL	354038	3793412	NonCancerChronicDerived_Inh	4.86E-03
2011	ALL	354098	3793427	NonCancerChronicDerived_Inh	4.73E-03
1999	ALL	354053	3793412	NonCancerChronicDerived_Inh	4.60E-03
2000	ALL	354068	3793412	NonCancerChronicDerived_Inh	4.27E-03
2012	ALL	354113	3793427	NonCancerChronicDerived_Inh	4.14E-03
1988	ALL	354008	3793397	NonCancerChronicDerived_Inh	3.99E-03
2001	ALL	354083	3793412	NonCancerChronicDerived_Inh	3.90E-03
1989	ALL	354023	3793397	NonCancerChronicDerived_Inh	3.89E-03
1990	ALL	354038	3793397	NonCancerChronicDerived_Inh	3.76E-03
1991	ALL	354053	3793397	NonCancerChronicDerived_Inh	3.57E-03
2002	ALL	354098	3793412	NonCancerChronicDerived_Inh	3.51E-03
2013	ALL	354128	3793427	NonCancerChronicDerived_Inh	3.44E-03
1992	ALL	354068	3793397	NonCancerChronicDerived_Inh	3.33E-03
1981	ALL	354008	3793382	NonCancerChronicDerived_Inh	3.23E-03
1982	ALL	354023	3793382	NonCancerChronicDerived_Inh	3.18E-03
2003	ALL	354113	3793412	NonCancerChronicDerived_Inh	3.15E-03
1993	ALL	354083	3793397	NonCancerChronicDerived_Inh	3.06E-03
1983	ALL	354038	3793382	NonCancerChronicDerived_Inh	3.06E-03
1984	ALL	354053	3793382	NonCancerChronicDerived_Inh	2.90E-03
1994	ALL	354098	3793397	NonCancerChronicDerived_Inh	2.78E-03
2004	ALL	354128	3793412	NonCancerChronicDerived_Inh	2.74E-03
1985	ALL	354068	3793382	NonCancerChronicDerived_Inh	2.73E-03
1974	ALL	354008	3793367	NonCancerChronicDerived_Inh	2.67E-03
1975	ALL	354023	3793367	NonCancerChronicDerived_Inh	2.64E-03
1976	ALL	354038	3793367	NonCancerChronicDerived_Inh	2.54E-03
1995	ALL	354113	3793397	NonCancerChronicDerived_Inh	2.53E-03
1986	ALL	354083	3793382	NonCancerChronicDerived_Inh	2.52E-03
1977	ALL	354053	3793367	NonCancerChronicDerived_Inh	2.41E-03
1987	ALL	354098	3793382	NonCancerChronicDerived_Inh	2.30E-03
1978	ALL	354068	3793367	NonCancerChronicDerived_Inh	2.28E-03
1968	ALL	354008	3793352	NonCancerChronicDerived_Inh	2.24E-03
1969	ALL	354023	3793352	NonCancerChronicDerived_Inh	2.20E-03
1970	ALL	354038	3793352	NonCancerChronicDerived_Inh	2.13E-03
1979	ALL	354083	3793367	NonCancerChronicDerived_Inh	2.13E-03
1971	ALL	354053	3793352	NonCancerChronicDerived_Inh	2.04E-03
1011	ALL	353773.1	3793343	NonCancerChronicDerived_Inh	1.97E-03
1980	ALL	354098	3793367	NonCancerChronicDerived_Inh	1.95E-03

1962	ALL	353993	3793337	NonCancerChronicDerived_Inh	1.95E-03
1972	ALL	354068	3793352	NonCancerChronicDerived_Inh	1.93E-03
1963	ALL	354008	3793337	NonCancerChronicDerived_Inh	1.92E-03
1964	ALL	354023	3793337	NonCancerChronicDerived_Inh	1.87E-03
1965	ALL	354038	3793337	NonCancerChronicDerived_Inh	1.82E-03
1973	ALL	354083	3793352	NonCancerChronicDerived_Inh	1.81E-03
992	ALL	353773.1	3793318	NonCancerChronicDerived_Inh	1.79E-03
1966	ALL	354053	3793337	NonCancerChronicDerived_Inh	1.76E-03
1955	ALL	353963	3793322	NonCancerChronicDerived_Inh	1.71E-03
811	ALL	353773.1	3793143	NonCancerChronicDerived_Inh	1.71E-03
1956	ALL	353978	3793322	NonCancerChronicDerived_Inh	1.70E-03
954	ALL	353773.1	3793268	NonCancerChronicDerived_Inh	1.69E-03
1957	ALL	353993	3793322	NonCancerChronicDerived_Inh	1.69E-03
1958	ALL	354008	3793322	NonCancerChronicDerived_Inh	1.66E-03
1967	ALL	354068	3793337	NonCancerChronicDerived_Inh	1.66E-03
747	ALL	353773.1	3793093	NonCancerChronicDerived_Inh	1.65E-03
2273	ALL	353711.5	3793405	NonCancerChronicDerived_Inh	1.63E-03
1959	ALL	354023	3793322	NonCancerChronicDerived_Inh	1.63E-03
907	ALL	353773.1	3793218	NonCancerChronicDerived_Inh	1.62E-03
715	ALL	353773.1	3793068	NonCancerChronicDerived_Inh	1.62E-03
2201	ALL	353726.5	3793360	NonCancerChronicDerived_Inh	1.61E-03
1012	ALL	353798.1	3793343	NonCancerChronicDerived_Inh	1.61E-03
875	ALL	353773.1	3793193	NonCancerChronicDerived_Inh	1.60E-03
683	ALL	353773.1	3793043	NonCancerChronicDerived_Inh	1.59E-03
973	ALL	353773.1	3793293	NonCancerChronicDerived_Inh	1.59E-03
1960	ALL	354038	3793322	NonCancerChronicDerived_Inh	1.58E-03
1013	ALL	353823.1	3793343	NonCancerChronicDerived_Inh	1.56E-03
843	ALL	353773.1	3793168	NonCancerChronicDerived_Inh	1.56E-03
652	ALL	353773.1	3793018	NonCancerChronicDerived_Inh	1.56E-03
621	ALL	353773.1	3792993	NonCancerChronicDerived_Inh	1.53E-03
1961	ALL	354053	3793322	NonCancerChronicDerived_Inh	1.53E-03
993	ALL	353798.1	3793318	NonCancerChronicDerived_Inh	1.52E-03
1930	ALL	353740.5	3793235	NonCancerChronicDerived_Inh	1.52E-03
2249	ALL	353711.5	3793390	NonCancerChronicDerived_Inh	1.51E-03
1949	ALL	353963	3793307	NonCancerChronicDerived_Inh	1.51E-03
779	ALL	353773.1	3793118	NonCancerChronicDerived_Inh	1.51E-03
1924	ALL	353740.5	3793210	NonCancerChronicDerived_Inh	1.50E-03
2176	ALL	353726.5	3793345	NonCancerChronicDerived_Inh	1.50E-03
1950	ALL	353978	3793307	NonCancerChronicDerived_Inh	1.50E-03
590	ALL	353773.1	3792968	NonCancerChronicDerived_Inh	1.49E-03
1951	ALL	353993	3793307	NonCancerChronicDerived_Inh	1.49E-03
1894	ALL	353740.5	3793185	NonCancerChronicDerived_Inh	1.49E-03
1864	ALL	353740.5	3793160	NonCancerChronicDerived_Inh	1.48E-03
1834	ALL	353740.5	3793135	NonCancerChronicDerived_Inh	1.47E-03
1952	ALL	354008	3793307	NonCancerChronicDerived_Inh	1.47E-03
559	ALL	353773.1	3792943	NonCancerChronicDerived_Inh	1.47E-03
1804	ALL	353740.5	3793110	NonCancerChronicDerived_Inh	1.46E-03

1774	ALL	353740.5	3793085	NonCancerChronicDerived_Inh	1.46E-03
1744	ALL	353740.5	3793060	NonCancerChronicDerived_Inh	1.45E-03
974	ALL	353798.1	3793293	NonCancerChronicDerived_Inh	1.45E-03
1953	ALL	354023	3793307	NonCancerChronicDerived_Inh	1.43E-03
528	ALL	353773.1	3792918	NonCancerChronicDerived_Inh	1.43E-03
2151	ALL	353726.5	3793330	NonCancerChronicDerived_Inh	1.43E-03
2225	ALL	353711.5	3793375	NonCancerChronicDerived_Inh	1.41E-03
1046	ALL	354173.1	3793393	NonCancerChronicDerived_Inh	1.40E-03
994	ALL	353823.1	3793318	NonCancerChronicDerived_Inh	1.40E-03
497	ALL	353773.1	3792893	NonCancerChronicDerived_Inh	1.39E-03
1954	ALL	354038	3793307	NonCancerChronicDerived_Inh	1.39E-03
955	ALL	353798.1	3793268	NonCancerChronicDerived_Inh	1.38E-03
2126	ALL	353726.5	3793315	NonCancerChronicDerived_Inh	1.37E-03
466	ALL	353773.1	3792868	NonCancerChronicDerived_Inh	1.37E-03
2296	ALL	353696.5	3793420	NonCancerChronicDerived_Inh	1.36E-03
1943	ALL	353948	3793292	NonCancerChronicDerived_Inh	1.35E-03
1944	ALL	353963	3793292	NonCancerChronicDerived_Inh	1.35E-03
435	ALL	353773.1	3792843	NonCancerChronicDerived_Inh	1.35E-03
1945	ALL	353978	3793292	NonCancerChronicDerived_Inh	1.34E-03
1942	ALL	353933	3793292	NonCancerChronicDerived_Inh	1.33E-03
1946	ALL	353993	3793292	NonCancerChronicDerived_Inh	1.33E-03
2101	ALL	353726.5	3793300	NonCancerChronicDerived_Inh	1.33E-03
404	ALL	353773.1	3792818	NonCancerChronicDerived_Inh	1.33E-03
2200	ALL	353711.5	3793360	NonCancerChronicDerived_Inh	1.32E-03
1947	ALL	354008	3793292	NonCancerChronicDerived_Inh	1.31E-03
1062	ALL	354198.1	3793418	NonCancerChronicDerived_Inh	1.30E-03
373	ALL	353773.1	3792793	NonCancerChronicDerived_Inh	1.30E-03
2076	ALL	353726.5	3793285	NonCancerChronicDerived_Inh	1.30E-03
2272	ALL	353696.5	3793405	NonCancerChronicDerived_Inh	1.28E-03
1948	ALL	354023	3793292	NonCancerChronicDerived_Inh	1.28E-03
975	ALL	353823.1	3793293	NonCancerChronicDerived_Inh	1.28E-03
2051	ALL	353726.5	3793270	NonCancerChronicDerived_Inh	1.27E-03
342	ALL	353773.1	3792768	NonCancerChronicDerived_Inh	1.27E-03
908	ALL	353798.1	3793218	NonCancerChronicDerived_Inh	1.25E-03
2175	ALL	353711.5	3793345	NonCancerChronicDerived_Inh	1.24E-03
311	ALL	353773.1	3792743	NonCancerChronicDerived_Inh	1.24E-03
2248	ALL	353696.5	3793390	NonCancerChronicDerived_Inh	1.23E-03
1939	ALL	353963	3793277	NonCancerChronicDerived_Inh	1.22E-03
1938	ALL	353948	3793277	NonCancerChronicDerived_Inh	1.22E-03
1940	ALL	353978	3793277	NonCancerChronicDerived_Inh	1.21E-03
1030	ALL	354173.1	3793368	NonCancerChronicDerived_Inh	1.21E-03
1937	ALL	353933	3793277	NonCancerChronicDerived_Inh	1.21E-03
1941	ALL	353993	3793277	NonCancerChronicDerived_Inh	1.20E-03
280	ALL	353773.1	3792718	NonCancerChronicDerived_Inh	1.20E-03
1936	ALL	353918	3793277	NonCancerChronicDerived_Inh	1.20E-03
2150	ALL	353711.5	3793330	NonCancerChronicDerived_Inh	1.19E-03
2340	ALL	353681.5	3793450	NonCancerChronicDerived_Inh	1.19E-03

956	ALL	353823.1	3793268	NonCancerChronicDerived_Inh	1.18E-03
844	ALL	353798.1	3793168	NonCancerChronicDerived_Inh	1.18E-03
2224	ALL	353696.5	3793375	NonCancerChronicDerived_Inh	1.17E-03
2318	ALL	353681.5	3793435	NonCancerChronicDerived_Inh	1.16E-03
876	ALL	353798.1	3793193	NonCancerChronicDerived_Inh	1.16E-03
1047	ALL	354198.1	3793393	NonCancerChronicDerived_Inh	1.16E-03
812	ALL	353798.1	3793143	NonCancerChronicDerived_Inh	1.15E-03
2125	ALL	353711.5	3793315	NonCancerChronicDerived_Inh	1.15E-03
249	ALL	353773.1	3792693	NonCancerChronicDerived_Inh	1.14E-03
2295	ALL	353681.5	3793420	NonCancerChronicDerived_Inh	1.13E-03
2100	ALL	353711.5	3793300	NonCancerChronicDerived_Inh	1.12E-03
780	ALL	353798.1	3793118	NonCancerChronicDerived_Inh	1.12E-03
2199	ALL	353696.5	3793360	NonCancerChronicDerived_Inh	1.12E-03
1935	ALL	353963	3793262	NonCancerChronicDerived_Inh	1.11E-03
1934	ALL	353948	3793262	NonCancerChronicDerived_Inh	1.11E-03
1933	ALL	353933	3793262	NonCancerChronicDerived_Inh	1.10E-03
1932	ALL	353918	3793262	NonCancerChronicDerived_Inh	1.10E-03
1929	ALL	353715.5	3793235	NonCancerChronicDerived_Inh	1.10E-03
2075	ALL	353711.5	3793285	NonCancerChronicDerived_Inh	1.10E-03
748	ALL	353798.1	3793093	NonCancerChronicDerived_Inh	1.09E-03
2271	ALL	353681.5	3793405	NonCancerChronicDerived_Inh	1.09E-03
1923	ALL	353715.5	3793210	NonCancerChronicDerived_Inh	1.08E-03
2050	ALL	353711.5	3793270	NonCancerChronicDerived_Inh	1.08E-03
2174	ALL	353696.5	3793345	NonCancerChronicDerived_Inh	1.07E-03
716	ALL	353798.1	3793068	NonCancerChronicDerived_Inh	1.07E-03
1893	ALL	353715.5	3793185	NonCancerChronicDerived_Inh	1.07E-03
1063	ALL	354223.1	3793418	NonCancerChronicDerived_Inh	1.07E-03
1014	ALL	354173.1	3793343	NonCancerChronicDerived_Inh	1.06E-03
2247	ALL	353681.5	3793390	NonCancerChronicDerived_Inh	1.05E-03
1863	ALL	353715.5	3793160	NonCancerChronicDerived_Inh	1.05E-03
684	ALL	353798.1	3793043	NonCancerChronicDerived_Inh	1.05E-03
909	ALL	353823.1	3793218	NonCancerChronicDerived_Inh	1.04E-03
218	ALL	353773.1	3792668	NonCancerChronicDerived_Inh	1.04E-03
2149	ALL	353696.5	3793330	NonCancerChronicDerived_Inh	1.04E-03
1833	ALL	353715.5	3793135	NonCancerChronicDerived_Inh	1.04E-03
1031	ALL	354198.1	3793368	NonCancerChronicDerived_Inh	1.03E-03
1803	ALL	353715.5	3793110	NonCancerChronicDerived_Inh	1.03E-03
653	ALL	353798.1	3793018	NonCancerChronicDerived_Inh	1.03E-03
2339	ALL	353666.5	3793450	NonCancerChronicDerived_Inh	1.02E-03
2223	ALL	353681.5	3793375	NonCancerChronicDerived_Inh	1.02E-03
1773	ALL	353715.5	3793085	NonCancerChronicDerived_Inh	1.01E-03
2124	ALL	353696.5	3793315	NonCancerChronicDerived_Inh	1.01E-03
622	ALL	353798.1	3792993	NonCancerChronicDerived_Inh	1.00E-03
1743	ALL	353715.5	3793060	NonCancerChronicDerived_Inh	1.00E-03
2317	ALL	353666.5	3793435	NonCancerChronicDerived_Inh	9.95E-04
1714	ALL	353715.5	3793035	NonCancerChronicDerived_Inh	9.87E-04
2099	ALL	353696.5	3793300	NonCancerChronicDerived_Inh	9.86E-04

2198	ALL	353681.5	3793360	NonCancerChronicDerived_Inh	9.80E-04
1685	ALL	353715.5	3793010	NonCancerChronicDerived_Inh	9.78E-04
591	ALL	353798.1	3792968	NonCancerChronicDerived_Inh	9.78E-04
2294	ALL	353666.5	3793420	NonCancerChronicDerived_Inh	9.77E-04
1048	ALL	354223.1	3793393	NonCancerChronicDerived_Inh	9.72E-04
877	ALL	353823.1	3793193	NonCancerChronicDerived_Inh	9.71E-04
1656	ALL	353715.5	3792985	NonCancerChronicDerived_Inh	9.70E-04
2074	ALL	353696.5	3793285	NonCancerChronicDerived_Inh	9.68E-04
1627	ALL	353715.5	3792960	NonCancerChronicDerived_Inh	9.62E-04
1598	ALL	353715.5	3792935	NonCancerChronicDerived_Inh	9.55E-04
560	ALL	353798.1	3792943	NonCancerChronicDerived_Inh	9.54E-04
2270	ALL	353666.5	3793405	NonCancerChronicDerived_Inh	9.53E-04
910	ALL	353848.1	3793218	NonCancerChronicDerived_Inh	9.50E-04
845	ALL	353823.1	3793168	NonCancerChronicDerived_Inh	9.49E-04
2049	ALL	353696.5	3793270	NonCancerChronicDerived_Inh	9.48E-04
1569	ALL	353715.5	3792910	NonCancerChronicDerived_Inh	9.47E-04
2173	ALL	353681.5	3793345	NonCancerChronicDerived_Inh	9.46E-04
1540	ALL	353715.5	3792885	NonCancerChronicDerived_Inh	9.39E-04
2246	ALL	353666.5	3793390	NonCancerChronicDerived_Inh	9.30E-04
1511	ALL	353715.5	3792860	NonCancerChronicDerived_Inh	9.27E-04
995	ALL	354173.1	3793318	NonCancerChronicDerived_Inh	9.27E-04
529	ALL	353798.1	3792918	NonCancerChronicDerived_Inh	9.26E-04
813	ALL	353823.1	3793143	NonCancerChronicDerived_Inh	9.22E-04
2148	ALL	353681.5	3793330	NonCancerChronicDerived_Inh	9.21E-04
1015	ALL	354198.1	3793343	NonCancerChronicDerived_Inh	9.16E-04
1482	ALL	353715.5	3792835	NonCancerChronicDerived_Inh	9.16E-04
911	ALL	353873.1	3793218	NonCancerChronicDerived_Inh	9.08E-04
2360	ALL	353651.5	3793465	NonCancerChronicDerived_Inh	9.08E-04
2222	ALL	353666.5	3793375	NonCancerChronicDerived_Inh	9.05E-04
1453	ALL	353715.5	3792810	NonCancerChronicDerived_Inh	9.05E-04
498	ALL	353798.1	3792893	NonCancerChronicDerived_Inh	9.04E-04
2123	ALL	353681.5	3793315	NonCancerChronicDerived_Inh	9.00E-04
1064	ALL	354248.1	3793418	NonCancerChronicDerived_Inh	8.99E-04
2338	ALL	353651.5	3793450	NonCancerChronicDerived_Inh	8.99E-04
912	ALL	353898.1	3793218	NonCancerChronicDerived_Inh	8.93E-04
1931	ALL	353923.3	3793217	NonCancerChronicDerived_Inh	8.91E-04
1424	ALL	353715.5	3792785	NonCancerChronicDerived_Inh	8.90E-04
781	ALL	353823.1	3793118	NonCancerChronicDerived_Inh	8.89E-04
467	ALL	353798.1	3792868	NonCancerChronicDerived_Inh	8.88E-04
913	ALL	353948.1	3793218	NonCancerChronicDerived_Inh	8.87E-04
2316	ALL	353651.5	3793435	NonCancerChronicDerived_Inh	8.86E-04
2098	ALL	353681.5	3793300	NonCancerChronicDerived_Inh	8.82E-04
878	ALL	353848.1	3793193	NonCancerChronicDerived_Inh	8.81E-04
1032	ALL	354223.1	3793368	NonCancerChronicDerived_Inh	8.79E-04
2197	ALL	353666.5	3793360	NonCancerChronicDerived_Inh	8.77E-04
914	ALL	353973.1	3793218	NonCancerChronicDerived_Inh	8.76E-04
1395	ALL	353715.5	3792760	NonCancerChronicDerived_Inh	8.75E-04

2293	ALL	353651.5	3793420	NonCancerChronicDerived_Inh	8.72E-04
436	ALL	353798.1	3792843	NonCancerChronicDerived_Inh	8.72E-04
1928	ALL	353690.5	3793235	NonCancerChronicDerived_Inh	8.70E-04
2436	ALL	353636.5	3793525	NonCancerChronicDerived_Inh	8.69E-04
2073	ALL	353681.5	3793285	NonCancerChronicDerived_Inh	8.67E-04
915	ALL	353998.1	3793218	NonCancerChronicDerived_Inh	8.63E-04
2417	ALL	353636.5	3793510	NonCancerChronicDerived_Inh	8.60E-04
749	ALL	353823.1	3793093	NonCancerChronicDerived_Inh	8.59E-04
2269	ALL	353651.5	3793405	NonCancerChronicDerived_Inh	8.55E-04
405	ALL	353798.1	3792818	NonCancerChronicDerived_Inh	8.53E-04
1922	ALL	353690.5	3793210	NonCancerChronicDerived_Inh	8.52E-04
1366	ALL	353715.5	3792735	NonCancerChronicDerived_Inh	8.52E-04
2172	ALL	353666.5	3793345	NonCancerChronicDerived_Inh	8.50E-04
2048	ALL	353681.5	3793270	NonCancerChronicDerived_Inh	8.48E-04
187	ALL	353773.1	3792643	NonCancerChronicDerived_Inh	8.48E-04
2398	ALL	353636.5	3793495	NonCancerChronicDerived_Inh	8.47E-04
916	ALL	354023.1	3793218	NonCancerChronicDerived_Inh	8.42E-04
879	ALL	353873.1	3793193	NonCancerChronicDerived_Inh	8.39E-04
2245	ALL	353651.5	3793390	NonCancerChronicDerived_Inh	8.38E-04
1892	ALL	353690.5	3793185	NonCancerChronicDerived_Inh	8.37E-04
1049	ALL	354248.1	3793393	NonCancerChronicDerived_Inh	8.37E-04
846	ALL	353848.1	3793168	NonCancerChronicDerived_Inh	8.33E-04
374	ALL	353798.1	3792793	NonCancerChronicDerived_Inh	8.32E-04
717	ALL	353823.1	3793068	NonCancerChronicDerived_Inh	8.32E-04
2147	ALL	353666.5	3793330	NonCancerChronicDerived_Inh	8.31E-04
2379	ALL	353636.5	3793480	NonCancerChronicDerived_Inh	8.28E-04
1862	ALL	353690.5	3793160	NonCancerChronicDerived_Inh	8.21E-04
996	ALL	354198.1	3793318	NonCancerChronicDerived_Inh	8.21E-04
2221	ALL	353651.5	3793375	NonCancerChronicDerived_Inh	8.20E-04
976	ALL	354173.1	3793293	NonCancerChronicDerived_Inh	8.16E-04
880	ALL	353898.1	3793193	NonCancerChronicDerived_Inh	8.15E-04
1337	ALL	353715.5	3792710	NonCancerChronicDerived_Inh	8.14E-04
2122	ALL	353666.5	3793315	NonCancerChronicDerived_Inh	8.14E-04
2359	ALL	353636.5	3793465	NonCancerChronicDerived_Inh	8.14E-04
917	ALL	354048.1	3793218	NonCancerChronicDerived_Inh	8.10E-04
1832	ALL	353690.5	3793135	NonCancerChronicDerived_Inh	8.09E-04
2337	ALL	353636.5	3793450	NonCancerChronicDerived_Inh	8.09E-04
685	ALL	353823.1	3793043	NonCancerChronicDerived_Inh	8.08E-04
343	ALL	353798.1	3792768	NonCancerChronicDerived_Inh	8.07E-04
814	ALL	353848.1	3793143	NonCancerChronicDerived_Inh	8.04E-04
2454	ALL	353621.5	3793540	NonCancerChronicDerived_Inh	8.03E-04
881	ALL	353923.1	3793193	NonCancerChronicDerived_Inh	8.02E-04
2315	ALL	353636.5	3793435	NonCancerChronicDerived_Inh	8.01E-04
2097	ALL	353666.5	3793300	NonCancerChronicDerived_Inh	7.99E-04
1016	ALL	354223.1	3793343	NonCancerChronicDerived_Inh	7.98E-04
882	ALL	353948.1	3793193	NonCancerChronicDerived_Inh	7.98E-04
2435	ALL	353621.5	3793525	NonCancerChronicDerived_Inh	7.97E-04

1802	ALL	353690.5	3793110	NonCancerChronicDerived_Inh	7.97E-04
2196	ALL	353651.5	3793360	NonCancerChronicDerived_Inh	7.95E-04
2292	ALL	353636.5	3793420	NonCancerChronicDerived_Inh	7.90E-04
2416	ALL	353621.5	3793510	NonCancerChronicDerived_Inh	7.86E-04
654	ALL	353823.1	3793018	NonCancerChronicDerived_Inh	7.85E-04
2072	ALL	353666.5	3793285	NonCancerChronicDerived_Inh	7.85E-04
883	ALL	353973.1	3793193	NonCancerChronicDerived_Inh	7.84E-04
1772	ALL	353690.5	3793085	NonCancerChronicDerived_Inh	7.84E-04
847	ALL	353873.1	3793168	NonCancerChronicDerived_Inh	7.83E-04
312	ALL	353798.1	3792743	NonCancerChronicDerived_Inh	7.80E-04
2268	ALL	353636.5	3793405	NonCancerChronicDerived_Inh	7.77E-04
2397	ALL	353621.5	3793495	NonCancerChronicDerived_Inh	7.72E-04
1033	ALL	354248.1	3793368	NonCancerChronicDerived_Inh	7.72E-04
2171	ALL	353651.5	3793345	NonCancerChronicDerived_Inh	7.72E-04
1742	ALL	353690.5	3793060	NonCancerChronicDerived_Inh	7.71E-04
1065	ALL	354273.1	3793418	NonCancerChronicDerived_Inh	7.71E-04
884	ALL	353998.1	3793193	NonCancerChronicDerived_Inh	7.71E-04
782	ALL	353848.1	3793118	NonCancerChronicDerived_Inh	7.71E-04
918	ALL	354073.1	3793218	NonCancerChronicDerived_Inh	7.69E-04
2047	ALL	353666.5	3793270	NonCancerChronicDerived_Inh	7.67E-04
623	ALL	353823.1	3792993	NonCancerChronicDerived_Inh	7.64E-04
2244	ALL	353636.5	3793390	NonCancerChronicDerived_Inh	7.63E-04
2378	ALL	353621.5	3793480	NonCancerChronicDerived_Inh	7.59E-04
1713	ALL	353690.5	3793035	NonCancerChronicDerived_Inh	7.57E-04
2146	ALL	353651.5	3793330	NonCancerChronicDerived_Inh	7.56E-04
848	ALL	353898.1	3793168	NonCancerChronicDerived_Inh	7.52E-04
1308	ALL	353715.5	3792685	NonCancerChronicDerived_Inh	7.51E-04
885	ALL	354023.1	3793193	NonCancerChronicDerived_Inh	7.51E-04
1684	ALL	353690.5	3793010	NonCancerChronicDerived_Inh	7.51E-04
2220	ALL	353636.5	3793375	NonCancerChronicDerived_Inh	7.49E-04
281	ALL	353798.1	3792718	NonCancerChronicDerived_Inh	7.48E-04
2358	ALL	353621.5	3793465	NonCancerChronicDerived_Inh	7.47E-04
592	ALL	353823.1	3792968	NonCancerChronicDerived_Inh	7.43E-04
815	ALL	353873.1	3793143	NonCancerChronicDerived_Inh	7.42E-04
2121	ALL	353651.5	3793315	NonCancerChronicDerived_Inh	7.42E-04
2336	ALL	353621.5	3793450	NonCancerChronicDerived_Inh	7.41E-04
1655	ALL	353690.5	3792985	NonCancerChronicDerived_Inh	7.39E-04
750	ALL	353848.1	3793093	NonCancerChronicDerived_Inh	7.39E-04
2471	ALL	353606.5	3793555	NonCancerChronicDerived_Inh	7.35E-04
977	ALL	354198.1	3793293	NonCancerChronicDerived_Inh	7.34E-04
2314	ALL	353621.5	3793435	NonCancerChronicDerived_Inh	7.33E-04
849	ALL	353923.1	3793168	NonCancerChronicDerived_Inh	7.33E-04
919	ALL	354098.1	3793218	NonCancerChronicDerived_Inh	7.33E-04
2453	ALL	353606.5	3793540	NonCancerChronicDerived_Inh	7.31E-04
997	ALL	354223.1	3793318	NonCancerChronicDerived_Inh	7.30E-04
1050	ALL	354273.1	3793393	NonCancerChronicDerived_Inh	7.29E-04
2096	ALL	353651.5	3793300	NonCancerChronicDerived_Inh	7.29E-04

1626	ALL	353690.5	3792960	NonCancerChronicDerived_Inh	7.29E-04
1927	ALL	353665.5	3793235	NonCancerChronicDerived_Inh	7.28E-04
2195	ALL	353636.5	3793360	NonCancerChronicDerived_Inh	7.27E-04
957	ALL	354173.1	3793268	NonCancerChronicDerived_Inh	7.25E-04
850	ALL	353948.1	3793168	NonCancerChronicDerived_Inh	7.24E-04
2291	ALL	353621.5	3793420	NonCancerChronicDerived_Inh	7.24E-04
886	ALL	354048.1	3793193	NonCancerChronicDerived_Inh	7.23E-04
2434	ALL	353606.5	3793525	NonCancerChronicDerived_Inh	7.23E-04
561	ALL	353823.1	3792943	NonCancerChronicDerived_Inh	7.22E-04
1597	ALL	353690.5	3792935	NonCancerChronicDerived_Inh	7.20E-04
2071	ALL	353651.5	3793285	NonCancerChronicDerived_Inh	7.17E-04
2267	ALL	353621.5	3793405	NonCancerChronicDerived_Inh	7.13E-04
1017	ALL	354248.1	3793343	NonCancerChronicDerived_Inh	7.12E-04
1568	ALL	353690.5	3792910	NonCancerChronicDerived_Inh	7.12E-04
1921	ALL	353665.5	3793210	NonCancerChronicDerived_Inh	7.12E-04
2415	ALL	353606.5	3793510	NonCancerChronicDerived_Inh	7.11E-04
851	ALL	353973.1	3793168	NonCancerChronicDerived_Inh	7.10E-04
718	ALL	353848.1	3793068	NonCancerChronicDerived_Inh	7.09E-04
2170	ALL	353636.5	3793345	NonCancerChronicDerived_Inh	7.07E-04
250	ALL	353798.1	3792693	NonCancerChronicDerived_Inh	7.06E-04
783	ALL	353873.1	3793118	NonCancerChronicDerived_Inh	7.03E-04
1539	ALL	353690.5	3792885	NonCancerChronicDerived_Inh	7.03E-04
530	ALL	353823.1	3792918	NonCancerChronicDerived_Inh	7.02E-04
2396	ALL	353606.5	3793495	NonCancerChronicDerived_Inh	7.02E-04
816	ALL	353898.1	3793143	NonCancerChronicDerived_Inh	7.01E-04
2243	ALL	353621.5	3793390	NonCancerChronicDerived_Inh	7.01E-04
2046	ALL	353651.5	3793270	NonCancerChronicDerived_Inh	7.00E-04
1891	ALL	353665.5	3793185	NonCancerChronicDerived_Inh	6.98E-04
2377	ALL	353606.5	3793480	NonCancerChronicDerived_Inh	6.96E-04
852	ALL	353998.1	3793168	NonCancerChronicDerived_Inh	6.96E-04
2145	ALL	353636.5	3793330	NonCancerChronicDerived_Inh	6.94E-04
920	ALL	354123.1	3793218	NonCancerChronicDerived_Inh	6.90E-04
2357	ALL	353606.5	3793465	NonCancerChronicDerived_Inh	6.90E-04
1510	ALL	353690.5	3792860	NonCancerChronicDerived_Inh	6.90E-04
887	ALL	354073.1	3793193	NonCancerChronicDerived_Inh	6.88E-04
2219	ALL	353621.5	3793375	NonCancerChronicDerived_Inh	6.88E-04
1861	ALL	353665.5	3793160	NonCancerChronicDerived_Inh	6.85E-04
1034	ALL	354273.1	3793368	NonCancerChronicDerived_Inh	6.84E-04
499	ALL	353823.1	3792893	NonCancerChronicDerived_Inh	6.84E-04
686	ALL	353848.1	3793043	NonCancerChronicDerived_Inh	6.84E-04
2335	ALL	353606.5	3793450	NonCancerChronicDerived_Inh	6.84E-04
2120	ALL	353636.5	3793315	NonCancerChronicDerived_Inh	6.82E-04
2487	ALL	353591.5	3793570	NonCancerChronicDerived_Inh	6.79E-04
853	ALL	354023.1	3793168	NonCancerChronicDerived_Inh	6.78E-04
817	ALL	353923.1	3793143	NonCancerChronicDerived_Inh	6.77E-04
1481	ALL	353690.5	3792835	NonCancerChronicDerived_Inh	6.77E-04
2313	ALL	353606.5	3793435	NonCancerChronicDerived_Inh	6.76E-04

2470	ALL	353591.5	3793555	NonCancerChronicDerived_Inh	6.72E-04
1066	ALL	354298.1	3793418	NonCancerChronicDerived_Inh	6.72E-04
1831	ALL	353665.5	3793135	NonCancerChronicDerived_Inh	6.72E-04
2095	ALL	353636.5	3793300	NonCancerChronicDerived_Inh	6.70E-04
2194	ALL	353621.5	3793360	NonCancerChronicDerived_Inh	6.69E-04
468	ALL	353823.1	3792868	NonCancerChronicDerived_Inh	6.69E-04
2290	ALL	353606.5	3793420	NonCancerChronicDerived_Inh	6.67E-04
2452	ALL	353591.5	3793540	NonCancerChronicDerived_Inh	6.65E-04
751	ALL	353873.1	3793093	NonCancerChronicDerived_Inh	6.64E-04
1452	ALL	353690.5	3792810	NonCancerChronicDerived_Inh	6.64E-04
818	ALL	353948.1	3793143	NonCancerChronicDerived_Inh	6.63E-04
978	ALL	354223.1	3793293	NonCancerChronicDerived_Inh	6.63E-04
1801	ALL	353665.5	3793110	NonCancerChronicDerived_Inh	6.60E-04
958	ALL	354198.1	3793268	NonCancerChronicDerived_Inh	6.59E-04
2070	ALL	353636.5	3793285	NonCancerChronicDerived_Inh	6.59E-04
655	ALL	353848.1	3793018	NonCancerChronicDerived_Inh	6.59E-04
784	ALL	353898.1	3793118	NonCancerChronicDerived_Inh	6.58E-04
998	ALL	354248.1	3793318	NonCancerChronicDerived_Inh	6.58E-04
2266	ALL	353606.5	3793405	NonCancerChronicDerived_Inh	6.57E-04
2433	ALL	353591.5	3793525	NonCancerChronicDerived_Inh	6.56E-04
888	ALL	354098.1	3793193	NonCancerChronicDerived_Inh	6.56E-04
938	ALL	354173.1	3793243	NonCancerChronicDerived_Inh	6.55E-04
854	ALL	354048.1	3793168	NonCancerChronicDerived_Inh	6.54E-04
437	ALL	353823.1	3792843	NonCancerChronicDerived_Inh	6.53E-04
2169	ALL	353621.5	3793345	NonCancerChronicDerived_Inh	6.51E-04
819	ALL	353973.1	3793143	NonCancerChronicDerived_Inh	6.49E-04
1423	ALL	353690.5	3792785	NonCancerChronicDerived_Inh	6.49E-04
1771	ALL	353665.5	3793085	NonCancerChronicDerived_Inh	6.48E-04
1279	ALL	353715.5	3792660	NonCancerChronicDerived_Inh	6.47E-04
2414	ALL	353591.5	3793510	NonCancerChronicDerived_Inh	6.47E-04
2242	ALL	353606.5	3793390	NonCancerChronicDerived_Inh	6.44E-04
2045	ALL	353636.5	3793270	NonCancerChronicDerived_Inh	6.44E-04
219	ALL	353798.1	3792668	NonCancerChronicDerived_Inh	6.44E-04
2376	ALL	353591.5	3793480	NonCancerChronicDerived_Inh	6.42E-04
1051	ALL	354298.1	3793393	NonCancerChronicDerived_Inh	6.41E-04
921	ALL	354148.1	3793218	NonCancerChronicDerived_Inh	6.41E-04
2395	ALL	353591.5	3793495	NonCancerChronicDerived_Inh	6.41E-04
2356	ALL	353591.5	3793465	NonCancerChronicDerived_Inh	6.40E-04
2144	ALL	353621.5	3793330	NonCancerChronicDerived_Inh	6.40E-04
1018	ALL	354273.1	3793343	NonCancerChronicDerived_Inh	6.39E-04
719	ALL	353873.1	3793068	NonCancerChronicDerived_Inh	6.37E-04
624	ALL	353848.1	3792993	NonCancerChronicDerived_Inh	6.37E-04
406	ALL	353823.1	3792818	NonCancerChronicDerived_Inh	6.36E-04
1741	ALL	353665.5	3793060	NonCancerChronicDerived_Inh	6.36E-04
820	ALL	353998.1	3793143	NonCancerChronicDerived_Inh	6.35E-04
2334	ALL	353591.5	3793450	NonCancerChronicDerived_Inh	6.34E-04
2218	ALL	353606.5	3793375	NonCancerChronicDerived_Inh	6.31E-04

785	ALL	353923.1	3793118	NonCancerChronicDerived_Inh	6.31E-04
1926	ALL	353640.5	3793235	NonCancerChronicDerived_Inh	6.30E-04
2119	ALL	353621.5	3793315	NonCancerChronicDerived_Inh	6.30E-04
1394	ALL	353690.5	3792760	NonCancerChronicDerived_Inh	6.30E-04
2312	ALL	353591.5	3793435	NonCancerChronicDerived_Inh	6.27E-04
889	ALL	354123.1	3793193	NonCancerChronicDerived_Inh	6.25E-04
855	ALL	354073.1	3793168	NonCancerChronicDerived_Inh	6.24E-04
1712	ALL	353665.5	3793035	NonCancerChronicDerived_Inh	6.24E-04
2486	ALL	353576.5	3793570	NonCancerChronicDerived_Inh	6.20E-04
2094	ALL	353621.5	3793300	NonCancerChronicDerived_Inh	6.19E-04
593	ALL	353848.1	3792968	NonCancerChronicDerived_Inh	6.19E-04
2289	ALL	353591.5	3793420	NonCancerChronicDerived_Inh	6.19E-04
375	ALL	353823.1	3792793	NonCancerChronicDerived_Inh	6.19E-04
821	ALL	354023.1	3793143	NonCancerChronicDerived_Inh	6.18E-04
1683	ALL	353665.5	3793010	NonCancerChronicDerived_Inh	6.17E-04
752	ALL	353898.1	3793093	NonCancerChronicDerived_Inh	6.17E-04
2193	ALL	353606.5	3793360	NonCancerChronicDerived_Inh	6.16E-04
1920	ALL	353640.5	3793210	NonCancerChronicDerived_Inh	6.15E-04
2469	ALL	353576.5	3793555	NonCancerChronicDerived_Inh	6.15E-04
786	ALL	353948.1	3793118	NonCancerChronicDerived_Inh	6.14E-04
687	ALL	353873.1	3793043	NonCancerChronicDerived_Inh	6.11E-04
2451	ALL	353576.5	3793540	NonCancerChronicDerived_Inh	6.11E-04
2069	ALL	353621.5	3793285	NonCancerChronicDerived_Inh	6.10E-04
2265	ALL	353591.5	3793405	NonCancerChronicDerived_Inh	6.09E-04
1035	ALL	354298.1	3793368	NonCancerChronicDerived_Inh	6.09E-04
2432	ALL	353576.5	3793525	NonCancerChronicDerived_Inh	6.06E-04
1654	ALL	353665.5	3792985	NonCancerChronicDerived_Inh	6.04E-04
1365	ALL	353690.5	3792735	NonCancerChronicDerived_Inh	6.04E-04
979	ALL	354248.1	3793293	NonCancerChronicDerived_Inh	6.03E-04
939	ALL	354198.1	3793243	NonCancerChronicDerived_Inh	6.03E-04
959	ALL	354223.1	3793268	NonCancerChronicDerived_Inh	6.02E-04
2168	ALL	353606.5	3793345	NonCancerChronicDerived_Inh	6.02E-04
1890	ALL	353640.5	3793185	NonCancerChronicDerived_Inh	6.02E-04
2413	ALL	353576.5	3793510	NonCancerChronicDerived_Inh	6.02E-04
562	ALL	353848.1	3792943	NonCancerChronicDerived_Inh	6.00E-04
787	ALL	353973.1	3793118	NonCancerChronicDerived_Inh	5.99E-04
2394	ALL	353576.5	3793495	NonCancerChronicDerived_Inh	5.98E-04
2375	ALL	353576.5	3793480	NonCancerChronicDerived_Inh	5.98E-04
922	ALL	354173.1	3793218	NonCancerChronicDerived_Inh	5.97E-04
822	ALL	354048.1	3793143	NonCancerChronicDerived_Inh	5.97E-04
344	ALL	353823.1	3792768	NonCancerChronicDerived_Inh	5.97E-04
2044	ALL	353621.5	3793270	NonCancerChronicDerived_Inh	5.96E-04
856	ALL	354098.1	3793168	NonCancerChronicDerived_Inh	5.96E-04
2355	ALL	353576.5	3793465	NonCancerChronicDerived_Inh	5.95E-04
2241	ALL	353591.5	3793390	NonCancerChronicDerived_Inh	5.94E-04
999	ALL	354273.1	3793318	NonCancerChronicDerived_Inh	5.94E-04
1625	ALL	353665.5	3792960	NonCancerChronicDerived_Inh	5.93E-04

1067	ALL	354323.1	3793418	NonCancerChronicDerived_Inh	5.93E-04
753	ALL	353923.1	3793093	NonCancerChronicDerived_Inh	5.91E-04
2143	ALL	353606.5	3793330	NonCancerChronicDerived_Inh	5.91E-04
720	ALL	353898.1	3793068	NonCancerChronicDerived_Inh	5.91E-04
1860	ALL	353640.5	3793160	NonCancerChronicDerived_Inh	5.90E-04
2333	ALL	353576.5	3793450	NonCancerChronicDerived_Inh	5.86E-04
788	ALL	353998.1	3793118	NonCancerChronicDerived_Inh	5.84E-04
656	ALL	353873.1	3793018	NonCancerChronicDerived_Inh	5.84E-04
1596	ALL	353665.5	3792935	NonCancerChronicDerived_Inh	5.84E-04
890	ALL	354148.1	3793193	NonCancerChronicDerived_Inh	5.83E-04
2118	ALL	353606.5	3793315	NonCancerChronicDerived_Inh	5.81E-04
531	ALL	353848.1	3792918	NonCancerChronicDerived_Inh	5.81E-04
2217	ALL	353591.5	3793375	NonCancerChronicDerived_Inh	5.80E-04
1830	ALL	353640.5	3793135	NonCancerChronicDerived_Inh	5.77E-04
2311	ALL	353576.5	3793435	NonCancerChronicDerived_Inh	5.77E-04
1567	ALL	353665.5	3792910	NonCancerChronicDerived_Inh	5.74E-04
754	ALL	353948.1	3793093	NonCancerChronicDerived_Inh	5.73E-04
1019	ALL	354298.1	3793343	NonCancerChronicDerived_Inh	5.73E-04
2093	ALL	353606.5	3793300	NonCancerChronicDerived_Inh	5.72E-04
823	ALL	354073.1	3793143	NonCancerChronicDerived_Inh	5.72E-04
313	ALL	353823.1	3792743	NonCancerChronicDerived_Inh	5.72E-04
2485	ALL	353561.5	3793570	NonCancerChronicDerived_Inh	5.72E-04
857	ALL	354123.1	3793168	NonCancerChronicDerived_Inh	5.70E-04
1052	ALL	354323.1	3793393	NonCancerChronicDerived_Inh	5.70E-04
2468	ALL	353561.5	3793555	NonCancerChronicDerived_Inh	5.69E-04
2192	ALL	353591.5	3793360	NonCancerChronicDerived_Inh	5.69E-04
1336	ALL	353690.5	3792710	NonCancerChronicDerived_Inh	5.68E-04
789	ALL	354023.1	3793118	NonCancerChronicDerived_Inh	5.68E-04
2288	ALL	353576.5	3793420	NonCancerChronicDerived_Inh	5.67E-04
2450	ALL	353561.5	3793540	NonCancerChronicDerived_Inh	5.67E-04
1800	ALL	353640.5	3793110	NonCancerChronicDerived_Inh	5.66E-04
1538	ALL	353665.5	3792885	NonCancerChronicDerived_Inh	5.65E-04
2431	ALL	353561.5	3793525	NonCancerChronicDerived_Inh	5.64E-04
2068	ALL	353606.5	3793285	NonCancerChronicDerived_Inh	5.63E-04
688	ALL	353898.1	3793043	NonCancerChronicDerived_Inh	5.63E-04
2412	ALL	353561.5	3793510	NonCancerChronicDerived_Inh	5.62E-04
500	ALL	353848.1	3792893	NonCancerChronicDerived_Inh	5.62E-04
625	ALL	353873.1	3792993	NonCancerChronicDerived_Inh	5.61E-04
2393	ALL	353561.5	3793495	NonCancerChronicDerived_Inh	5.59E-04
2167	ALL	353591.5	3793345	NonCancerChronicDerived_Inh	5.59E-04
156	ALL	353773.1	3792618	NonCancerChronicDerived_Inh	5.58E-04
755	ALL	353973.1	3793093	NonCancerChronicDerived_Inh	5.58E-04
721	ALL	353923.1	3793068	NonCancerChronicDerived_Inh	5.58E-04
2264	ALL	353576.5	3793405	NonCancerChronicDerived_Inh	5.57E-04
2374	ALL	353561.5	3793480	NonCancerChronicDerived_Inh	5.57E-04
1770	ALL	353640.5	3793085	NonCancerChronicDerived_Inh	5.56E-04
1925	ALL	353615.5	3793235	NonCancerChronicDerived_Inh	5.55E-04

940	ALL	354223.1	3793243	NonCancerChronicDerived_Inh	5.55E-04
1509	ALL	353665.5	3792860	NonCancerChronicDerived_Inh	5.53E-04
923	ALL	354198.1	3793218	NonCancerChronicDerived_Inh	5.53E-04
2043	ALL	353606.5	3793270	NonCancerChronicDerived_Inh	5.53E-04
960	ALL	354248.1	3793268	NonCancerChronicDerived_Inh	5.52E-04
2354	ALL	353561.5	3793465	NonCancerChronicDerived_Inh	5.52E-04
980	ALL	354273.1	3793293	NonCancerChronicDerived_Inh	5.51E-04
891	ALL	354173.1	3793193	NonCancerChronicDerived_Inh	5.50E-04
790	ALL	354048.1	3793118	NonCancerChronicDerived_Inh	5.49E-04
188	ALL	353798.1	3792643	NonCancerChronicDerived_Inh	5.48E-04
824	ALL	354098.1	3793143	NonCancerChronicDerived_Inh	5.48E-04
2142	ALL	353591.5	3793330	NonCancerChronicDerived_Inh	5.48E-04
2240	ALL	353576.5	3793390	NonCancerChronicDerived_Inh	5.47E-04
469	ALL	353848.1	3792868	NonCancerChronicDerived_Inh	5.46E-04
282	ALL	353823.1	3792718	NonCancerChronicDerived_Inh	5.46E-04
1036	ALL	354323.1	3793368	NonCancerChronicDerived_Inh	5.45E-04
1740	ALL	353640.5	3793060	NonCancerChronicDerived_Inh	5.45E-04
756	ALL	353998.1	3793093	NonCancerChronicDerived_Inh	5.44E-04
594	ALL	353873.1	3792968	NonCancerChronicDerived_Inh	5.43E-04
2332	ALL	353561.5	3793450	NonCancerChronicDerived_Inh	5.43E-04
1919	ALL	353615.5	3793210	NonCancerChronicDerived_Inh	5.43E-04
1480	ALL	353665.5	3792835	NonCancerChronicDerived_Inh	5.40E-04
2117	ALL	353591.5	3793315	NonCancerChronicDerived_Inh	5.37E-04
2216	ALL	353576.5	3793375	NonCancerChronicDerived_Inh	5.37E-04
657	ALL	353898.1	3793018	NonCancerChronicDerived_Inh	5.36E-04
438	ALL	353848.1	3792843	NonCancerChronicDerived_Inh	5.35E-04
1000	ALL	354298.1	3793318	NonCancerChronicDerived_Inh	5.35E-04
858	ALL	354148.1	3793168	NonCancerChronicDerived_Inh	5.35E-04
722	ALL	353948.1	3793068	NonCancerChronicDerived_Inh	5.35E-04
2484	ALL	353546.5	3793570	NonCancerChronicDerived_Inh	5.34E-04
1711	ALL	353640.5	3793035	NonCancerChronicDerived_Inh	5.34E-04
2310	ALL	353561.5	3793435	NonCancerChronicDerived_Inh	5.34E-04
2467	ALL	353546.5	3793555	NonCancerChronicDerived_Inh	5.33E-04
2449	ALL	353546.5	3793540	NonCancerChronicDerived_Inh	5.32E-04
1889	ALL	353615.5	3793185	NonCancerChronicDerived_Inh	5.31E-04
2430	ALL	353546.5	3793525	NonCancerChronicDerived_Inh	5.30E-04
689	ALL	353923.1	3793043	NonCancerChronicDerived_Inh	5.30E-04
2191	ALL	353576.5	3793360	NonCancerChronicDerived_Inh	5.30E-04
791	ALL	354073.1	3793118	NonCancerChronicDerived_Inh	5.28E-04
757	ALL	354023.1	3793093	NonCancerChronicDerived_Inh	5.28E-04
2092	ALL	353591.5	3793300	NonCancerChronicDerived_Inh	5.28E-04
2411	ALL	353546.5	3793510	NonCancerChronicDerived_Inh	5.28E-04
1068	ALL	354348.1	3793418	NonCancerChronicDerived_Inh	5.27E-04
1451	ALL	353665.5	3792810	NonCancerChronicDerived_Inh	5.26E-04
563	ALL	353873.1	3792943	NonCancerChronicDerived_Inh	5.25E-04
2287	ALL	353561.5	3793420	NonCancerChronicDerived_Inh	5.25E-04
825	ALL	354123.1	3793143	NonCancerChronicDerived_Inh	5.24E-04

1682	ALL	353640.5	3793010	NonCancerChronicDerived_Inh	5.24E-04
2392	ALL	353546.5	3793495	NonCancerChronicDerived_Inh	5.24E-04
2166	ALL	353576.5	3793345	NonCancerChronicDerived_Inh	5.22E-04
407	ALL	353848.1	3792818	NonCancerChronicDerived_Inh	5.21E-04
2067	ALL	353591.5	3793285	NonCancerChronicDerived_Inh	5.19E-04
1859	ALL	353615.5	3793160	NonCancerChronicDerived_Inh	5.19E-04
1307	ALL	353690.5	3792685	NonCancerChronicDerived_Inh	5.18E-04
2373	ALL	353546.5	3793480	NonCancerChronicDerived_Inh	5.18E-04
723	ALL	353973.1	3793068	NonCancerChronicDerived_Inh	5.18E-04
1020	ALL	354323.1	3793343	NonCancerChronicDerived_Inh	5.17E-04
251	ALL	353823.1	3792693	NonCancerChronicDerived_Inh	5.15E-04
2263	ALL	353561.5	3793405	NonCancerChronicDerived_Inh	5.15E-04
1653	ALL	353640.5	3792985	NonCancerChronicDerived_Inh	5.14E-04
2141	ALL	353576.5	3793330	NonCancerChronicDerived_Inh	5.13E-04
2042	ALL	353591.5	3793270	NonCancerChronicDerived_Inh	5.13E-04
892	ALL	354198.1	3793193	NonCancerChronicDerived_Inh	5.13E-04
924	ALL	354223.1	3793218	NonCancerChronicDerived_Inh	5.13E-04
626	ALL	353898.1	3792993	NonCancerChronicDerived_Inh	5.13E-04
941	ALL	354248.1	3793243	NonCancerChronicDerived_Inh	5.12E-04
2353	ALL	353546.5	3793465	NonCancerChronicDerived_Inh	5.12E-04
961	ALL	354273.1	3793268	NonCancerChronicDerived_Inh	5.11E-04
758	ALL	354048.1	3793093	NonCancerChronicDerived_Inh	5.11E-04
1053	ALL	354348.1	3793393	NonCancerChronicDerived_Inh	5.11E-04
1422	ALL	353665.5	3792785	NonCancerChronicDerived_Inh	5.10E-04
2239	ALL	353561.5	3793390	NonCancerChronicDerived_Inh	5.08E-04
1829	ALL	353615.5	3793135	NonCancerChronicDerived_Inh	5.08E-04
792	ALL	354098.1	3793118	NonCancerChronicDerived_Inh	5.07E-04
859	ALL	354173.1	3793168	NonCancerChronicDerived_Inh	5.06E-04
532	ALL	353873.1	3792918	NonCancerChronicDerived_Inh	5.06E-04
2331	ALL	353546.5	3793450	NonCancerChronicDerived_Inh	5.05E-04
690	ALL	353948.1	3793043	NonCancerChronicDerived_Inh	5.05E-04
2116	ALL	353576.5	3793315	NonCancerChronicDerived_Inh	5.04E-04
1250	ALL	353715.5	3792635	NonCancerChronicDerived_Inh	5.04E-04
1624	ALL	353640.5	3792960	NonCancerChronicDerived_Inh	5.04E-04
376	ALL	353848.1	3792793	NonCancerChronicDerived_Inh	5.02E-04
724	ALL	353998.1	3793068	NonCancerChronicDerived_Inh	5.02E-04
658	ALL	353923.1	3793018	NonCancerChronicDerived_Inh	5.02E-04
2483	ALL	353531.5	3793570	NonCancerChronicDerived_Inh	5.01E-04
2215	ALL	353561.5	3793375	NonCancerChronicDerived_Inh	5.01E-04
981	ALL	354298.1	3793293	NonCancerChronicDerived_Inh	5.00E-04
2466	ALL	353531.5	3793555	NonCancerChronicDerived_Inh	4.99E-04
2309	ALL	353546.5	3793435	NonCancerChronicDerived_Inh	4.99E-04
2448	ALL	353531.5	3793540	NonCancerChronicDerived_Inh	4.99E-04
1799	ALL	353615.5	3793110	NonCancerChronicDerived_Inh	4.97E-04
2429	ALL	353531.5	3793525	NonCancerChronicDerived_Inh	4.97E-04
2091	ALL	353576.5	3793300	NonCancerChronicDerived_Inh	4.96E-04
2190	ALL	353561.5	3793360	NonCancerChronicDerived_Inh	4.95E-04

2410	ALL	353531.5	3793510	NonCancerChronicDerived_Inh	4.95E-04
1595	ALL	353640.5	3792935	NonCancerChronicDerived_Inh	4.94E-04
2286	ALL	353546.5	3793420	NonCancerChronicDerived_Inh	4.94E-04
595	ALL	353898.1	3792968	NonCancerChronicDerived_Inh	4.94E-04
826	ALL	354148.1	3793143	NonCancerChronicDerived_Inh	4.93E-04
1037	ALL	354348.1	3793368	NonCancerChronicDerived_Inh	4.92E-04
759	ALL	354073.1	3793093	NonCancerChronicDerived_Inh	4.92E-04
2391	ALL	353531.5	3793495	NonCancerChronicDerived_Inh	4.92E-04
1393	ALL	353665.5	3792760	NonCancerChronicDerived_Inh	4.90E-04
2165	ALL	353561.5	3793345	NonCancerChronicDerived_Inh	4.90E-04
2066	ALL	353576.5	3793285	NonCancerChronicDerived_Inh	4.88E-04
2262	ALL	353546.5	3793405	NonCancerChronicDerived_Inh	4.88E-04
1001	ALL	354323.1	3793318	NonCancerChronicDerived_Inh	4.88E-04
1769	ALL	353615.5	3793085	NonCancerChronicDerived_Inh	4.88E-04
2372	ALL	353531.5	3793480	NonCancerChronicDerived_Inh	4.88E-04
501	ALL	353873.1	3792893	NonCancerChronicDerived_Inh	4.87E-04
725	ALL	354023.1	3793068	NonCancerChronicDerived_Inh	4.87E-04
691	ALL	353973.1	3793043	NonCancerChronicDerived_Inh	4.85E-04
1566	ALL	353640.5	3792910	NonCancerChronicDerived_Inh	4.85E-04
793	ALL	354123.1	3793118	NonCancerChronicDerived_Inh	4.85E-04
1918	ALL	353590.5	3793210	NonCancerChronicDerived_Inh	4.85E-04
345	ALL	353848.1	3792768	NonCancerChronicDerived_Inh	4.84E-04
2140	ALL	353561.5	3793330	NonCancerChronicDerived_Inh	4.83E-04
2352	ALL	353531.5	3793465	NonCancerChronicDerived_Inh	4.83E-04
2041	ALL	353576.5	3793270	NonCancerChronicDerived_Inh	4.82E-04
2238	ALL	353546.5	3793390	NonCancerChronicDerived_Inh	4.81E-04
627	ALL	353923.1	3792993	NonCancerChronicDerived_Inh	4.78E-04
893	ALL	354223.1	3793193	NonCancerChronicDerived_Inh	4.78E-04
1739	ALL	353615.5	3793060	NonCancerChronicDerived_Inh	4.78E-04
659	ALL	353948.1	3793018	NonCancerChronicDerived_Inh	4.77E-04
2330	ALL	353531.5	3793450	NonCancerChronicDerived_Inh	4.77E-04
925	ALL	354248.1	3793218	NonCancerChronicDerived_Inh	4.76E-04
2115	ALL	353561.5	3793315	NonCancerChronicDerived_Inh	4.76E-04
942	ALL	354273.1	3793243	NonCancerChronicDerived_Inh	4.76E-04
1537	ALL	353640.5	3792885	NonCancerChronicDerived_Inh	4.75E-04
1888	ALL	353590.5	3793185	NonCancerChronicDerived_Inh	4.75E-04
860	ALL	354198.1	3793168	NonCancerChronicDerived_Inh	4.75E-04
564	ALL	353898.1	3792943	NonCancerChronicDerived_Inh	4.74E-04
2214	ALL	353546.5	3793375	NonCancerChronicDerived_Inh	4.74E-04
220	ALL	353823.1	3792668	NonCancerChronicDerived_Inh	4.73E-04
1069	ALL	354373.1	3793418	NonCancerChronicDerived_Inh	4.72E-04
470	ALL	353873.1	3792868	NonCancerChronicDerived_Inh	4.72E-04
760	ALL	354098.1	3793093	NonCancerChronicDerived_Inh	4.72E-04
2308	ALL	353531.5	3793435	NonCancerChronicDerived_Inh	4.71E-04
726	ALL	354048.1	3793068	NonCancerChronicDerived_Inh	4.71E-04
2482	ALL	353516.5	3793570	NonCancerChronicDerived_Inh	4.71E-04
1021	ALL	354348.1	3793343	NonCancerChronicDerived_Inh	4.70E-04

2090	ALL	353561.5	3793300	NonCancerChronicDerived_Inh	4.69E-04
692	ALL	353998.1	3793043	NonCancerChronicDerived_Inh	4.69E-04
2465	ALL	353516.5	3793555	NonCancerChronicDerived_Inh	4.69E-04
2189	ALL	353546.5	3793360	NonCancerChronicDerived_Inh	4.68E-04
1710	ALL	353615.5	3793035	NonCancerChronicDerived_Inh	4.68E-04
962	ALL	354298.1	3793268	NonCancerChronicDerived_Inh	4.68E-04
2447	ALL	353516.5	3793540	NonCancerChronicDerived_Inh	4.67E-04
827	ALL	354173.1	3793143	NonCancerChronicDerived_Inh	4.67E-04
2285	ALL	353531.5	3793420	NonCancerChronicDerived_Inh	4.67E-04
1364	ALL	353665.5	3792735	NonCancerChronicDerived_Inh	4.67E-04
2428	ALL	353516.5	3793525	NonCancerChronicDerived_Inh	4.66E-04
1858	ALL	353590.5	3793160	NonCancerChronicDerived_Inh	4.64E-04
2409	ALL	353516.5	3793510	NonCancerChronicDerived_Inh	4.64E-04
1508	ALL	353640.5	3792860	NonCancerChronicDerived_Inh	4.64E-04
2371	ALL	353516.5	3793480	NonCancerChronicDerived_Inh	4.64E-04
2390	ALL	353516.5	3793495	NonCancerChronicDerived_Inh	4.63E-04
314	ALL	353848.1	3792743	NonCancerChronicDerived_Inh	4.62E-04
439	ALL	353873.1	3792843	NonCancerChronicDerived_Inh	4.62E-04
2261	ALL	353531.5	3793405	NonCancerChronicDerived_Inh	4.62E-04
2065	ALL	353561.5	3793285	NonCancerChronicDerived_Inh	4.62E-04
2351	ALL	353516.5	3793465	NonCancerChronicDerived_Inh	4.62E-04
2164	ALL	353546.5	3793345	NonCancerChronicDerived_Inh	4.61E-04
1054	ALL	354373.1	3793393	NonCancerChronicDerived_Inh	4.60E-04
596	ALL	353923.1	3792968	NonCancerChronicDerived_Inh	4.60E-04
982	ALL	354323.1	3793293	NonCancerChronicDerived_Inh	4.59E-04
660	ALL	353973.1	3793018	NonCancerChronicDerived_Inh	4.58E-04
1681	ALL	353615.5	3793010	NonCancerChronicDerived_Inh	4.58E-04
794	ALL	354148.1	3793118	NonCancerChronicDerived_Inh	4.57E-04
533	ALL	353898.1	3792918	NonCancerChronicDerived_Inh	4.55E-04
2237	ALL	353531.5	3793390	NonCancerChronicDerived_Inh	4.55E-04
2040	ALL	353561.5	3793270	NonCancerChronicDerived_Inh	4.55E-04
2329	ALL	353516.5	3793450	NonCancerChronicDerived_Inh	4.55E-04
2139	ALL	353546.5	3793330	NonCancerChronicDerived_Inh	4.54E-04
727	ALL	354073.1	3793068	NonCancerChronicDerived_Inh	4.54E-04
1828	ALL	353590.5	3793135	NonCancerChronicDerived_Inh	4.54E-04
693	ALL	354023.1	3793043	NonCancerChronicDerived_Inh	4.54E-04
628	ALL	353948.1	3792993	NonCancerChronicDerived_Inh	4.53E-04
1278	ALL	353690.5	3792660	NonCancerChronicDerived_Inh	4.52E-04
1479	ALL	353640.5	3792835	NonCancerChronicDerived_Inh	4.50E-04
761	ALL	354123.1	3793093	NonCancerChronicDerived_Inh	4.50E-04
2446	ALL	353501.5	3793540	NonCancerChronicDerived_Inh	4.50E-04
2427	ALL	353501.5	3793525	NonCancerChronicDerived_Inh	4.49E-04
1652	ALL	353615.5	3792985	NonCancerChronicDerived_Inh	4.49E-04
2213	ALL	353531.5	3793375	NonCancerChronicDerived_Inh	4.49E-04
408	ALL	353873.1	3792818	NonCancerChronicDerived_Inh	4.48E-04
2464	ALL	353501.5	3793555	NonCancerChronicDerived_Inh	4.48E-04
2307	ALL	353516.5	3793435	NonCancerChronicDerived_Inh	4.48E-04

2114	ALL	353546.5	3793315	NonCancerChronicDerived_Inh	4.48E-04
2481	ALL	353501.5	3793570	NonCancerChronicDerived_Inh	4.48E-04
2408	ALL	353501.5	3793510	NonCancerChronicDerived_Inh	4.47E-04
1002	ALL	354348.1	3793318	NonCancerChronicDerived_Inh	4.47E-04
1038	ALL	354373.1	3793368	NonCancerChronicDerived_Inh	4.46E-04
894	ALL	354248.1	3793193	NonCancerChronicDerived_Inh	4.46E-04
2389	ALL	353501.5	3793495	NonCancerChronicDerived_Inh	4.46E-04
2370	ALL	353501.5	3793480	NonCancerChronicDerived_Inh	4.45E-04
1798	ALL	353590.5	3793110	NonCancerChronicDerived_Inh	4.44E-04
861	ALL	354223.1	3793168	NonCancerChronicDerived_Inh	4.44E-04
926	ALL	354273.1	3793218	NonCancerChronicDerived_Inh	4.43E-04
2284	ALL	353516.5	3793420	NonCancerChronicDerived_Inh	4.42E-04
2188	ALL	353531.5	3793360	NonCancerChronicDerived_Inh	4.42E-04
661	ALL	353998.1	3793018	NonCancerChronicDerived_Inh	4.42E-04
2350	ALL	353501.5	3793465	NonCancerChronicDerived_Inh	4.41E-04
2089	ALL	353546.5	3793300	NonCancerChronicDerived_Inh	4.41E-04
283	ALL	353848.1	3792718	NonCancerChronicDerived_Inh	4.40E-04
828	ALL	354198.1	3793143	NonCancerChronicDerived_Inh	4.40E-04
1623	ALL	353615.5	3792960	NonCancerChronicDerived_Inh	4.40E-04
565	ALL	353923.1	3792943	NonCancerChronicDerived_Inh	4.39E-04
694	ALL	354048.1	3793043	NonCancerChronicDerived_Inh	4.39E-04
502	ALL	353898.1	3792893	NonCancerChronicDerived_Inh	4.38E-04
943	ALL	354298.1	3793243	NonCancerChronicDerived_Inh	4.38E-04
2260	ALL	353516.5	3793405	NonCancerChronicDerived_Inh	4.36E-04
1335	ALL	353665.5	3792710	NonCancerChronicDerived_Inh	4.36E-04
1450	ALL	353640.5	3792810	NonCancerChronicDerived_Inh	4.36E-04
728	ALL	354098.1	3793068	NonCancerChronicDerived_Inh	4.36E-04
2426	ALL	353486.5	3793525	NonCancerChronicDerived_Inh	4.36E-04
2163	ALL	353531.5	3793345	NonCancerChronicDerived_Inh	4.36E-04
2445	ALL	353486.5	3793540	NonCancerChronicDerived_Inh	4.35E-04
795	ALL	354173.1	3793118	NonCancerChronicDerived_Inh	4.35E-04
1768	ALL	353590.5	3793085	NonCancerChronicDerived_Inh	4.35E-04
157	ALL	353798.1	3792618	NonCancerChronicDerived_Inh	4.35E-04
2064	ALL	353546.5	3793285	NonCancerChronicDerived_Inh	4.34E-04
629	ALL	353973.1	3792993	NonCancerChronicDerived_Inh	4.34E-04
2407	ALL	353486.5	3793510	NonCancerChronicDerived_Inh	4.34E-04
597	ALL	353948.1	3792968	NonCancerChronicDerived_Inh	4.33E-04
2463	ALL	353486.5	3793555	NonCancerChronicDerived_Inh	4.33E-04
2328	ALL	353501.5	3793450	NonCancerChronicDerived_Inh	4.33E-04
963	ALL	354323.1	3793268	NonCancerChronicDerived_Inh	4.32E-04
2388	ALL	353486.5	3793495	NonCancerChronicDerived_Inh	4.31E-04
2236	ALL	353516.5	3793390	NonCancerChronicDerived_Inh	4.30E-04
1594	ALL	353615.5	3792935	NonCancerChronicDerived_Inh	4.30E-04
2480	ALL	353486.5	3793570	NonCancerChronicDerived_Inh	4.30E-04
377	ALL	353873.1	3792793	NonCancerChronicDerived_Inh	4.30E-04
2138	ALL	353531.5	3793330	NonCancerChronicDerived_Inh	4.29E-04
2369	ALL	353486.5	3793480	NonCancerChronicDerived_Inh	4.29E-04

2039	ALL	353546.5	3793270	NonCancerChronicDerived_Inh	4.29E-04
1917	ALL	353565.5	3793210	NonCancerChronicDerived_Inh	4.28E-04
662	ALL	354023.1	3793018	NonCancerChronicDerived_Inh	4.27E-04
1022	ALL	354373.1	3793343	NonCancerChronicDerived_Inh	4.27E-04
1070	ALL	354398.1	3793418	NonCancerChronicDerived_Inh	4.26E-04
2496	ALL	353486.5	3793585	NonCancerChronicDerived_Inh	4.26E-04
762	ALL	354148.1	3793093	NonCancerChronicDerived_Inh	4.26E-04
1738	ALL	353590.5	3793060	NonCancerChronicDerived_Inh	4.25E-04
2306	ALL	353501.5	3793435	NonCancerChronicDerived_Inh	4.25E-04
2212	ALL	353516.5	3793375	NonCancerChronicDerived_Inh	4.25E-04
471	ALL	353898.1	3792868	NonCancerChronicDerived_Inh	4.24E-04
2462	ALL	353471.5	3793555	NonCancerChronicDerived_Inh	4.24E-04
983	ALL	354348.1	3793293	NonCancerChronicDerived_Inh	4.24E-04
2349	ALL	353486.5	3793465	NonCancerChronicDerived_Inh	4.24E-04
2026	ALL	353546.5	3793255	NonCancerChronicDerived_Inh	4.23E-04
695	ALL	354073.1	3793043	NonCancerChronicDerived_Inh	4.23E-04
2113	ALL	353531.5	3793315	NonCancerChronicDerived_Inh	4.23E-04
2444	ALL	353471.5	3793540	NonCancerChronicDerived_Inh	4.23E-04
2479	ALL	353471.5	3793570	NonCancerChronicDerived_Inh	4.22E-04
2425	ALL	353471.5	3793525	NonCancerChronicDerived_Inh	4.22E-04
534	ALL	353923.1	3792918	NonCancerChronicDerived_Inh	4.21E-04
2406	ALL	353471.5	3793510	NonCancerChronicDerived_Inh	4.21E-04
1421	ALL	353640.5	3792785	NonCancerChronicDerived_Inh	4.21E-04
1887	ALL	353565.5	3793185	NonCancerChronicDerived_Inh	4.21E-04
1565	ALL	353615.5	3792910	NonCancerChronicDerived_Inh	4.20E-04
2387	ALL	353471.5	3793495	NonCancerChronicDerived_Inh	4.20E-04
2283	ALL	353501.5	3793420	NonCancerChronicDerived_Inh	4.19E-04
2187	ALL	353516.5	3793360	NonCancerChronicDerived_Inh	4.18E-04
189	ALL	353823.1	3792643	NonCancerChronicDerived_Inh	4.18E-04
2368	ALL	353471.5	3793480	NonCancerChronicDerived_Inh	4.18E-04
2495	ALL	353471.5	3793585	NonCancerChronicDerived_Inh	4.18E-04
630	ALL	353998.1	3792993	NonCancerChronicDerived_Inh	4.18E-04
1857	ALL	353565.5	3793160	NonCancerChronicDerived_Inh	4.18E-04
729	ALL	354123.1	3793068	NonCancerChronicDerived_Inh	4.17E-04
252	ALL	353848.1	3792693	NonCancerChronicDerived_Inh	4.16E-04
2088	ALL	353531.5	3793300	NonCancerChronicDerived_Inh	4.16E-04
895	ALL	354273.1	3793193	NonCancerChronicDerived_Inh	4.16E-04
862	ALL	354248.1	3793168	NonCancerChronicDerived_Inh	4.16E-04
1709	ALL	353590.5	3793035	NonCancerChronicDerived_Inh	4.16E-04
2478	ALL	353456.5	3793570	NonCancerChronicDerived_Inh	4.16E-04
2461	ALL	353456.5	3793555	NonCancerChronicDerived_Inh	4.15E-04
1055	ALL	354398.1	3793393	NonCancerChronicDerived_Inh	4.15E-04
346	ALL	353873.1	3792768	NonCancerChronicDerived_Inh	4.15E-04
2327	ALL	353486.5	3793450	NonCancerChronicDerived_Inh	4.14E-04
566	ALL	353948.1	3792943	NonCancerChronicDerived_Inh	4.13E-04
829	ALL	354223.1	3793143	NonCancerChronicDerived_Inh	4.13E-04
663	ALL	354048.1	3793018	NonCancerChronicDerived_Inh	4.13E-04

2259	ALL	353501.5	3793405	NonCancerChronicDerived_Inh	4.13E-04
2494	ALL	353456.5	3793585	NonCancerChronicDerived_Inh	4.13E-04
598	ALL	353973.1	3792968	NonCancerChronicDerived_Inh	4.13E-04
2162	ALL	353516.5	3793345	NonCancerChronicDerived_Inh	4.13E-04
440	ALL	353898.1	3792843	NonCancerChronicDerived_Inh	4.13E-04
2348	ALL	353471.5	3793465	NonCancerChronicDerived_Inh	4.12E-04
2443	ALL	353456.5	3793540	NonCancerChronicDerived_Inh	4.12E-04
796	ALL	354198.1	3793118	NonCancerChronicDerived_Inh	4.11E-04
2424	ALL	353456.5	3793525	NonCancerChronicDerived_Inh	4.10E-04
2477	ALL	353441.5	3793570	NonCancerChronicDerived_Inh	4.10E-04
2493	ALL	353441.5	3793585	NonCancerChronicDerived_Inh	4.10E-04
1536	ALL	353615.5	3792885	NonCancerChronicDerived_Inh	4.10E-04
927	ALL	354298.1	3793218	NonCancerChronicDerived_Inh	4.10E-04
2063	ALL	353531.5	3793285	NonCancerChronicDerived_Inh	4.10E-04
2405	ALL	353456.5	3793510	NonCancerChronicDerived_Inh	4.10E-04
2460	ALL	353441.5	3793555	NonCancerChronicDerived_Inh	4.09E-04
1827	ALL	353565.5	3793135	NonCancerChronicDerived_Inh	4.09E-04
1003	ALL	354373.1	3793318	NonCancerChronicDerived_Inh	4.08E-04
2235	ALL	353501.5	3793390	NonCancerChronicDerived_Inh	4.08E-04
2386	ALL	353456.5	3793495	NonCancerChronicDerived_Inh	4.08E-04
763	ALL	354173.1	3793093	NonCancerChronicDerived_Inh	4.07E-04
944	ALL	354323.1	3793243	NonCancerChronicDerived_Inh	4.07E-04
1680	ALL	353590.5	3793010	NonCancerChronicDerived_Inh	4.07E-04
2137	ALL	353516.5	3793330	NonCancerChronicDerived_Inh	4.07E-04
696	ALL	354098.1	3793043	NonCancerChronicDerived_Inh	4.07E-04
2442	ALL	353441.5	3793540	NonCancerChronicDerived_Inh	4.05E-04
2367	ALL	353456.5	3793480	NonCancerChronicDerived_Inh	4.05E-04
2038	ALL	353531.5	3793270	NonCancerChronicDerived_Inh	4.05E-04
1039	ALL	354398.1	3793368	NonCancerChronicDerived_Inh	4.04E-04
2305	ALL	353486.5	3793435	NonCancerChronicDerived_Inh	4.04E-04
503	ALL	353923.1	3792893	NonCancerChronicDerived_Inh	4.04E-04
631	ALL	354023.1	3792993	NonCancerChronicDerived_Inh	4.03E-04
1392	ALL	353640.5	3792760	NonCancerChronicDerived_Inh	4.03E-04
2423	ALL	353441.5	3793525	NonCancerChronicDerived_Inh	4.02E-04
2211	ALL	353501.5	3793375	NonCancerChronicDerived_Inh	4.02E-04
2326	ALL	353471.5	3793450	NonCancerChronicDerived_Inh	4.02E-04
2112	ALL	353516.5	3793315	NonCancerChronicDerived_Inh	4.01E-04
964	ALL	354348.1	3793268	NonCancerChronicDerived_Inh	4.01E-04
2404	ALL	353441.5	3793510	NonCancerChronicDerived_Inh	4.01E-04
2025	ALL	353531.5	3793255	NonCancerChronicDerived_Inh	4.00E-04
1797	ALL	353565.5	3793110	NonCancerChronicDerived_Inh	4.00E-04
409	ALL	353898.1	3792818	NonCancerChronicDerived_Inh	3.99E-04
1507	ALL	353615.5	3792860	NonCancerChronicDerived_Inh	3.99E-04
2347	ALL	353456.5	3793465	NonCancerChronicDerived_Inh	3.99E-04
664	ALL	354073.1	3793018	NonCancerChronicDerived_Inh	3.99E-04
1651	ALL	353590.5	3792985	NonCancerChronicDerived_Inh	3.99E-04
1306	ALL	353665.5	3792685	NonCancerChronicDerived_Inh	3.98E-04

730	ALL	354148.1	3793068	NonCancerChronicDerived_Inh	3.98E-04
2492	ALL	353426.5	3793585	NonCancerChronicDerived_Inh	3.98E-04
2282	ALL	353486.5	3793420	NonCancerChronicDerived_Inh	3.98E-04
2476	ALL	353426.5	3793570	NonCancerChronicDerived_Inh	3.97E-04
2385	ALL	353441.5	3793495	NonCancerChronicDerived_Inh	3.97E-04
2186	ALL	353501.5	3793360	NonCancerChronicDerived_Inh	3.97E-04
1916	ALL	353540.5	3793210	NonCancerChronicDerived_Inh	3.96E-04
599	ALL	353998.1	3792968	NonCancerChronicDerived_Inh	3.95E-04
535	ALL	353948.1	3792918	NonCancerChronicDerived_Inh	3.95E-04
2459	ALL	353426.5	3793555	NonCancerChronicDerived_Inh	3.95E-04
2087	ALL	353516.5	3793300	NonCancerChronicDerived_Inh	3.95E-04
315	ALL	353873.1	3792743	NonCancerChronicDerived_Inh	3.95E-04
567	ALL	353973.1	3792943	NonCancerChronicDerived_Inh	3.93E-04
2441	ALL	353426.5	3793540	NonCancerChronicDerived_Inh	3.93E-04
2366	ALL	353441.5	3793480	NonCancerChronicDerived_Inh	3.92E-04
2258	ALL	353486.5	3793405	NonCancerChronicDerived_Inh	3.92E-04
1767	ALL	353565.5	3793085	NonCancerChronicDerived_Inh	3.92E-04
2304	ALL	353471.5	3793435	NonCancerChronicDerived_Inh	3.91E-04
2161	ALL	353501.5	3793345	NonCancerChronicDerived_Inh	3.91E-04
697	ALL	354123.1	3793043	NonCancerChronicDerived_Inh	3.90E-04
632	ALL	354048.1	3792993	NonCancerChronicDerived_Inh	3.90E-04
863	ALL	354273.1	3793168	NonCancerChronicDerived_Inh	3.90E-04
1622	ALL	353590.5	3792960	NonCancerChronicDerived_Inh	3.90E-04
472	ALL	353923.1	3792868	NonCancerChronicDerived_Inh	3.89E-04
2422	ALL	353426.5	3793525	NonCancerChronicDerived_Inh	3.89E-04
125	ALL	353773.1	3792593	NonCancerChronicDerived_Inh	3.89E-04
984	ALL	354373.1	3793293	NonCancerChronicDerived_Inh	3.89E-04
797	ALL	354223.1	3793118	NonCancerChronicDerived_Inh	3.89E-04
1023	ALL	354398.1	3793343	NonCancerChronicDerived_Inh	3.89E-04
2062	ALL	353516.5	3793285	NonCancerChronicDerived_Inh	3.89E-04
830	ALL	354248.1	3793143	NonCancerChronicDerived_Inh	3.88E-04
2325	ALL	353456.5	3793450	NonCancerChronicDerived_Inh	3.88E-04
1071	ALL	354423.1	3793418	NonCancerChronicDerived_Inh	3.87E-04
2234	ALL	353486.5	3793390	NonCancerChronicDerived_Inh	3.87E-04
1478	ALL	353615.5	3792835	NonCancerChronicDerived_Inh	3.87E-04
2136	ALL	353501.5	3793330	NonCancerChronicDerived_Inh	3.86E-04
1221	ALL	353715.5	3792610	NonCancerChronicDerived_Inh	3.86E-04
221	ALL	353848.1	3792668	NonCancerChronicDerived_Inh	3.86E-04
2403	ALL	353426.5	3793510	NonCancerChronicDerived_Inh	3.86E-04
764	ALL	354198.1	3793093	NonCancerChronicDerived_Inh	3.86E-04
1886	ALL	353540.5	3793185	NonCancerChronicDerived_Inh	3.85E-04
896	ALL	354298.1	3793193	NonCancerChronicDerived_Inh	3.85E-04
2037	ALL	353516.5	3793270	NonCancerChronicDerived_Inh	3.84E-04
665	ALL	354098.1	3793018	NonCancerChronicDerived_Inh	3.84E-04
2475	ALL	353411.5	3793570	NonCancerChronicDerived_Inh	3.84E-04
2491	ALL	353411.5	3793585	NonCancerChronicDerived_Inh	3.84E-04
2346	ALL	353441.5	3793465	NonCancerChronicDerived_Inh	3.83E-04

928	ALL	354323.1	3793218	NonCancerChronicDerived_Inh	3.83E-04
1737	ALL	353565.5	3793060	NonCancerChronicDerived_Inh	3.83E-04
2210	ALL	353486.5	3793375	NonCancerChronicDerived_Inh	3.82E-04
2384	ALL	353426.5	3793495	NonCancerChronicDerived_Inh	3.81E-04
1363	ALL	353640.5	3792735	NonCancerChronicDerived_Inh	3.81E-04
378	ALL	353898.1	3792793	NonCancerChronicDerived_Inh	3.81E-04
2458	ALL	353411.5	3793555	NonCancerChronicDerived_Inh	3.81E-04
2281	ALL	353471.5	3793420	NonCancerChronicDerived_Inh	3.81E-04
2111	ALL	353501.5	3793315	NonCancerChronicDerived_Inh	3.81E-04
1593	ALL	353590.5	3792935	NonCancerChronicDerived_Inh	3.81E-04
600	ALL	354023.1	3792968	NonCancerChronicDerived_Inh	3.80E-04
2024	ALL	353516.5	3793255	NonCancerChronicDerived_Inh	3.80E-04
945	ALL	354348.1	3793243	NonCancerChronicDerived_Inh	3.79E-04
1249	ALL	353690.5	3792635	NonCancerChronicDerived_Inh	3.79E-04
731	ALL	354173.1	3793068	NonCancerChronicDerived_Inh	3.79E-04
504	ALL	353948.1	3792893	NonCancerChronicDerived_Inh	3.79E-04
1056	ALL	354423.1	3793393	NonCancerChronicDerived_Inh	3.78E-04
441	ALL	353923.1	3792843	NonCancerChronicDerived_Inh	3.77E-04
633	ALL	354073.1	3792993	NonCancerChronicDerived_Inh	3.77E-04
2303	ALL	353456.5	3793435	NonCancerChronicDerived_Inh	3.77E-04
2185	ALL	353486.5	3793360	NonCancerChronicDerived_Inh	3.77E-04
2440	ALL	353411.5	3793540	NonCancerChronicDerived_Inh	3.77E-04
284	ALL	353873.1	3792718	NonCancerChronicDerived_Inh	3.76E-04
568	ALL	353998.1	3792943	NonCancerChronicDerived_Inh	3.76E-04
2365	ALL	353426.5	3793480	NonCancerChronicDerived_Inh	3.76E-04
2086	ALL	353501.5	3793300	NonCancerChronicDerived_Inh	3.75E-04
536	ALL	353973.1	3792918	NonCancerChronicDerived_Inh	3.75E-04
1004	ALL	354398.1	3793318	NonCancerChronicDerived_Inh	3.74E-04
1708	ALL	353565.5	3793035	NonCancerChronicDerived_Inh	3.74E-04
698	ALL	354148.1	3793043	NonCancerChronicDerived_Inh	3.73E-04
1449	ALL	353615.5	3792810	NonCancerChronicDerived_Inh	3.73E-04
2257	ALL	353471.5	3793405	NonCancerChronicDerived_Inh	3.73E-04
1856	ALL	353540.5	3793160	NonCancerChronicDerived_Inh	3.73E-04
2421	ALL	353411.5	3793525	NonCancerChronicDerived_Inh	3.72E-04
2324	ALL	353441.5	3793450	NonCancerChronicDerived_Inh	3.72E-04
2490	ALL	353396.5	3793585	NonCancerChronicDerived_Inh	3.72E-04
1564	ALL	353590.5	3792910	NonCancerChronicDerived_Inh	3.72E-04
2160	ALL	353486.5	3793345	NonCancerChronicDerived_Inh	3.72E-04
965	ALL	354373.1	3793268	NonCancerChronicDerived_Inh	3.71E-04
2474	ALL	353396.5	3793570	NonCancerChronicDerived_Inh	3.71E-04
2061	ALL	353501.5	3793285	NonCancerChronicDerived_Inh	3.70E-04
347	ALL	353898.1	3792768	NonCancerChronicDerived_Inh	3.69E-04
1040	ALL	354423.1	3793368	NonCancerChronicDerived_Inh	3.69E-04
2345	ALL	353426.5	3793465	NonCancerChronicDerived_Inh	3.68E-04
666	ALL	354123.1	3793018	NonCancerChronicDerived_Inh	3.68E-04
2233	ALL	353471.5	3793390	NonCancerChronicDerived_Inh	3.68E-04
2402	ALL	353411.5	3793510	NonCancerChronicDerived_Inh	3.68E-04

765	ALL	354223.1	3793093	NonCancerChronicDerived_Inh	3.68E-04
2135	ALL	353486.5	3793330	NonCancerChronicDerived_Inh	3.67E-04
2280	ALL	353456.5	3793420	NonCancerChronicDerived_Inh	3.67E-04
2457	ALL	353396.5	3793555	NonCancerChronicDerived_Inh	3.67E-04
601	ALL	354048.1	3792968	NonCancerChronicDerived_Inh	3.66E-04
1679	ALL	353565.5	3793010	NonCancerChronicDerived_Inh	3.66E-04
798	ALL	354248.1	3793118	NonCancerChronicDerived_Inh	3.66E-04
1826	ALL	353540.5	3793135	NonCancerChronicDerived_Inh	3.65E-04
2036	ALL	353501.5	3793270	NonCancerChronicDerived_Inh	3.65E-04
831	ALL	354273.1	3793143	NonCancerChronicDerived_Inh	3.65E-04
1915	ALL	353515.5	3793210	NonCancerChronicDerived_Inh	3.64E-04
410	ALL	353923.1	3792818	NonCancerChronicDerived_Inh	3.64E-04
473	ALL	353948.1	3792868	NonCancerChronicDerived_Inh	3.64E-04
2383	ALL	353411.5	3793495	NonCancerChronicDerived_Inh	3.63E-04
2209	ALL	353471.5	3793375	NonCancerChronicDerived_Inh	3.63E-04
634	ALL	354098.1	3792993	NonCancerChronicDerived_Inh	3.63E-04
864	ALL	354298.1	3793168	NonCancerChronicDerived_Inh	3.62E-04
2110	ALL	353486.5	3793315	NonCancerChronicDerived_Inh	3.62E-04
1796	ALL	353540.5	3793110	NonCancerChronicDerived_Inh	3.62E-04
1535	ALL	353590.5	3792885	NonCancerChronicDerived_Inh	3.62E-04
2302	ALL	353441.5	3793435	NonCancerChronicDerived_Inh	3.62E-04
897	ALL	354323.1	3793193	NonCancerChronicDerived_Inh	3.62E-04
2439	ALL	353396.5	3793540	NonCancerChronicDerived_Inh	3.61E-04
569	ALL	354023.1	3792943	NonCancerChronicDerived_Inh	3.61E-04
2023	ALL	353501.5	3793255	NonCancerChronicDerived_Inh	3.61E-04
2489	ALL	353381.5	3793585	NonCancerChronicDerived_Inh	3.60E-04
2364	ALL	353411.5	3793480	NonCancerChronicDerived_Inh	3.60E-04
929	ALL	354348.1	3793218	NonCancerChronicDerived_Inh	3.60E-04
732	ALL	354198.1	3793068	NonCancerChronicDerived_Inh	3.59E-04
158	ALL	353823.1	3792618	NonCancerChronicDerived_Inh	3.59E-04
505	ALL	353973.1	3792893	NonCancerChronicDerived_Inh	3.59E-04
1420	ALL	353615.5	3792785	NonCancerChronicDerived_Inh	3.59E-04
537	ALL	353998.1	3792918	NonCancerChronicDerived_Inh	3.59E-04
985	ALL	354398.1	3793293	NonCancerChronicDerived_Inh	3.58E-04
2184	ALL	353471.5	3793360	NonCancerChronicDerived_Inh	3.58E-04
1650	ALL	353565.5	3792985	NonCancerChronicDerived_Inh	3.57E-04
1024	ALL	354423.1	3793343	NonCancerChronicDerived_Inh	3.57E-04
2085	ALL	353486.5	3793300	NonCancerChronicDerived_Inh	3.57E-04
2256	ALL	353456.5	3793405	NonCancerChronicDerived_Inh	3.57E-04
253	ALL	353873.1	3792693	NonCancerChronicDerived_Inh	3.57E-04
1766	ALL	353540.5	3793085	NonCancerChronicDerived_Inh	3.57E-04
2323	ALL	353426.5	3793450	NonCancerChronicDerived_Inh	3.56E-04
1334	ALL	353640.5	3792710	NonCancerChronicDerived_Inh	3.56E-04
2420	ALL	353396.5	3793525	NonCancerChronicDerived_Inh	3.56E-04
699	ALL	354173.1	3793043	NonCancerChronicDerived_Inh	3.55E-04
1885	ALL	353515.5	3793185	NonCancerChronicDerived_Inh	3.55E-04
1277	ALL	353665.5	3792660	NonCancerChronicDerived_Inh	3.55E-04

2473	ALL	353381.5	3793570	NonCancerChronicDerived_Inh	3.55E-04
2159	ALL	353471.5	3793345	NonCancerChronicDerived_Inh	3.54E-04
2279	ALL	353441.5	3793420	NonCancerChronicDerived_Inh	3.53E-04
946	ALL	354373.1	3793243	NonCancerChronicDerived_Inh	3.53E-04
2344	ALL	353411.5	3793465	NonCancerChronicDerived_Inh	3.53E-04
602	ALL	354073.1	3792968	NonCancerChronicDerived_Inh	3.53E-04
2060	ALL	353486.5	3793285	NonCancerChronicDerived_Inh	3.52E-04
667	ALL	354148.1	3793018	NonCancerChronicDerived_Inh	3.52E-04
2401	ALL	353396.5	3793510	NonCancerChronicDerived_Inh	3.51E-04
2232	ALL	353456.5	3793390	NonCancerChronicDerived_Inh	3.51E-04
1506	ALL	353590.5	3792860	NonCancerChronicDerived_Inh	3.51E-04
2456	ALL	353381.5	3793555	NonCancerChronicDerived_Inh	3.50E-04
316	ALL	353898.1	3792743	NonCancerChronicDerived_Inh	3.50E-04
442	ALL	353948.1	3792843	NonCancerChronicDerived_Inh	3.50E-04
190	ALL	353848.1	3792643	NonCancerChronicDerived_Inh	3.49E-04
2134	ALL	353471.5	3793330	NonCancerChronicDerived_Inh	3.49E-04
1621	ALL	353565.5	3792960	NonCancerChronicDerived_Inh	3.49E-04
1736	ALL	353540.5	3793060	NonCancerChronicDerived_Inh	3.49E-04
635	ALL	354123.1	3792993	NonCancerChronicDerived_Inh	3.49E-04
1072	ALL	354448.1	3793418	NonCancerChronicDerived_Inh	3.48E-04
379	ALL	353923.1	3792793	NonCancerChronicDerived_Inh	3.48E-04
2035	ALL	353486.5	3793270	NonCancerChronicDerived_Inh	3.48E-04
570	ALL	354048.1	3792943	NonCancerChronicDerived_Inh	3.47E-04
766	ALL	354248.1	3793093	NonCancerChronicDerived_Inh	3.47E-04
2382	ALL	353396.5	3793495	NonCancerChronicDerived_Inh	3.47E-04
1855	ALL	353515.5	3793160	NonCancerChronicDerived_Inh	3.46E-04
2208	ALL	353456.5	3793375	NonCancerChronicDerived_Inh	3.46E-04
2301	ALL	353426.5	3793435	NonCancerChronicDerived_Inh	3.46E-04
2438	ALL	353381.5	3793540	NonCancerChronicDerived_Inh	3.46E-04
1005	ALL	354423.1	3793318	NonCancerChronicDerived_Inh	3.45E-04
126	ALL	353798.1	3792593	NonCancerChronicDerived_Inh	3.45E-04
2109	ALL	353471.5	3793315	NonCancerChronicDerived_Inh	3.45E-04
2255	ALL	353441.5	3793405	NonCancerChronicDerived_Inh	3.44E-04
474	ALL	353973.1	3792868	NonCancerChronicDerived_Inh	3.44E-04
538	ALL	354023.1	3792918	NonCancerChronicDerived_Inh	3.44E-04
2363	ALL	353396.5	3793480	NonCancerChronicDerived_Inh	3.44E-04
799	ALL	354273.1	3793118	NonCancerChronicDerived_Inh	3.44E-04
2488	ALL	353366.5	3793585	NonCancerChronicDerived_Inh	3.43E-04
2022	ALL	353486.5	3793255	NonCancerChronicDerived_Inh	3.43E-04
966	ALL	354398.1	3793268	NonCancerChronicDerived_Inh	3.43E-04
506	ALL	353998.1	3792893	NonCancerChronicDerived_Inh	3.43E-04
1057	ALL	354448.1	3793393	NonCancerChronicDerived_Inh	3.43E-04
1391	ALL	353615.5	3792760	NonCancerChronicDerived_Inh	3.43E-04
865	ALL	354323.1	3793168	NonCancerChronicDerived_Inh	3.42E-04
733	ALL	354223.1	3793068	NonCancerChronicDerived_Inh	3.42E-04
832	ALL	354298.1	3793143	NonCancerChronicDerived_Inh	3.42E-04
2183	ALL	353456.5	3793360	NonCancerChronicDerived_Inh	3.41E-04

2322	ALL	353411.5	3793450	NonCancerChronicDerived_Inh	3.41E-04
1707	ALL	353540.5	3793035	NonCancerChronicDerived_Inh	3.41E-04
1592	ALL	353565.5	3792935	NonCancerChronicDerived_Inh	3.41E-04
2419	ALL	353381.5	3793525	NonCancerChronicDerived_Inh	3.41E-04
2084	ALL	353471.5	3793300	NonCancerChronicDerived_Inh	3.40E-04
898	ALL	354348.1	3793193	NonCancerChronicDerived_Inh	3.40E-04
603	ALL	354098.1	3792968	NonCancerChronicDerived_Inh	3.40E-04
1477	ALL	353590.5	3792835	NonCancerChronicDerived_Inh	3.39E-04
2278	ALL	353426.5	3793420	NonCancerChronicDerived_Inh	3.38E-04
700	ALL	354198.1	3793043	NonCancerChronicDerived_Inh	3.38E-04
1825	ALL	353515.5	3793135	NonCancerChronicDerived_Inh	3.38E-04
2343	ALL	353396.5	3793465	NonCancerChronicDerived_Inh	3.38E-04
411	ALL	353948.1	3792818	NonCancerChronicDerived_Inh	3.37E-04
1041	ALL	354448.1	3793368	NonCancerChronicDerived_Inh	3.37E-04
2158	ALL	353456.5	3793345	NonCancerChronicDerived_Inh	3.37E-04
668	ALL	354173.1	3793018	NonCancerChronicDerived_Inh	3.37E-04
2472	ALL	353366.5	3793570	NonCancerChronicDerived_Inh	3.37E-04
2231	ALL	353441.5	3793390	NonCancerChronicDerived_Inh	3.37E-04
2400	ALL	353381.5	3793510	NonCancerChronicDerived_Inh	3.37E-04
348	ALL	353923.1	3792768	NonCancerChronicDerived_Inh	3.36E-04
2059	ALL	353471.5	3793285	NonCancerChronicDerived_Inh	3.36E-04
930	ALL	354373.1	3793218	NonCancerChronicDerived_Inh	3.36E-04
1914	ALL	353490.5	3793210	NonCancerChronicDerived_Inh	3.35E-04
571	ALL	354073.1	3792943	NonCancerChronicDerived_Inh	3.35E-04
285	ALL	353898.1	3792718	NonCancerChronicDerived_Inh	3.34E-04
1678	ALL	353540.5	3793010	NonCancerChronicDerived_Inh	3.33E-04
222	ALL	353873.1	3792668	NonCancerChronicDerived_Inh	3.33E-04
986	ALL	354423.1	3793293	NonCancerChronicDerived_Inh	3.33E-04
2455	ALL	353366.5	3793555	NonCancerChronicDerived_Inh	3.33E-04
2381	ALL	353381.5	3793495	NonCancerChronicDerived_Inh	3.33E-04
2133	ALL	353456.5	3793330	NonCancerChronicDerived_Inh	3.33E-04
1563	ALL	353565.5	3792910	NonCancerChronicDerived_Inh	3.32E-04
636	ALL	354148.1	3792993	NonCancerChronicDerived_Inh	3.32E-04
2034	ALL	353471.5	3793270	NonCancerChronicDerived_Inh	3.31E-04
539	ALL	354048.1	3792918	NonCancerChronicDerived_Inh	3.31E-04
2300	ALL	353411.5	3793435	NonCancerChronicDerived_Inh	3.31E-04
2254	ALL	353426.5	3793405	NonCancerChronicDerived_Inh	3.31E-04
2207	ALL	353441.5	3793375	NonCancerChronicDerived_Inh	3.30E-04
443	ALL	353973.1	3792843	NonCancerChronicDerived_Inh	3.30E-04
1025	ALL	354448.1	3793343	NonCancerChronicDerived_Inh	3.30E-04
2437	ALL	353366.5	3793540	NonCancerChronicDerived_Inh	3.30E-04
604	ALL	354123.1	3792968	NonCancerChronicDerived_Inh	3.29E-04
2362	ALL	353381.5	3793480	NonCancerChronicDerived_Inh	3.29E-04
507	ALL	354023.1	3792893	NonCancerChronicDerived_Inh	3.29E-04
2108	ALL	353456.5	3793315	NonCancerChronicDerived_Inh	3.29E-04
1795	ALL	353515.5	3793110	NonCancerChronicDerived_Inh	3.28E-04
475	ALL	353998.1	3792868	NonCancerChronicDerived_Inh	3.28E-04

1884	ALL	353490.5	3793185	NonCancerChronicDerived_Inh	3.28E-04
1305	ALL	353640.5	3792685	NonCancerChronicDerived_Inh	3.28E-04
947	ALL	354398.1	3793243	NonCancerChronicDerived_Inh	3.28E-04
2021	ALL	353471.5	3793255	NonCancerChronicDerived_Inh	3.27E-04
767	ALL	354273.1	3793093	NonCancerChronicDerived_Inh	3.27E-04
2321	ALL	353396.5	3793450	NonCancerChronicDerived_Inh	3.27E-04
1448	ALL	353590.5	3792810	NonCancerChronicDerived_Inh	3.27E-04
2418	ALL	353366.5	3793525	NonCancerChronicDerived_Inh	3.26E-04
2182	ALL	353441.5	3793360	NonCancerChronicDerived_Inh	3.26E-04
1649	ALL	353540.5	3792985	NonCancerChronicDerived_Inh	3.25E-04
2083	ALL	353456.5	3793300	NonCancerChronicDerived_Inh	3.25E-04
1362	ALL	353615.5	3792735	NonCancerChronicDerived_Inh	3.24E-04
2277	ALL	353411.5	3793420	NonCancerChronicDerived_Inh	3.24E-04
2342	ALL	353381.5	3793465	NonCancerChronicDerived_Inh	3.24E-04
734	ALL	354248.1	3793068	NonCancerChronicDerived_Inh	3.24E-04
1765	ALL	353515.5	3793085	NonCancerChronicDerived_Inh	3.24E-04
833	ALL	354323.1	3793143	NonCancerChronicDerived_Inh	3.23E-04
380	ALL	353948.1	3792793	NonCancerChronicDerived_Inh	3.23E-04
1534	ALL	353565.5	3792885	NonCancerChronicDerived_Inh	3.23E-04
800	ALL	354298.1	3793118	NonCancerChronicDerived_Inh	3.23E-04
572	ALL	354098.1	3792943	NonCancerChronicDerived_Inh	3.23E-04
2399	ALL	353366.5	3793510	NonCancerChronicDerived_Inh	3.23E-04
866	ALL	354348.1	3793168	NonCancerChronicDerived_Inh	3.22E-04
2230	ALL	353426.5	3793390	NonCancerChronicDerived_Inh	3.22E-04
2157	ALL	353441.5	3793345	NonCancerChronicDerived_Inh	3.21E-04
701	ALL	354223.1	3793043	NonCancerChronicDerived_Inh	3.21E-04
669	ALL	354198.1	3793018	NonCancerChronicDerived_Inh	3.21E-04
2058	ALL	353456.5	3793285	NonCancerChronicDerived_Inh	3.21E-04
1006	ALL	354448.1	3793318	NonCancerChronicDerived_Inh	3.21E-04
1854	ALL	353490.5	3793160	NonCancerChronicDerived_Inh	3.21E-04
1735	ALL	353515.5	3793060	NonCancerChronicDerived_Inh	3.20E-04
637	ALL	354173.1	3792993	NonCancerChronicDerived_Inh	3.20E-04
2380	ALL	353366.5	3793495	NonCancerChronicDerived_Inh	3.20E-04
967	ALL	354423.1	3793268	NonCancerChronicDerived_Inh	3.19E-04
540	ALL	354073.1	3792918	NonCancerChronicDerived_Inh	3.19E-04
899	ALL	354373.1	3793193	NonCancerChronicDerived_Inh	3.19E-04
317	ALL	353923.1	3792743	NonCancerChronicDerived_Inh	3.19E-04
1220	ALL	353690.5	3792610	NonCancerChronicDerived_Inh	3.18E-04
2132	ALL	353441.5	3793330	NonCancerChronicDerived_Inh	3.17E-04
254	ALL	353898.1	3792693	NonCancerChronicDerived_Inh	3.17E-04
2299	ALL	353396.5	3793435	NonCancerChronicDerived_Inh	3.17E-04
508	ALL	354048.1	3792893	NonCancerChronicDerived_Inh	3.17E-04
2253	ALL	353411.5	3793405	NonCancerChronicDerived_Inh	3.17E-04
2033	ALL	353456.5	3793270	NonCancerChronicDerived_Inh	3.17E-04
412	ALL	353973.1	3792818	NonCancerChronicDerived_Inh	3.17E-04
1620	ALL	353540.5	3792960	NonCancerChronicDerived_Inh	3.17E-04
2206	ALL	353426.5	3793375	NonCancerChronicDerived_Inh	3.16E-04

2361	ALL	353366.5	3793480	NonCancerChronicDerived_Inh	3.16E-04
2320	ALL	353381.5	3793450	NonCancerChronicDerived_Inh	3.15E-04
476	ALL	354023.1	3792868	NonCancerChronicDerived_Inh	3.14E-04
1073	ALL	354473.1	3793418	NonCancerChronicDerived_Inh	3.14E-04
605	ALL	354148.1	3792968	NonCancerChronicDerived_Inh	3.14E-04
444	ALL	353998.1	3792843	NonCancerChronicDerived_Inh	3.14E-04
2107	ALL	353441.5	3793315	NonCancerChronicDerived_Inh	3.14E-04
1419	ALL	353590.5	3792785	NonCancerChronicDerived_Inh	3.14E-04
1824	ALL	353490.5	3793135	NonCancerChronicDerived_Inh	3.14E-04
1706	ALL	353515.5	3793035	NonCancerChronicDerived_Inh	3.13E-04
1505	ALL	353565.5	3792860	NonCancerChronicDerived_Inh	3.13E-04
931	ALL	354398.1	3793218	NonCancerChronicDerived_Inh	3.13E-04
2020	ALL	353456.5	3793255	NonCancerChronicDerived_Inh	3.13E-04
573	ALL	354123.1	3792943	NonCancerChronicDerived_Inh	3.12E-04
2181	ALL	353426.5	3793360	NonCancerChronicDerived_Inh	3.12E-04
159	ALL	353848.1	3792618	NonCancerChronicDerived_Inh	3.12E-04
2341	ALL	353366.5	3793465	NonCancerChronicDerived_Inh	3.11E-04
349	ALL	353948.1	3792768	NonCancerChronicDerived_Inh	3.11E-04
1248	ALL	353665.5	3792635	NonCancerChronicDerived_Inh	3.11E-04
1058	ALL	354473.1	3793393	NonCancerChronicDerived_Inh	3.11E-04
2276	ALL	353396.5	3793420	NonCancerChronicDerived_Inh	3.11E-04
2082	ALL	353441.5	3793300	NonCancerChronicDerived_Inh	3.10E-04
987	ALL	354448.1	3793293	NonCancerChronicDerived_Inh	3.10E-04
1913	ALL	353465.5	3793210	NonCancerChronicDerived_Inh	3.10E-04
2156	ALL	353426.5	3793345	NonCancerChronicDerived_Inh	3.08E-04
2229	ALL	353411.5	3793390	NonCancerChronicDerived_Inh	3.08E-04
1591	ALL	353540.5	3792935	NonCancerChronicDerived_Inh	3.08E-04
1192	ALL	353715.5	3792585	NonCancerChronicDerived_Inh	3.08E-04
541	ALL	354098.1	3792918	NonCancerChronicDerived_Inh	3.08E-04
2057	ALL	353441.5	3793285	NonCancerChronicDerived_Inh	3.07E-04
1042	ALL	354473.1	3793368	NonCancerChronicDerived_Inh	3.07E-04
735	ALL	354273.1	3793068	NonCancerChronicDerived_Inh	3.07E-04
948	ALL	354423.1	3793243	NonCancerChronicDerived_Inh	3.07E-04
191	ALL	353873.1	3792643	NonCancerChronicDerived_Inh	3.06E-04
768	ALL	354298.1	3793093	NonCancerChronicDerived_Inh	3.06E-04
127	ALL	353823.1	3792593	NonCancerChronicDerived_Inh	3.06E-04
801	ALL	354323.1	3793118	NonCancerChronicDerived_Inh	3.06E-04
2298	ALL	353381.5	3793435	NonCancerChronicDerived_Inh	3.06E-04
834	ALL	354348.1	3793143	NonCancerChronicDerived_Inh	3.06E-04
670	ALL	354223.1	3793018	NonCancerChronicDerived_Inh	3.06E-04
1677	ALL	353515.5	3793010	NonCancerChronicDerived_Inh	3.06E-04
638	ALL	354198.1	3792993	NonCancerChronicDerived_Inh	3.05E-04
509	ALL	354073.1	3792893	NonCancerChronicDerived_Inh	3.05E-04
702	ALL	354248.1	3793043	NonCancerChronicDerived_Inh	3.05E-04
2319	ALL	353366.5	3793450	NonCancerChronicDerived_Inh	3.05E-04
1794	ALL	353490.5	3793110	NonCancerChronicDerived_Inh	3.05E-04
2131	ALL	353426.5	3793330	NonCancerChronicDerived_Inh	3.04E-04

381	ALL	353973.1	3792793	NonCancerChronicDerived_Inh	3.04E-04
286	ALL	353923.1	3792718	NonCancerChronicDerived_Inh	3.04E-04
1333	ALL	353615.5	3792710	NonCancerChronicDerived_Inh	3.04E-04
2252	ALL	353396.5	3793405	NonCancerChronicDerived_Inh	3.03E-04
94	ALL	353773.1	3792568	NonCancerChronicDerived_Inh	3.03E-04
867	ALL	354373.1	3793168	NonCancerChronicDerived_Inh	3.03E-04
2032	ALL	353441.5	3793270	NonCancerChronicDerived_Inh	3.03E-04
1883	ALL	353465.5	3793185	NonCancerChronicDerived_Inh	3.03E-04
477	ALL	354048.1	3792868	NonCancerChronicDerived_Inh	3.02E-04
1476	ALL	353565.5	3792835	NonCancerChronicDerived_Inh	3.02E-04
2205	ALL	353411.5	3793375	NonCancerChronicDerived_Inh	3.02E-04
1026	ALL	354473.1	3793343	NonCancerChronicDerived_Inh	3.02E-04
2106	ALL	353426.5	3793315	NonCancerChronicDerived_Inh	3.01E-04
413	ALL	353998.1	3792818	NonCancerChronicDerived_Inh	3.01E-04
445	ALL	354023.1	3792843	NonCancerChronicDerived_Inh	3.00E-04
606	ALL	354173.1	3792968	NonCancerChronicDerived_Inh	3.00E-04
1562	ALL	353540.5	3792910	NonCancerChronicDerived_Inh	3.00E-04
2275	ALL	353381.5	3793420	NonCancerChronicDerived_Inh	3.00E-04
2180	ALL	353411.5	3793360	NonCancerChronicDerived_Inh	2.99E-04
2019	ALL	353441.5	3793255	NonCancerChronicDerived_Inh	2.99E-04
1390	ALL	353590.5	3792760	NonCancerChronicDerived_Inh	2.99E-04
968	ALL	354448.1	3793268	NonCancerChronicDerived_Inh	2.99E-04
2297	ALL	353366.5	3793435	NonCancerChronicDerived_Inh	2.98E-04
900	ALL	354398.1	3793193	NonCancerChronicDerived_Inh	2.98E-04
223	ALL	353898.1	3792668	NonCancerChronicDerived_Inh	2.98E-04
2081	ALL	353426.5	3793300	NonCancerChronicDerived_Inh	2.98E-04
574	ALL	354148.1	3792943	NonCancerChronicDerived_Inh	2.98E-04
1276	ALL	353640.5	3792660	NonCancerChronicDerived_Inh	2.98E-04
1648	ALL	353515.5	3792985	NonCancerChronicDerived_Inh	2.97E-04
1853	ALL	353465.5	3793160	NonCancerChronicDerived_Inh	2.97E-04
1764	ALL	353490.5	3793085	NonCancerChronicDerived_Inh	2.97E-04
2155	ALL	353411.5	3793345	NonCancerChronicDerived_Inh	2.96E-04
542	ALL	354123.1	3792918	NonCancerChronicDerived_Inh	2.96E-04
2228	ALL	353396.5	3793390	NonCancerChronicDerived_Inh	2.95E-04
1007	ALL	354473.1	3793318	NonCancerChronicDerived_Inh	2.95E-04
318	ALL	353948.1	3792743	NonCancerChronicDerived_Inh	2.95E-04
2056	ALL	353426.5	3793285	NonCancerChronicDerived_Inh	2.94E-04
932	ALL	354423.1	3793218	NonCancerChronicDerived_Inh	2.94E-04
510	ALL	354098.1	3792893	NonCancerChronicDerived_Inh	2.94E-04
2130	ALL	353411.5	3793330	NonCancerChronicDerived_Inh	2.93E-04
2251	ALL	353381.5	3793405	NonCancerChronicDerived_Inh	2.93E-04
350	ALL	353973.1	3792768	NonCancerChronicDerived_Inh	2.92E-04
2274	ALL	353366.5	3793420	NonCancerChronicDerived_Inh	2.92E-04
639	ALL	354223.1	3792993	NonCancerChronicDerived_Inh	2.92E-04
1533	ALL	353540.5	3792885	NonCancerChronicDerived_Inh	2.91E-04
1734	ALL	353490.5	3793060	NonCancerChronicDerived_Inh	2.91E-04
769	ALL	354323.1	3793093	NonCancerChronicDerived_Inh	2.91E-04

671	ALL	354248.1	3793018	NonCancerChronicDerived_Inh	2.91E-04
1447	ALL	353565.5	3792810	NonCancerChronicDerived_Inh	2.91E-04
1074	ALL	354498.1	3793418	NonCancerChronicDerived_Inh	2.91E-04
478	ALL	354073.1	3792868	NonCancerChronicDerived_Inh	2.91E-04
2031	ALL	353426.5	3793270	NonCancerChronicDerived_Inh	2.91E-04
802	ALL	354348.1	3793118	NonCancerChronicDerived_Inh	2.91E-04
736	ALL	354298.1	3793068	NonCancerChronicDerived_Inh	2.90E-04
703	ALL	354273.1	3793043	NonCancerChronicDerived_Inh	2.90E-04
1823	ALL	353465.5	3793135	NonCancerChronicDerived_Inh	2.90E-04
2204	ALL	353396.5	3793375	NonCancerChronicDerived_Inh	2.90E-04
2105	ALL	353411.5	3793315	NonCancerChronicDerived_Inh	2.90E-04
1619	ALL	353515.5	3792960	NonCancerChronicDerived_Inh	2.89E-04
382	ALL	353998.1	3792793	NonCancerChronicDerived_Inh	2.89E-04
255	ALL	353923.1	3792693	NonCancerChronicDerived_Inh	2.89E-04
1705	ALL	353490.5	3793035	NonCancerChronicDerived_Inh	2.89E-04
835	ALL	354373.1	3793143	NonCancerChronicDerived_Inh	2.89E-04
1912	ALL	353440.5	3793210	NonCancerChronicDerived_Inh	2.88E-04
446	ALL	354048.1	3792843	NonCancerChronicDerived_Inh	2.88E-04
949	ALL	354448.1	3793243	NonCancerChronicDerived_Inh	2.88E-04
2018	ALL	353426.5	3793255	NonCancerChronicDerived_Inh	2.87E-04
414	ALL	354023.1	3792818	NonCancerChronicDerived_Inh	2.87E-04
2179	ALL	353396.5	3793360	NonCancerChronicDerived_Inh	2.87E-04
988	ALL	354473.1	3793293	NonCancerChronicDerived_Inh	2.87E-04
607	ALL	354198.1	3792968	NonCancerChronicDerived_Inh	2.86E-04
1059	ALL	354498.1	3793393	NonCancerChronicDerived_Inh	2.86E-04
95	ALL	353798.1	3792568	NonCancerChronicDerived_Inh	2.86E-04
2080	ALL	353411.5	3793300	NonCancerChronicDerived_Inh	2.86E-04
575	ALL	354173.1	3792943	NonCancerChronicDerived_Inh	2.85E-04
1793	ALL	353465.5	3793110	NonCancerChronicDerived_Inh	2.85E-04
2250	ALL	353366.5	3793405	NonCancerChronicDerived_Inh	2.85E-04
2154	ALL	353396.5	3793345	NonCancerChronicDerived_Inh	2.84E-04
2227	ALL	353381.5	3793390	NonCancerChronicDerived_Inh	2.84E-04
868	ALL	354398.1	3793168	NonCancerChronicDerived_Inh	2.84E-04
1361	ALL	353590.5	3792735	NonCancerChronicDerived_Inh	2.83E-04
543	ALL	354148.1	3792918	NonCancerChronicDerived_Inh	2.83E-04
2055	ALL	353411.5	3793285	NonCancerChronicDerived_Inh	2.83E-04
1504	ALL	353540.5	3792860	NonCancerChronicDerived_Inh	2.83E-04
1882	ALL	353440.5	3793185	NonCancerChronicDerived_Inh	2.82E-04
1676	ALL	353490.5	3793010	NonCancerChronicDerived_Inh	2.82E-04
1043	ALL	354498.1	3793368	NonCancerChronicDerived_Inh	2.82E-04
511	ALL	354123.1	3792893	NonCancerChronicDerived_Inh	2.82E-04
1304	ALL	353615.5	3792685	NonCancerChronicDerived_Inh	2.82E-04
901	ALL	354423.1	3793193	NonCancerChronicDerived_Inh	2.82E-04
287	ALL	353948.1	3792718	NonCancerChronicDerived_Inh	2.81E-04
1590	ALL	353515.5	3792935	NonCancerChronicDerived_Inh	2.81E-04
2129	ALL	353396.5	3793330	NonCancerChronicDerived_Inh	2.81E-04
479	ALL	354098.1	3792868	NonCancerChronicDerived_Inh	2.80E-04

2030	ALL	353411.5	3793270	NonCancerChronicDerived_Inh	2.80E-04
160	ALL	353873.1	3792618	NonCancerChronicDerived_Inh	2.80E-04
1418	ALL	353565.5	3792785	NonCancerChronicDerived_Inh	2.79E-04
2203	ALL	353381.5	3793375	NonCancerChronicDerived_Inh	2.79E-04
640	ALL	354248.1	3792993	NonCancerChronicDerived_Inh	2.78E-04
2104	ALL	353396.5	3793315	NonCancerChronicDerived_Inh	2.78E-04
969	ALL	354473.1	3793268	NonCancerChronicDerived_Inh	2.78E-04
1027	ALL	354498.1	3793343	NonCancerChronicDerived_Inh	2.77E-04
672	ALL	354273.1	3793018	NonCancerChronicDerived_Inh	2.77E-04
447	ALL	354073.1	3792843	NonCancerChronicDerived_Inh	2.77E-04
770	ALL	354348.1	3793093	NonCancerChronicDerived_Inh	2.77E-04
192	ALL	353898.1	3792643	NonCancerChronicDerived_Inh	2.77E-04
319	ALL	353973.1	3792743	NonCancerChronicDerived_Inh	2.77E-04
737	ALL	354323.1	3793068	NonCancerChronicDerived_Inh	2.77E-04
2226	ALL	353366.5	3793390	NonCancerChronicDerived_Inh	2.77E-04
128	ALL	353848.1	3792593	NonCancerChronicDerived_Inh	2.77E-04
351	ALL	353998.1	3792768	NonCancerChronicDerived_Inh	2.77E-04
2017	ALL	353411.5	3793255	NonCancerChronicDerived_Inh	2.76E-04
1852	ALL	353440.5	3793160	NonCancerChronicDerived_Inh	2.76E-04
704	ALL	354298.1	3793043	NonCancerChronicDerived_Inh	2.76E-04
383	ALL	354023.1	3792793	NonCancerChronicDerived_Inh	2.76E-04
1763	ALL	353465.5	3793085	NonCancerChronicDerived_Inh	2.76E-04
415	ALL	354048.1	3792818	NonCancerChronicDerived_Inh	2.76E-04
2178	ALL	353381.5	3793360	NonCancerChronicDerived_Inh	2.75E-04
933	ALL	354448.1	3793218	NonCancerChronicDerived_Inh	2.75E-04
1075	ALL	354523.1	3793418	NonCancerChronicDerived_Inh	2.75E-04
803	ALL	354373.1	3793118	NonCancerChronicDerived_Inh	2.75E-04
2079	ALL	353396.5	3793300	NonCancerChronicDerived_Inh	2.75E-04
608	ALL	354223.1	3792968	NonCancerChronicDerived_Inh	2.74E-04
1647	ALL	353490.5	3792985	NonCancerChronicDerived_Inh	2.73E-04
544	ALL	354173.1	3792918	NonCancerChronicDerived_Inh	2.73E-04
1561	ALL	353515.5	3792910	NonCancerChronicDerived_Inh	2.73E-04
576	ALL	354198.1	3792943	NonCancerChronicDerived_Inh	2.73E-04
1475	ALL	353540.5	3792835	NonCancerChronicDerived_Inh	2.73E-04
224	ALL	353923.1	3792668	NonCancerChronicDerived_Inh	2.73E-04
2153	ALL	353381.5	3793345	NonCancerChronicDerived_Inh	2.73E-04
1219	ALL	353665.5	3792610	NonCancerChronicDerived_Inh	2.72E-04
1008	ALL	354498.1	3793318	NonCancerChronicDerived_Inh	2.72E-04
2054	ALL	353396.5	3793285	NonCancerChronicDerived_Inh	2.71E-04
836	ALL	354398.1	3793143	NonCancerChronicDerived_Inh	2.71E-04
512	ALL	354148.1	3792893	NonCancerChronicDerived_Inh	2.70E-04
1191	ALL	353690.5	3792585	NonCancerChronicDerived_Inh	2.70E-04
1822	ALL	353440.5	3793135	NonCancerChronicDerived_Inh	2.70E-04
2128	ALL	353381.5	3793330	NonCancerChronicDerived_Inh	2.69E-04
480	ALL	354123.1	3792868	NonCancerChronicDerived_Inh	2.69E-04
869	ALL	354423.1	3793168	NonCancerChronicDerived_Inh	2.69E-04
2202	ALL	353366.5	3793375	NonCancerChronicDerived_Inh	2.69E-04

2029	ALL	353396.5	3793270	NonCancerChronicDerived_Inh	2.68E-04
1911	ALL	353415.5	3793210	NonCancerChronicDerived_Inh	2.68E-04
1733	ALL	353465.5	3793060	NonCancerChronicDerived_Inh	2.68E-04
950	ALL	354473.1	3793243	NonCancerChronicDerived_Inh	2.68E-04
256	ALL	353948.1	3792693	NonCancerChronicDerived_Inh	2.68E-04
1247	ALL	353640.5	3792635	NonCancerChronicDerived_Inh	2.68E-04
1060	ALL	354523.1	3793393	NonCancerChronicDerived_Inh	2.67E-04
448	ALL	354098.1	3792843	NonCancerChronicDerived_Inh	2.67E-04
2103	ALL	353381.5	3793315	NonCancerChronicDerived_Inh	2.66E-04
1332	ALL	353590.5	3792710	NonCancerChronicDerived_Inh	2.66E-04
1389	ALL	353565.5	3792760	NonCancerChronicDerived_Inh	2.66E-04
1792	ALL	353440.5	3793110	NonCancerChronicDerived_Inh	2.66E-04
989	ALL	354498.1	3793293	NonCancerChronicDerived_Inh	2.66E-04
641	ALL	354273.1	3792993	NonCancerChronicDerived_Inh	2.66E-04
1618	ALL	353490.5	3792960	NonCancerChronicDerived_Inh	2.66E-04
2016	ALL	353396.5	3793255	NonCancerChronicDerived_Inh	2.65E-04
1532	ALL	353515.5	3792885	NonCancerChronicDerived_Inh	2.65E-04
96	ALL	353823.1	3792568	NonCancerChronicDerived_Inh	2.65E-04
416	ALL	354073.1	3792818	NonCancerChronicDerived_Inh	2.65E-04
2177	ALL	353366.5	3793360	NonCancerChronicDerived_Inh	2.65E-04
1704	ALL	353465.5	3793035	NonCancerChronicDerived_Inh	2.65E-04
384	ALL	354048.1	3792793	NonCancerChronicDerived_Inh	2.64E-04
288	ALL	353973.1	3792718	NonCancerChronicDerived_Inh	2.64E-04
673	ALL	354298.1	3793018	NonCancerChronicDerived_Inh	2.64E-04
738	ALL	354348.1	3793068	NonCancerChronicDerived_Inh	2.64E-04
902	ALL	354448.1	3793193	NonCancerChronicDerived_Inh	2.64E-04
2078	ALL	353381.5	3793300	NonCancerChronicDerived_Inh	2.63E-04
1881	ALL	353415.5	3793185	NonCancerChronicDerived_Inh	2.63E-04
705	ALL	354323.1	3793043	NonCancerChronicDerived_Inh	2.63E-04
1044	ALL	354523.1	3793368	NonCancerChronicDerived_Inh	2.63E-04
352	ALL	354023.1	3792768	NonCancerChronicDerived_Inh	2.63E-04
1446	ALL	353540.5	3792810	NonCancerChronicDerived_Inh	2.63E-04
320	ALL	353998.1	3792743	NonCancerChronicDerived_Inh	2.62E-04
609	ALL	354248.1	3792968	NonCancerChronicDerived_Inh	2.62E-04
771	ALL	354373.1	3793093	NonCancerChronicDerived_Inh	2.62E-04
513	ALL	354173.1	3792893	NonCancerChronicDerived_Inh	2.62E-04
545	ALL	354198.1	3792918	NonCancerChronicDerived_Inh	2.62E-04
577	ALL	354223.1	3792943	NonCancerChronicDerived_Inh	2.61E-04
2152	ALL	353366.5	3793345	NonCancerChronicDerived_Inh	2.61E-04
1076	ALL	354548.1	3793418	NonCancerChronicDerived_Inh	2.61E-04
2053	ALL	353381.5	3793285	NonCancerChronicDerived_Inh	2.61E-04
1675	ALL	353465.5	3793010	NonCancerChronicDerived_Inh	2.60E-04
1762	ALL	353440.5	3793085	NonCancerChronicDerived_Inh	2.60E-04
1028	ALL	354523.1	3793343	NonCancerChronicDerived_Inh	2.59E-04
1275	ALL	353615.5	3792660	NonCancerChronicDerived_Inh	2.59E-04
970	ALL	354498.1	3793268	NonCancerChronicDerived_Inh	2.59E-04
804	ALL	354398.1	3793118	NonCancerChronicDerived_Inh	2.59E-04

1589	ALL	353490.5	3792935	NonCancerChronicDerived_Inh	2.58E-04
481	ALL	354148.1	3792868	NonCancerChronicDerived_Inh	2.58E-04
2127	ALL	353366.5	3793330	NonCancerChronicDerived_Inh	2.58E-04
1163	ALL	353715.5	3792560	NonCancerChronicDerived_Inh	2.58E-04
1851	ALL	353415.5	3793160	NonCancerChronicDerived_Inh	2.58E-04
2028	ALL	353381.5	3793270	NonCancerChronicDerived_Inh	2.58E-04
837	ALL	354423.1	3793143	NonCancerChronicDerived_Inh	2.57E-04
934	ALL	354473.1	3793218	NonCancerChronicDerived_Inh	2.57E-04
449	ALL	354123.1	3792843	NonCancerChronicDerived_Inh	2.57E-04
1503	ALL	353515.5	3792860	NonCancerChronicDerived_Inh	2.57E-04
161	ALL	353898.1	3792618	NonCancerChronicDerived_Inh	2.56E-04
193	ALL	353923.1	3792643	NonCancerChronicDerived_Inh	2.55E-04
417	ALL	354098.1	3792818	NonCancerChronicDerived_Inh	2.55E-04
2102	ALL	353366.5	3793315	NonCancerChronicDerived_Inh	2.55E-04
1009	ALL	354523.1	3793318	NonCancerChronicDerived_Inh	2.55E-04
2015	ALL	353381.5	3793255	NonCancerChronicDerived_Inh	2.55E-04
63	ALL	353773.1	3792543	NonCancerChronicDerived_Inh	2.54E-04
129	ALL	353873.1	3792593	NonCancerChronicDerived_Inh	2.54E-04
225	ALL	353948.1	3792668	NonCancerChronicDerived_Inh	2.54E-04
642	ALL	354298.1	3792993	NonCancerChronicDerived_Inh	2.54E-04
385	ALL	354073.1	3792793	NonCancerChronicDerived_Inh	2.53E-04
1061	ALL	354548.1	3793393	NonCancerChronicDerived_Inh	2.53E-04
870	ALL	354448.1	3793168	NonCancerChronicDerived_Inh	2.53E-04
1360	ALL	353565.5	3792735	NonCancerChronicDerived_Inh	2.53E-04
1646	ALL	353465.5	3792985	NonCancerChronicDerived_Inh	2.53E-04
257	ALL	353973.1	3792693	NonCancerChronicDerived_Inh	2.53E-04
2077	ALL	353366.5	3793300	NonCancerChronicDerived_Inh	2.52E-04
1417	ALL	353540.5	3792785	NonCancerChronicDerived_Inh	2.52E-04
674	ALL	354323.1	3793018	NonCancerChronicDerived_Inh	2.52E-04
1821	ALL	353415.5	3793135	NonCancerChronicDerived_Inh	2.52E-04
353	ALL	354048.1	3792768	NonCancerChronicDerived_Inh	2.52E-04
514	ALL	354198.1	3792893	NonCancerChronicDerived_Inh	2.51E-04
706	ALL	354348.1	3793043	NonCancerChronicDerived_Inh	2.51E-04
1560	ALL	353490.5	3792910	NonCancerChronicDerived_Inh	2.51E-04
1732	ALL	353440.5	3793060	NonCancerChronicDerived_Inh	2.51E-04
546	ALL	354223.1	3792918	NonCancerChronicDerived_Inh	2.51E-04
1910	ALL	353390.5	3793210	NonCancerChronicDerived_Inh	2.51E-04
482	ALL	354173.1	3792868	NonCancerChronicDerived_Inh	2.50E-04
289	ALL	353998.1	3792718	NonCancerChronicDerived_Inh	2.50E-04
610	ALL	354273.1	3792968	NonCancerChronicDerived_Inh	2.50E-04
951	ALL	354498.1	3793243	NonCancerChronicDerived_Inh	2.50E-04
321	ALL	354023.1	3792743	NonCancerChronicDerived_Inh	2.50E-04
578	ALL	354248.1	3792943	NonCancerChronicDerived_Inh	2.50E-04
739	ALL	354373.1	3793068	NonCancerChronicDerived_Inh	2.49E-04
990	ALL	354523.1	3793293	NonCancerChronicDerived_Inh	2.49E-04
1045	ALL	354548.1	3793368	NonCancerChronicDerived_Inh	2.49E-04
2052	ALL	353366.5	3793285	NonCancerChronicDerived_Inh	2.49E-04

1303	ALL	353590.5	3792685	NonCancerChronicDerived_Inh	2.49E-04
1474	ALL	353515.5	3792835	NonCancerChronicDerived_Inh	2.48E-04
1791	ALL	353415.5	3793110	NonCancerChronicDerived_Inh	2.48E-04
903	ALL	354473.1	3793193	NonCancerChronicDerived_Inh	2.47E-04
772	ALL	354398.1	3793093	NonCancerChronicDerived_Inh	2.47E-04
64	ALL	353798.1	3792543	NonCancerChronicDerived_Inh	2.47E-04
450	ALL	354148.1	3792843	NonCancerChronicDerived_Inh	2.47E-04
805	ALL	354423.1	3793118	NonCancerChronicDerived_Inh	2.47E-04
2027	ALL	353366.5	3793270	NonCancerChronicDerived_Inh	2.46E-04
418	ALL	354123.1	3792818	NonCancerChronicDerived_Inh	2.46E-04
1880	ALL	353390.5	3793185	NonCancerChronicDerived_Inh	2.46E-04
1617	ALL	353465.5	3792960	NonCancerChronicDerived_Inh	2.46E-04
97	ALL	353848.1	3792568	NonCancerChronicDerived_Inh	2.46E-04
1029	ALL	354548.1	3793343	NonCancerChronicDerived_Inh	2.45E-04
386	ALL	354098.1	3792793	NonCancerChronicDerived_Inh	2.44E-04
1761	ALL	353415.5	3793085	NonCancerChronicDerived_Inh	2.44E-04
2014	ALL	353366.5	3793255	NonCancerChronicDerived_Inh	2.44E-04
1703	ALL	353440.5	3793035	NonCancerChronicDerived_Inh	2.44E-04
1531	ALL	353490.5	3792885	NonCancerChronicDerived_Inh	2.43E-04
838	ALL	354448.1	3793143	NonCancerChronicDerived_Inh	2.43E-04
971	ALL	354523.1	3793268	NonCancerChronicDerived_Inh	2.43E-04
643	ALL	354323.1	3792993	NonCancerChronicDerived_Inh	2.42E-04
935	ALL	354498.1	3793218	NonCancerChronicDerived_Inh	2.42E-04
354	ALL	354073.1	3792768	NonCancerChronicDerived_Inh	2.41E-04
1850	ALL	353390.5	3793160	NonCancerChronicDerived_Inh	2.41E-04
515	ALL	354223.1	3792893	NonCancerChronicDerived_Inh	2.41E-04
1388	ALL	353540.5	3792760	NonCancerChronicDerived_Inh	2.41E-04
1218	ALL	353640.5	3792610	NonCancerChronicDerived_Inh	2.41E-04
483	ALL	354198.1	3792868	NonCancerChronicDerived_Inh	2.40E-04
1674	ALL	353440.5	3793010	NonCancerChronicDerived_Inh	2.40E-04
547	ALL	354248.1	3792918	NonCancerChronicDerived_Inh	2.40E-04
1190	ALL	353665.5	3792585	NonCancerChronicDerived_Inh	2.40E-04
1010	ALL	354548.1	3793318	NonCancerChronicDerived_Inh	2.40E-04
675	ALL	354348.1	3793018	NonCancerChronicDerived_Inh	2.40E-04
322	ALL	354048.1	3792743	NonCancerChronicDerived_Inh	2.40E-04
258	ALL	353998.1	3792693	NonCancerChronicDerived_Inh	2.40E-04
226	ALL	353973.1	3792668	NonCancerChronicDerived_Inh	2.39E-04
611	ALL	354298.1	3792968	NonCancerChronicDerived_Inh	2.39E-04
1445	ALL	353515.5	3792810	NonCancerChronicDerived_Inh	2.39E-04
579	ALL	354273.1	3792943	NonCancerChronicDerived_Inh	2.39E-04
1588	ALL	353465.5	3792935	NonCancerChronicDerived_Inh	2.39E-04
194	ALL	353948.1	3792643	NonCancerChronicDerived_Inh	2.39E-04
290	ALL	354023.1	3792718	NonCancerChronicDerived_Inh	2.39E-04
1331	ALL	353565.5	3792710	NonCancerChronicDerived_Inh	2.39E-04
162	ALL	353923.1	3792618	NonCancerChronicDerived_Inh	2.38E-04
871	ALL	354473.1	3793168	NonCancerChronicDerived_Inh	2.38E-04
707	ALL	354373.1	3793043	NonCancerChronicDerived_Inh	2.38E-04

451	ALL	354173.1	3792843	NonCancerChronicDerived_Inh	2.38E-04
1246	ALL	353615.5	3792635	NonCancerChronicDerived_Inh	2.37E-04
1731	ALL	353415.5	3793060	NonCancerChronicDerived_Inh	2.37E-04
419	ALL	354148.1	3792818	NonCancerChronicDerived_Inh	2.37E-04
387	ALL	354123.1	3792793	NonCancerChronicDerived_Inh	2.36E-04
773	ALL	354423.1	3793093	NonCancerChronicDerived_Inh	2.36E-04
740	ALL	354398.1	3793068	NonCancerChronicDerived_Inh	2.36E-04
130	ALL	353898.1	3792593	NonCancerChronicDerived_Inh	2.36E-04
1502	ALL	353490.5	3792860	NonCancerChronicDerived_Inh	2.36E-04
952	ALL	354523.1	3793243	NonCancerChronicDerived_Inh	2.36E-04
1820	ALL	353390.5	3793135	NonCancerChronicDerived_Inh	2.35E-04
1162	ALL	353690.5	3792560	NonCancerChronicDerived_Inh	2.35E-04
65	ALL	353823.1	3792543	NonCancerChronicDerived_Inh	2.35E-04
1645	ALL	353440.5	3792985	NonCancerChronicDerived_Inh	2.35E-04
991	ALL	354548.1	3793293	NonCancerChronicDerived_Inh	2.34E-04
1909	ALL	353365.5	3793210	NonCancerChronicDerived_Inh	2.34E-04
904	ALL	354498.1	3793193	NonCancerChronicDerived_Inh	2.34E-04
355	ALL	354098.1	3792768	NonCancerChronicDerived_Inh	2.33E-04
806	ALL	354448.1	3793118	NonCancerChronicDerived_Inh	2.33E-04
1790	ALL	353390.5	3793110	NonCancerChronicDerived_Inh	2.32E-04
1559	ALL	353465.5	3792910	NonCancerChronicDerived_Inh	2.32E-04
516	ALL	354248.1	3792893	NonCancerChronicDerived_Inh	2.31E-04
1274	ALL	353590.5	3792660	NonCancerChronicDerived_Inh	2.31E-04
644	ALL	354348.1	3792993	NonCancerChronicDerived_Inh	2.31E-04
484	ALL	354223.1	3792868	NonCancerChronicDerived_Inh	2.31E-04
323	ALL	354073.1	3792743	NonCancerChronicDerived_Inh	2.31E-04
548	ALL	354273.1	3792918	NonCancerChronicDerived_Inh	2.30E-04
1879	ALL	353365.5	3793185	NonCancerChronicDerived_Inh	2.30E-04
1416	ALL	353515.5	3792785	NonCancerChronicDerived_Inh	2.30E-04
98	ALL	353873.1	3792568	NonCancerChronicDerived_Inh	2.29E-04
580	ALL	354298.1	3792943	NonCancerChronicDerived_Inh	2.29E-04
839	ALL	354473.1	3793143	NonCancerChronicDerived_Inh	2.29E-04
612	ALL	354323.1	3792968	NonCancerChronicDerived_Inh	2.29E-04
1359	ALL	353540.5	3792735	NonCancerChronicDerived_Inh	2.29E-04
1702	ALL	353415.5	3793035	NonCancerChronicDerived_Inh	2.29E-04
291	ALL	354048.1	3792718	NonCancerChronicDerived_Inh	2.29E-04
259	ALL	354023.1	3792693	NonCancerChronicDerived_Inh	2.29E-04
936	ALL	354523.1	3793218	NonCancerChronicDerived_Inh	2.29E-04
1616	ALL	353440.5	3792960	NonCancerChronicDerived_Inh	2.28E-04
972	ALL	354548.1	3793268	NonCancerChronicDerived_Inh	2.28E-04
452	ALL	354198.1	3792843	NonCancerChronicDerived_Inh	2.28E-04
1760	ALL	353390.5	3793085	NonCancerChronicDerived_Inh	2.28E-04
676	ALL	354373.1	3793018	NonCancerChronicDerived_Inh	2.28E-04
227	ALL	353998.1	3792668	NonCancerChronicDerived_Inh	2.28E-04
1473	ALL	353490.5	3792835	NonCancerChronicDerived_Inh	2.28E-04
420	ALL	354173.1	3792818	NonCancerChronicDerived_Inh	2.28E-04
388	ALL	354148.1	3792793	NonCancerChronicDerived_Inh	2.27E-04

356	ALL	354123.1	3792768	NonCancerChronicDerived_Inh	2.27E-04
741	ALL	354423.1	3793068	NonCancerChronicDerived_Inh	2.26E-04
708	ALL	354398.1	3793043	NonCancerChronicDerived_Inh	2.26E-04
195	ALL	353973.1	3792643	NonCancerChronicDerived_Inh	2.26E-04
872	ALL	354498.1	3793168	NonCancerChronicDerived_Inh	2.25E-04
1849	ALL	353365.5	3793160	NonCancerChronicDerived_Inh	2.25E-04
1530	ALL	353465.5	3792885	NonCancerChronicDerived_Inh	2.25E-04
163	ALL	353948.1	3792618	NonCancerChronicDerived_Inh	2.25E-04
1302	ALL	353565.5	3792685	NonCancerChronicDerived_Inh	2.24E-04
774	ALL	354448.1	3793093	NonCancerChronicDerived_Inh	2.24E-04
1134	ALL	353715.5	3792535	NonCancerChronicDerived_Inh	2.24E-04
324	ALL	354098.1	3792743	NonCancerChronicDerived_Inh	2.23E-04
1730	ALL	353390.5	3793060	NonCancerChronicDerived_Inh	2.23E-04
1587	ALL	353440.5	3792935	NonCancerChronicDerived_Inh	2.22E-04
517	ALL	354273.1	3792893	NonCancerChronicDerived_Inh	2.22E-04
953	ALL	354548.1	3793243	NonCancerChronicDerived_Inh	2.22E-04
1673	ALL	353415.5	3793010	NonCancerChronicDerived_Inh	2.22E-04
131	ALL	353923.1	3792593	NonCancerChronicDerived_Inh	2.22E-04
485	ALL	354248.1	3792868	NonCancerChronicDerived_Inh	2.22E-04
66	ALL	353848.1	3792543	NonCancerChronicDerived_Inh	2.22E-04
905	ALL	354523.1	3793193	NonCancerChronicDerived_Inh	2.21E-04
549	ALL	354298.1	3792918	NonCancerChronicDerived_Inh	2.21E-04
807	ALL	354473.1	3793118	NonCancerChronicDerived_Inh	2.21E-04
1819	ALL	353365.5	3793135	NonCancerChronicDerived_Inh	2.20E-04
292	ALL	354073.1	3792718	NonCancerChronicDerived_Inh	2.20E-04
1908	ALL	353340.5	3793210	NonCancerChronicDerived_Inh	2.20E-04
32	ALL	353773.1	3792518	NonCancerChronicDerived_Inh	2.20E-04
1387	ALL	353515.5	3792760	NonCancerChronicDerived_Inh	2.20E-04
1444	ALL	353490.5	3792810	NonCancerChronicDerived_Inh	2.20E-04
645	ALL	354373.1	3792993	NonCancerChronicDerived_Inh	2.20E-04
389	ALL	354173.1	3792793	NonCancerChronicDerived_Inh	2.19E-04
613	ALL	354348.1	3792968	NonCancerChronicDerived_Inh	2.19E-04
453	ALL	354223.1	3792843	NonCancerChronicDerived_Inh	2.19E-04
421	ALL	354198.1	3792818	NonCancerChronicDerived_Inh	2.19E-04
581	ALL	354323.1	3792943	NonCancerChronicDerived_Inh	2.19E-04
260	ALL	354048.1	3792693	NonCancerChronicDerived_Inh	2.19E-04
1644	ALL	353415.5	3792985	NonCancerChronicDerived_Inh	2.18E-04
228	ALL	354023.1	3792668	NonCancerChronicDerived_Inh	2.18E-04
1501	ALL	353465.5	3792860	NonCancerChronicDerived_Inh	2.18E-04
357	ALL	354148.1	3792768	NonCancerChronicDerived_Inh	2.18E-04
840	ALL	354498.1	3793143	NonCancerChronicDerived_Inh	2.17E-04
1189	ALL	353640.5	3792585	NonCancerChronicDerived_Inh	2.17E-04
677	ALL	354398.1	3793018	NonCancerChronicDerived_Inh	2.17E-04
325	ALL	354123.1	3792743	NonCancerChronicDerived_Inh	2.17E-04
1217	ALL	353615.5	3792610	NonCancerChronicDerived_Inh	2.17E-04
33	ALL	353798.1	3792518	NonCancerChronicDerived_Inh	2.17E-04
1330	ALL	353540.5	3792710	NonCancerChronicDerived_Inh	2.17E-04

1789	ALL	353365.5	3793110	NonCancerChronicDerived_Inh	2.17E-04
709	ALL	354423.1	3793043	NonCancerChronicDerived_Inh	2.17E-04
1878	ALL	353340.5	3793185	NonCancerChronicDerived_Inh	2.16E-04
99	ALL	353898.1	3792568	NonCancerChronicDerived_Inh	2.16E-04
1701	ALL	353390.5	3793035	NonCancerChronicDerived_Inh	2.16E-04
937	ALL	354548.1	3793218	NonCancerChronicDerived_Inh	2.16E-04
196	ALL	353998.1	3792643	NonCancerChronicDerived_Inh	2.16E-04
1558	ALL	353440.5	3792910	NonCancerChronicDerived_Inh	2.16E-04
742	ALL	354448.1	3793068	NonCancerChronicDerived_Inh	2.15E-04
1161	ALL	353665.5	3792560	NonCancerChronicDerived_Inh	2.14E-04
873	ALL	354523.1	3793168	NonCancerChronicDerived_Inh	2.14E-04
1245	ALL	353590.5	3792635	NonCancerChronicDerived_Inh	2.14E-04
293	ALL	354098.1	3792718	NonCancerChronicDerived_Inh	2.14E-04
164	ALL	353973.1	3792618	NonCancerChronicDerived_Inh	2.14E-04
486	ALL	354273.1	3792868	NonCancerChronicDerived_Inh	2.13E-04
518	ALL	354298.1	3792893	NonCancerChronicDerived_Inh	2.13E-04
1615	ALL	353415.5	3792960	NonCancerChronicDerived_Inh	2.13E-04
1759	ALL	353365.5	3793085	NonCancerChronicDerived_Inh	2.13E-04
775	ALL	354473.1	3793093	NonCancerChronicDerived_Inh	2.13E-04
1848	ALL	353340.5	3793160	NonCancerChronicDerived_Inh	2.12E-04
1415	ALL	353490.5	3792785	NonCancerChronicDerived_Inh	2.11E-04
390	ALL	354198.1	3792793	NonCancerChronicDerived_Inh	2.11E-04
550	ALL	354323.1	3792918	NonCancerChronicDerived_Inh	2.11E-04
454	ALL	354248.1	3792843	NonCancerChronicDerived_Inh	2.11E-04
358	ALL	354173.1	3792768	NonCancerChronicDerived_Inh	2.11E-04
422	ALL	354223.1	3792818	NonCancerChronicDerived_Inh	2.11E-04
582	ALL	354348.1	3792943	NonCancerChronicDerived_Inh	2.11E-04
132	ALL	353948.1	3792593	NonCancerChronicDerived_Inh	2.11E-04
614	ALL	354373.1	3792968	NonCancerChronicDerived_Inh	2.11E-04
261	ALL	354073.1	3792693	NonCancerChronicDerived_Inh	2.11E-04
1472	ALL	353465.5	3792835	NonCancerChronicDerived_Inh	2.10E-04
67	ALL	353873.1	3792543	NonCancerChronicDerived_Inh	2.10E-04
1273	ALL	353565.5	3792660	NonCancerChronicDerived_Inh	2.10E-04
34	ALL	353823.1	3792518	NonCancerChronicDerived_Inh	2.10E-04
1358	ALL	353515.5	3792735	NonCancerChronicDerived_Inh	2.10E-04
808	ALL	354498.1	3793118	NonCancerChronicDerived_Inh	2.09E-04
906	ALL	354548.1	3793193	NonCancerChronicDerived_Inh	2.09E-04
1529	ALL	353440.5	3792885	NonCancerChronicDerived_Inh	2.09E-04
229	ALL	354048.1	3792668	NonCancerChronicDerived_Inh	2.09E-04
1672	ALL	353390.5	3793010	NonCancerChronicDerived_Inh	2.09E-04
326	ALL	354148.1	3792743	NonCancerChronicDerived_Inh	2.09E-04
646	ALL	354398.1	3792993	NonCancerChronicDerived_Inh	2.09E-04
1133	ALL	353690.5	3792535	NonCancerChronicDerived_Inh	2.09E-04
1729	ALL	353365.5	3793060	NonCancerChronicDerived_Inh	2.08E-04
1907	ALL	353315.5	3793210	NonCancerChronicDerived_Inh	2.08E-04
678	ALL	354423.1	3793018	NonCancerChronicDerived_Inh	2.08E-04
1818	ALL	353340.5	3793135	NonCancerChronicDerived_Inh	2.07E-04

1586	ALL	353415.5	3792935	NonCancerChronicDerived_Inh	2.07E-04
197	ALL	354023.1	3792643	NonCancerChronicDerived_Inh	2.07E-04
841	ALL	354523.1	3793143	NonCancerChronicDerived_Inh	2.07E-04
294	ALL	354123.1	3792718	NonCancerChronicDerived_Inh	2.07E-04
710	ALL	354448.1	3793043	NonCancerChronicDerived_Inh	2.06E-04
100	ALL	353923.1	3792568	NonCancerChronicDerived_Inh	2.05E-04
487	ALL	354298.1	3792868	NonCancerChronicDerived_Inh	2.05E-04
1301	ALL	353540.5	3792685	NonCancerChronicDerived_Inh	2.05E-04
165	ALL	353998.1	3792618	NonCancerChronicDerived_Inh	2.04E-04
743	ALL	354473.1	3793068	NonCancerChronicDerived_Inh	2.04E-04
519	ALL	354323.1	3792893	NonCancerChronicDerived_Inh	2.04E-04
262	ALL	354098.1	3792693	NonCancerChronicDerived_Inh	2.04E-04
1788	ALL	353340.5	3793110	NonCancerChronicDerived_Inh	2.04E-04
1877	ALL	353315.5	3793185	NonCancerChronicDerived_Inh	2.04E-04
391	ALL	354223.1	3792793	NonCancerChronicDerived_Inh	2.04E-04
359	ALL	354198.1	3792768	NonCancerChronicDerived_Inh	2.03E-04
551	ALL	354348.1	3792918	NonCancerChronicDerived_Inh	2.03E-04
1443	ALL	353465.5	3792810	NonCancerChronicDerived_Inh	2.03E-04
1643	ALL	353390.5	3792985	NonCancerChronicDerived_Inh	2.03E-04
874	ALL	354548.1	3793168	NonCancerChronicDerived_Inh	2.03E-04
1700	ALL	353365.5	3793035	NonCancerChronicDerived_Inh	2.03E-04
423	ALL	354248.1	3792818	NonCancerChronicDerived_Inh	2.03E-04
455	ALL	354273.1	3792843	NonCancerChronicDerived_Inh	2.03E-04
1500	ALL	353440.5	3792860	NonCancerChronicDerived_Inh	2.03E-04
1386	ALL	353490.5	3792760	NonCancerChronicDerived_Inh	2.02E-04
776	ALL	354498.1	3793093	NonCancerChronicDerived_Inh	2.02E-04
583	ALL	354373.1	3792943	NonCancerChronicDerived_Inh	2.02E-04
327	ALL	354173.1	3792743	NonCancerChronicDerived_Inh	2.02E-04
133	ALL	353973.1	3792593	NonCancerChronicDerived_Inh	2.02E-04
1557	ALL	353415.5	3792910	NonCancerChronicDerived_Inh	2.01E-04
35	ALL	353848.1	3792518	NonCancerChronicDerived_Inh	2.01E-04
230	ALL	354073.1	3792668	NonCancerChronicDerived_Inh	2.01E-04
647	ALL	354423.1	3792993	NonCancerChronicDerived_Inh	2.01E-04
615	ALL	354398.1	3792968	NonCancerChronicDerived_Inh	2.00E-04
68	ALL	353898.1	3792543	NonCancerChronicDerived_Inh	2.00E-04
1758	ALL	353340.5	3793085	NonCancerChronicDerived_Inh	2.00E-04
295	ALL	354148.1	3792718	NonCancerChronicDerived_Inh	2.00E-04
809	ALL	354523.1	3793118	NonCancerChronicDerived_Inh	2.00E-04
1847	ALL	353315.5	3793160	NonCancerChronicDerived_Inh	1.99E-04
1188	ALL	353615.5	3792585	NonCancerChronicDerived_Inh	1.99E-04
1329	ALL	353515.5	3792710	NonCancerChronicDerived_Inh	1.99E-04
1105	ALL	353715.5	3792510	NonCancerChronicDerived_Inh	1.99E-04
198	ALL	354048.1	3792643	NonCancerChronicDerived_Inh	1.99E-04
1614	ALL	353390.5	3792960	NonCancerChronicDerived_Inh	1.99E-04
1216	ALL	353590.5	3792610	NonCancerChronicDerived_Inh	1.98E-04
679	ALL	354448.1	3793018	NonCancerChronicDerived_Inh	1.98E-04
263	ALL	354123.1	3792693	NonCancerChronicDerived_Inh	1.98E-04

1160	ALL	353640.5	3792560	NonCancerChronicDerived_Inh	1.98E-04
1671	ALL	353365.5	3793010	NonCancerChronicDerived_Inh	1.97E-04
488	ALL	354323.1	3792868	NonCancerChronicDerived_Inh	1.97E-04
360	ALL	354223.1	3792768	NonCancerChronicDerived_Inh	1.97E-04
711	ALL	354473.1	3793043	NonCancerChronicDerived_Inh	1.97E-04
166	ALL	354023.1	3792618	NonCancerChronicDerived_Inh	1.97E-04
101	ALL	353948.1	3792568	NonCancerChronicDerived_Inh	1.97E-04
842	ALL	354548.1	3793143	NonCancerChronicDerived_Inh	1.97E-04
520	ALL	354348.1	3792893	NonCancerChronicDerived_Inh	1.96E-04
392	ALL	354248.1	3792793	NonCancerChronicDerived_Inh	1.96E-04
1244	ALL	353565.5	3792635	NonCancerChronicDerived_Inh	1.96E-04
1906	ALL	353290.5	3793210	NonCancerChronicDerived_Inh	1.96E-04
1414	ALL	353465.5	3792785	NonCancerChronicDerived_Inh	1.96E-04
1	ALL	353773.1	3792493	NonCancerChronicDerived_Inh	1.96E-04
1728	ALL	353340.5	3793060	NonCancerChronicDerived_Inh	1.96E-04
1471	ALL	353440.5	3792835	NonCancerChronicDerived_Inh	1.96E-04
328	ALL	354198.1	3792743	NonCancerChronicDerived_Inh	1.95E-04
1528	ALL	353415.5	3792885	NonCancerChronicDerived_Inh	1.95E-04
424	ALL	354273.1	3792818	NonCancerChronicDerived_Inh	1.95E-04
744	ALL	354498.1	3793068	NonCancerChronicDerived_Inh	1.95E-04
456	ALL	354298.1	3792843	NonCancerChronicDerived_Inh	1.95E-04
1817	ALL	353315.5	3793135	NonCancerChronicDerived_Inh	1.95E-04
2	ALL	353798.1	3792493	NonCancerChronicDerived_Inh	1.95E-04
231	ALL	354098.1	3792668	NonCancerChronicDerived_Inh	1.94E-04
1132	ALL	353665.5	3792535	NonCancerChronicDerived_Inh	1.94E-04
1585	ALL	353390.5	3792935	NonCancerChronicDerived_Inh	1.94E-04
134	ALL	353998.1	3792593	NonCancerChronicDerived_Inh	1.94E-04
1357	ALL	353490.5	3792735	NonCancerChronicDerived_Inh	1.93E-04
552	ALL	354373.1	3792918	NonCancerChronicDerived_Inh	1.93E-04
296	ALL	354173.1	3792718	NonCancerChronicDerived_Inh	1.93E-04
777	ALL	354523.1	3793093	NonCancerChronicDerived_Inh	1.93E-04
36	ALL	353873.1	3792518	NonCancerChronicDerived_Inh	1.93E-04
616	ALL	354423.1	3792968	NonCancerChronicDerived_Inh	1.93E-04
1272	ALL	353540.5	3792660	NonCancerChronicDerived_Inh	1.93E-04
1787	ALL	353315.5	3793110	NonCancerChronicDerived_Inh	1.93E-04
584	ALL	354398.1	3792943	NonCancerChronicDerived_Inh	1.92E-04
199	ALL	354073.1	3792643	NonCancerChronicDerived_Inh	1.92E-04
1876	ALL	353290.5	3793185	NonCancerChronicDerived_Inh	1.92E-04
69	ALL	353923.1	3792543	NonCancerChronicDerived_Inh	1.92E-04
648	ALL	354448.1	3792993	NonCancerChronicDerived_Inh	1.91E-04
264	ALL	354148.1	3792693	NonCancerChronicDerived_Inh	1.91E-04
1642	ALL	353365.5	3792985	NonCancerChronicDerived_Inh	1.91E-04
1699	ALL	353340.5	3793035	NonCancerChronicDerived_Inh	1.91E-04
3	ALL	353823.1	3792493	NonCancerChronicDerived_Inh	1.91E-04
361	ALL	354248.1	3792768	NonCancerChronicDerived_Inh	1.90E-04
810	ALL	354548.1	3793118	NonCancerChronicDerived_Inh	1.90E-04
329	ALL	354223.1	3792743	NonCancerChronicDerived_Inh	1.90E-04

167	ALL	354048.1	3792618	NonCancerChronicDerived_Inh	1.90E-04
1757	ALL	353315.5	3793085	NonCancerChronicDerived_Inh	1.89E-04
680	ALL	354473.1	3793018	NonCancerChronicDerived_Inh	1.89E-04
489	ALL	354348.1	3792868	NonCancerChronicDerived_Inh	1.89E-04
102	ALL	353973.1	3792568	NonCancerChronicDerived_Inh	1.89E-04
1499	ALL	353415.5	3792860	NonCancerChronicDerived_Inh	1.89E-04
393	ALL	354273.1	3792793	NonCancerChronicDerived_Inh	1.89E-04
1300	ALL	353515.5	3792685	NonCancerChronicDerived_Inh	1.89E-04
1442	ALL	353440.5	3792810	NonCancerChronicDerived_Inh	1.89E-04
1104	ALL	353690.5	3792510	NonCancerChronicDerived_Inh	1.89E-04
1556	ALL	353390.5	3792910	NonCancerChronicDerived_Inh	1.88E-04
232	ALL	354123.1	3792668	NonCancerChronicDerived_Inh	1.88E-04
297	ALL	354198.1	3792718	NonCancerChronicDerived_Inh	1.88E-04
712	ALL	354498.1	3793043	NonCancerChronicDerived_Inh	1.88E-04
425	ALL	354298.1	3792818	NonCancerChronicDerived_Inh	1.88E-04
1385	ALL	353465.5	3792760	NonCancerChronicDerived_Inh	1.88E-04
1846	ALL	353290.5	3793160	NonCancerChronicDerived_Inh	1.88E-04
457	ALL	354323.1	3792843	NonCancerChronicDerived_Inh	1.87E-04
135	ALL	354023.1	3792593	NonCancerChronicDerived_Inh	1.87E-04
745	ALL	354523.1	3793068	NonCancerChronicDerived_Inh	1.87E-04
265	ALL	354173.1	3792693	NonCancerChronicDerived_Inh	1.86E-04
330	ALL	354248.1	3792743	NonCancerChronicDerived_Inh	1.86E-04
521	ALL	354373.1	3792893	NonCancerChronicDerived_Inh	1.86E-04
1670	ALL	353340.5	3793010	NonCancerChronicDerived_Inh	1.86E-04
1613	ALL	353365.5	3792960	NonCancerChronicDerived_Inh	1.86E-04
37	ALL	353898.1	3792518	NonCancerChronicDerived_Inh	1.86E-04
585	ALL	354423.1	3792943	NonCancerChronicDerived_Inh	1.86E-04
200	ALL	354098.1	3792643	NonCancerChronicDerived_Inh	1.85E-04
1727	ALL	353315.5	3793060	NonCancerChronicDerived_Inh	1.85E-04
4	ALL	353848.1	3792493	NonCancerChronicDerived_Inh	1.85E-04
553	ALL	354398.1	3792918	NonCancerChronicDerived_Inh	1.85E-04
362	ALL	354273.1	3792768	NonCancerChronicDerived_Inh	1.85E-04
70	ALL	353948.1	3792543	NonCancerChronicDerived_Inh	1.84E-04
617	ALL	354448.1	3792968	NonCancerChronicDerived_Inh	1.84E-04
1905	ALL	353265.5	3793210	NonCancerChronicDerived_Inh	1.84E-04
1328	ALL	353490.5	3792710	NonCancerChronicDerived_Inh	1.84E-04
778	ALL	354548.1	3793093	NonCancerChronicDerived_Inh	1.84E-04
1187	ALL	353590.5	3792585	NonCancerChronicDerived_Inh	1.84E-04
298	ALL	354223.1	3792718	NonCancerChronicDerived_Inh	1.83E-04
1159	ALL	353615.5	3792560	NonCancerChronicDerived_Inh	1.83E-04
1816	ALL	353290.5	3793135	NonCancerChronicDerived_Inh	1.83E-04
168	ALL	354073.1	3792618	NonCancerChronicDerived_Inh	1.83E-04
649	ALL	354473.1	3792993	NonCancerChronicDerived_Inh	1.83E-04
1527	ALL	353390.5	3792885	NonCancerChronicDerived_Inh	1.83E-04
1215	ALL	353565.5	3792610	NonCancerChronicDerived_Inh	1.83E-04
1470	ALL	353415.5	3792835	NonCancerChronicDerived_Inh	1.83E-04
103	ALL	353998.1	3792568	NonCancerChronicDerived_Inh	1.83E-04

233	ALL	354148.1	3792668	NonCancerChronicDerived_Inh	1.82E-04
394	ALL	354298.1	3792793	NonCancerChronicDerived_Inh	1.82E-04
1413	ALL	353440.5	3792785	NonCancerChronicDerived_Inh	1.82E-04
1641	ALL	353340.5	3792985	NonCancerChronicDerived_Inh	1.81E-04
1584	ALL	353365.5	3792935	NonCancerChronicDerived_Inh	1.81E-04
299	ALL	354248.1	3792718	NonCancerChronicDerived_Inh	1.81E-04
1131	ALL	353640.5	3792535	NonCancerChronicDerived_Inh	1.81E-04
331	ALL	354273.1	3792743	NonCancerChronicDerived_Inh	1.81E-04
681	ALL	354498.1	3793018	NonCancerChronicDerived_Inh	1.81E-04
1243	ALL	353540.5	3792635	NonCancerChronicDerived_Inh	1.81E-04
1786	ALL	353290.5	3793110	NonCancerChronicDerived_Inh	1.81E-04
266	ALL	354198.1	3792693	NonCancerChronicDerived_Inh	1.81E-04
1875	ALL	353265.5	3793185	NonCancerChronicDerived_Inh	1.81E-04
426	ALL	354323.1	3792818	NonCancerChronicDerived_Inh	1.81E-04
136	ALL	354048.1	3792593	NonCancerChronicDerived_Inh	1.81E-04
458	ALL	354348.1	3792843	NonCancerChronicDerived_Inh	1.80E-04
1698	ALL	353315.5	3793035	NonCancerChronicDerived_Inh	1.80E-04
713	ALL	354523.1	3793043	NonCancerChronicDerived_Inh	1.80E-04
1356	ALL	353465.5	3792735	NonCancerChronicDerived_Inh	1.80E-04
201	ALL	354123.1	3792643	NonCancerChronicDerived_Inh	1.79E-04
5	ALL	353873.1	3792493	NonCancerChronicDerived_Inh	1.79E-04
38	ALL	353923.1	3792518	NonCancerChronicDerived_Inh	1.79E-04
490	ALL	354373.1	3792868	NonCancerChronicDerived_Inh	1.79E-04
554	ALL	354423.1	3792918	NonCancerChronicDerived_Inh	1.79E-04
1756	ALL	353290.5	3793085	NonCancerChronicDerived_Inh	1.78E-04
1271	ALL	353515.5	3792660	NonCancerChronicDerived_Inh	1.78E-04
71	ALL	353973.1	3792543	NonCancerChronicDerived_Inh	1.78E-04
746	ALL	354548.1	3793068	NonCancerChronicDerived_Inh	1.78E-04
363	ALL	354298.1	3792768	NonCancerChronicDerived_Inh	1.78E-04
522	ALL	354398.1	3792893	NonCancerChronicDerived_Inh	1.78E-04
1103	ALL	353665.5	3792510	NonCancerChronicDerived_Inh	1.78E-04
234	ALL	354173.1	3792668	NonCancerChronicDerived_Inh	1.78E-04
586	ALL	354448.1	3792943	NonCancerChronicDerived_Inh	1.77E-04
1498	ALL	353390.5	3792860	NonCancerChronicDerived_Inh	1.77E-04
169	ALL	354098.1	3792618	NonCancerChronicDerived_Inh	1.77E-04
1555	ALL	353365.5	3792910	NonCancerChronicDerived_Inh	1.77E-04
1845	ALL	353265.5	3793160	NonCancerChronicDerived_Inh	1.77E-04
104	ALL	354023.1	3792568	NonCancerChronicDerived_Inh	1.77E-04
618	ALL	354473.1	3792968	NonCancerChronicDerived_Inh	1.77E-04
1441	ALL	353415.5	3792810	NonCancerChronicDerived_Inh	1.76E-04
1612	ALL	353340.5	3792960	NonCancerChronicDerived_Inh	1.76E-04
267	ALL	354223.1	3792693	NonCancerChronicDerived_Inh	1.76E-04
1669	ALL	353315.5	3793010	NonCancerChronicDerived_Inh	1.76E-04
300	ALL	354273.1	3792718	NonCancerChronicDerived_Inh	1.75E-04
650	ALL	354498.1	3792993	NonCancerChronicDerived_Inh	1.75E-04
1299	ALL	353490.5	3792685	NonCancerChronicDerived_Inh	1.75E-04
395	ALL	354323.1	3792793	NonCancerChronicDerived_Inh	1.75E-04

137	ALL	354073.1	3792593	NonCancerChronicDerived_Inh	1.75E-04
332	ALL	354298.1	3792743	NonCancerChronicDerived_Inh	1.75E-04
1384	ALL	353440.5	3792760	NonCancerChronicDerived_Inh	1.75E-04
1726	ALL	353290.5	3793060	NonCancerChronicDerived_Inh	1.75E-04
1904	ALL	353240.5	3793210	NonCancerChronicDerived_Inh	1.74E-04
427	ALL	354348.1	3792818	NonCancerChronicDerived_Inh	1.74E-04
6	ALL	353898.1	3792493	NonCancerChronicDerived_Inh	1.74E-04
202	ALL	354148.1	3792643	NonCancerChronicDerived_Inh	1.74E-04
39	ALL	353948.1	3792518	NonCancerChronicDerived_Inh	1.73E-04
682	ALL	354523.1	3793018	NonCancerChronicDerived_Inh	1.73E-04
1815	ALL	353265.5	3793135	NonCancerChronicDerived_Inh	1.73E-04
459	ALL	354373.1	3792843	NonCancerChronicDerived_Inh	1.73E-04
72	ALL	353998.1	3792543	NonCancerChronicDerived_Inh	1.73E-04
714	ALL	354548.1	3793043	NonCancerChronicDerived_Inh	1.72E-04
1526	ALL	353365.5	3792885	NonCancerChronicDerived_Inh	1.72E-04
268	ALL	354248.1	3792693	NonCancerChronicDerived_Inh	1.72E-04
523	ALL	354423.1	3792893	NonCancerChronicDerived_Inh	1.72E-04
235	ALL	354198.1	3792668	NonCancerChronicDerived_Inh	1.72E-04
1327	ALL	353465.5	3792710	NonCancerChronicDerived_Inh	1.72E-04
1469	ALL	353390.5	3792835	NonCancerChronicDerived_Inh	1.72E-04
170	ALL	354123.1	3792618	NonCancerChronicDerived_Inh	1.72E-04
491	ALL	354398.1	3792868	NonCancerChronicDerived_Inh	1.71E-04
364	ALL	354323.1	3792768	NonCancerChronicDerived_Inh	1.71E-04
105	ALL	354048.1	3792568	NonCancerChronicDerived_Inh	1.71E-04
1640	ALL	353315.5	3792985	NonCancerChronicDerived_Inh	1.71E-04
1186	ALL	353565.5	3792585	NonCancerChronicDerived_Inh	1.71E-04
1158	ALL	353590.5	3792560	NonCancerChronicDerived_Inh	1.71E-04
555	ALL	354448.1	3792918	NonCancerChronicDerived_Inh	1.71E-04
1583	ALL	353340.5	3792935	NonCancerChronicDerived_Inh	1.71E-04
1874	ALL	353240.5	3793185	NonCancerChronicDerived_Inh	1.71E-04
1785	ALL	353265.5	3793110	NonCancerChronicDerived_Inh	1.70E-04
1214	ALL	353540.5	3792610	NonCancerChronicDerived_Inh	1.70E-04
587	ALL	354473.1	3792943	NonCancerChronicDerived_Inh	1.70E-04
1697	ALL	353290.5	3793035	NonCancerChronicDerived_Inh	1.70E-04
1130	ALL	353615.5	3792535	NonCancerChronicDerived_Inh	1.70E-04
1412	ALL	353415.5	3792785	NonCancerChronicDerived_Inh	1.70E-04
138	ALL	354098.1	3792593	NonCancerChronicDerived_Inh	1.69E-04
619	ALL	354498.1	3792968	NonCancerChronicDerived_Inh	1.69E-04
1242	ALL	353515.5	3792635	NonCancerChronicDerived_Inh	1.68E-04
301	ALL	354298.1	3792718	NonCancerChronicDerived_Inh	1.68E-04
333	ALL	354323.1	3792743	NonCancerChronicDerived_Inh	1.68E-04
396	ALL	354348.1	3792793	NonCancerChronicDerived_Inh	1.68E-04
7	ALL	353923.1	3792493	NonCancerChronicDerived_Inh	1.68E-04
651	ALL	354523.1	3792993	NonCancerChronicDerived_Inh	1.68E-04
40	ALL	353973.1	3792518	NonCancerChronicDerived_Inh	1.68E-04
203	ALL	354173.1	3792643	NonCancerChronicDerived_Inh	1.68E-04
1755	ALL	353265.5	3793085	NonCancerChronicDerived_Inh	1.68E-04

1355	ALL	353440.5	3792735	NonCancerChronicDerived_Inh	1.68E-04
1102	ALL	353640.5	3792510	NonCancerChronicDerived_Inh	1.68E-04
269	ALL	354273.1	3792693	NonCancerChronicDerived_Inh	1.68E-04
73	ALL	354023.1	3792543	NonCancerChronicDerived_Inh	1.67E-04
1611	ALL	353315.5	3792960	NonCancerChronicDerived_Inh	1.67E-04
1844	ALL	353240.5	3793160	NonCancerChronicDerived_Inh	1.67E-04
1497	ALL	353365.5	3792860	NonCancerChronicDerived_Inh	1.67E-04
236	ALL	354223.1	3792668	NonCancerChronicDerived_Inh	1.67E-04
428	ALL	354373.1	3792818	NonCancerChronicDerived_Inh	1.67E-04
1270	ALL	353490.5	3792660	NonCancerChronicDerived_Inh	1.66E-04
106	ALL	354073.1	3792568	NonCancerChronicDerived_Inh	1.66E-04
1554	ALL	353340.5	3792910	NonCancerChronicDerived_Inh	1.66E-04
171	ALL	354148.1	3792618	NonCancerChronicDerived_Inh	1.66E-04
1668	ALL	353290.5	3793010	NonCancerChronicDerived_Inh	1.66E-04
1440	ALL	353390.5	3792810	NonCancerChronicDerived_Inh	1.66E-04
460	ALL	354398.1	3792843	NonCancerChronicDerived_Inh	1.65E-04
492	ALL	354423.1	3792868	NonCancerChronicDerived_Inh	1.65E-04
1903	ALL	353215.5	3793210	NonCancerChronicDerived_Inh	1.65E-04
1725	ALL	353265.5	3793060	NonCancerChronicDerived_Inh	1.65E-04
524	ALL	354448.1	3792893	NonCancerChronicDerived_Inh	1.64E-04
139	ALL	354123.1	3792593	NonCancerChronicDerived_Inh	1.64E-04
556	ALL	354473.1	3792918	NonCancerChronicDerived_Inh	1.64E-04
1298	ALL	353465.5	3792685	NonCancerChronicDerived_Inh	1.64E-04
365	ALL	354348.1	3792768	NonCancerChronicDerived_Inh	1.64E-04
8	ALL	353948.1	3792493	NonCancerChronicDerived_Inh	1.64E-04
1814	ALL	353240.5	3793135	NonCancerChronicDerived_Inh	1.63E-04
1383	ALL	353415.5	3792760	NonCancerChronicDerived_Inh	1.63E-04
41	ALL	353998.1	3792518	NonCancerChronicDerived_Inh	1.63E-04
302	ALL	354323.1	3792718	NonCancerChronicDerived_Inh	1.63E-04
588	ALL	354498.1	3792943	NonCancerChronicDerived_Inh	1.63E-04
204	ALL	354198.1	3792643	NonCancerChronicDerived_Inh	1.63E-04
620	ALL	354523.1	3792968	NonCancerChronicDerived_Inh	1.63E-04
74	ALL	354048.1	3792543	NonCancerChronicDerived_Inh	1.62E-04
1525	ALL	353340.5	3792885	NonCancerChronicDerived_Inh	1.62E-04
237	ALL	354248.1	3792668	NonCancerChronicDerived_Inh	1.62E-04
1582	ALL	353315.5	3792935	NonCancerChronicDerived_Inh	1.62E-04
1639	ALL	353290.5	3792985	NonCancerChronicDerived_Inh	1.62E-04
1873	ALL	353215.5	3793185	NonCancerChronicDerived_Inh	1.61E-04
1468	ALL	353365.5	3792835	NonCancerChronicDerived_Inh	1.61E-04
107	ALL	354098.1	3792568	NonCancerChronicDerived_Inh	1.61E-04
1784	ALL	353240.5	3793110	NonCancerChronicDerived_Inh	1.61E-04
397	ALL	354373.1	3792793	NonCancerChronicDerived_Inh	1.61E-04
1326	ALL	353440.5	3792710	NonCancerChronicDerived_Inh	1.61E-04
172	ALL	354173.1	3792618	NonCancerChronicDerived_Inh	1.61E-04
1696	ALL	353265.5	3793035	NonCancerChronicDerived_Inh	1.61E-04
1157	ALL	353565.5	3792560	NonCancerChronicDerived_Inh	1.60E-04
1185	ALL	353540.5	3792585	NonCancerChronicDerived_Inh	1.60E-04

270	ALL	354298.1	3792693	NonCancerChronicDerived_Inh	1.60E-04
429	ALL	354398.1	3792818	NonCancerChronicDerived_Inh	1.60E-04
1129	ALL	353590.5	3792535	NonCancerChronicDerived_Inh	1.60E-04
461	ALL	354423.1	3792843	NonCancerChronicDerived_Inh	1.60E-04
1411	ALL	353390.5	3792785	NonCancerChronicDerived_Inh	1.60E-04
334	ALL	354348.1	3792743	NonCancerChronicDerived_Inh	1.59E-04
1213	ALL	353515.5	3792610	NonCancerChronicDerived_Inh	1.59E-04
9	ALL	353973.1	3792493	NonCancerChronicDerived_Inh	1.59E-04
140	ALL	354148.1	3792593	NonCancerChronicDerived_Inh	1.59E-04
1754	ALL	353240.5	3793085	NonCancerChronicDerived_Inh	1.59E-04
42	ALL	354023.1	3792518	NonCancerChronicDerived_Inh	1.59E-04
1101	ALL	353615.5	3792510	NonCancerChronicDerived_Inh	1.58E-04
238	ALL	354273.1	3792668	NonCancerChronicDerived_Inh	1.58E-04
493	ALL	354448.1	3792868	NonCancerChronicDerived_Inh	1.58E-04
1843	ALL	353215.5	3793160	NonCancerChronicDerived_Inh	1.58E-04
1610	ALL	353290.5	3792960	NonCancerChronicDerived_Inh	1.58E-04
525	ALL	354473.1	3792893	NonCancerChronicDerived_Inh	1.58E-04
1241	ALL	353490.5	3792635	NonCancerChronicDerived_Inh	1.58E-04
75	ALL	354073.1	3792543	NonCancerChronicDerived_Inh	1.58E-04
1354	ALL	353415.5	3792735	NonCancerChronicDerived_Inh	1.58E-04
1496	ALL	353340.5	3792860	NonCancerChronicDerived_Inh	1.58E-04
205	ALL	354223.1	3792643	NonCancerChronicDerived_Inh	1.58E-04
557	ALL	354498.1	3792918	NonCancerChronicDerived_Inh	1.57E-04
1553	ALL	353315.5	3792910	NonCancerChronicDerived_Inh	1.57E-04
1667	ALL	353265.5	3793010	NonCancerChronicDerived_Inh	1.57E-04
589	ALL	354523.1	3792943	NonCancerChronicDerived_Inh	1.57E-04
108	ALL	354123.1	3792568	NonCancerChronicDerived_Inh	1.57E-04
1902	ALL	353190.5	3793210	NonCancerChronicDerived_Inh	1.56E-04
1439	ALL	353365.5	3792810	NonCancerChronicDerived_Inh	1.56E-04
1269	ALL	353465.5	3792660	NonCancerChronicDerived_Inh	1.56E-04
271	ALL	354323.1	3792693	NonCancerChronicDerived_Inh	1.56E-04
173	ALL	354198.1	3792618	NonCancerChronicDerived_Inh	1.56E-04
1724	ALL	353240.5	3793060	NonCancerChronicDerived_Inh	1.56E-04
303	ALL	354348.1	3792718	NonCancerChronicDerived_Inh	1.56E-04
366	ALL	354373.1	3792768	NonCancerChronicDerived_Inh	1.55E-04
10	ALL	353998.1	3792493	NonCancerChronicDerived_Inh	1.55E-04
1813	ALL	353215.5	3793135	NonCancerChronicDerived_Inh	1.55E-04
398	ALL	354398.1	3792793	NonCancerChronicDerived_Inh	1.55E-04
141	ALL	354173.1	3792593	NonCancerChronicDerived_Inh	1.55E-04
43	ALL	354048.1	3792518	NonCancerChronicDerived_Inh	1.54E-04
430	ALL	354423.1	3792818	NonCancerChronicDerived_Inh	1.54E-04
1581	ALL	353290.5	3792935	NonCancerChronicDerived_Inh	1.54E-04
1382	ALL	353390.5	3792760	NonCancerChronicDerived_Inh	1.54E-04
1297	ALL	353440.5	3792685	NonCancerChronicDerived_Inh	1.54E-04
76	ALL	354098.1	3792543	NonCancerChronicDerived_Inh	1.53E-04
1872	ALL	353190.5	3793185	NonCancerChronicDerived_Inh	1.53E-04
462	ALL	354448.1	3792843	NonCancerChronicDerived_Inh	1.53E-04

1638	ALL	353265.5	3792985	NonCancerChronicDerived_Inh	1.53E-04
206	ALL	354248.1	3792643	NonCancerChronicDerived_Inh	1.53E-04
1783	ALL	353215.5	3793110	NonCancerChronicDerived_Inh	1.53E-04
1524	ALL	353315.5	3792885	NonCancerChronicDerived_Inh	1.53E-04
1467	ALL	353340.5	3792835	NonCancerChronicDerived_Inh	1.53E-04
494	ALL	354473.1	3792868	NonCancerChronicDerived_Inh	1.52E-04
1695	ALL	353240.5	3793035	NonCancerChronicDerived_Inh	1.52E-04
239	ALL	354298.1	3792668	NonCancerChronicDerived_Inh	1.52E-04
526	ALL	354498.1	3792893	NonCancerChronicDerived_Inh	1.52E-04
109	ALL	354148.1	3792568	NonCancerChronicDerived_Inh	1.52E-04
1325	ALL	353415.5	3792710	NonCancerChronicDerived_Inh	1.51E-04
558	ALL	354523.1	3792918	NonCancerChronicDerived_Inh	1.51E-04
11	ALL	354023.1	3792493	NonCancerChronicDerived_Inh	1.51E-04
1156	ALL	353540.5	3792560	NonCancerChronicDerived_Inh	1.51E-04
174	ALL	354223.1	3792618	NonCancerChronicDerived_Inh	1.51E-04
1128	ALL	353565.5	3792535	NonCancerChronicDerived_Inh	1.51E-04
1184	ALL	353515.5	3792585	NonCancerChronicDerived_Inh	1.51E-04
335	ALL	354373.1	3792743	NonCancerChronicDerived_Inh	1.51E-04
1410	ALL	353365.5	3792785	NonCancerChronicDerived_Inh	1.51E-04
1753	ALL	353215.5	3793085	NonCancerChronicDerived_Inh	1.50E-04
44	ALL	354073.1	3792518	NonCancerChronicDerived_Inh	1.50E-04
1100	ALL	353590.5	3792510	NonCancerChronicDerived_Inh	1.50E-04
1842	ALL	353190.5	3793160	NonCancerChronicDerived_Inh	1.50E-04
142	ALL	354198.1	3792593	NonCancerChronicDerived_Inh	1.50E-04
1552	ALL	353290.5	3792910	NonCancerChronicDerived_Inh	1.50E-04
1212	ALL	353490.5	3792610	NonCancerChronicDerived_Inh	1.50E-04
1609	ALL	353265.5	3792960	NonCancerChronicDerived_Inh	1.50E-04
207	ALL	354273.1	3792643	NonCancerChronicDerived_Inh	1.49E-04
367	ALL	354398.1	3792768	NonCancerChronicDerived_Inh	1.49E-04
1495	ALL	353315.5	3792860	NonCancerChronicDerived_Inh	1.49E-04
272	ALL	354348.1	3792693	NonCancerChronicDerived_Inh	1.49E-04
399	ALL	354423.1	3792793	NonCancerChronicDerived_Inh	1.49E-04
77	ALL	354123.1	3792543	NonCancerChronicDerived_Inh	1.49E-04
1353	ALL	353390.5	3792735	NonCancerChronicDerived_Inh	1.49E-04
1666	ALL	353240.5	3793010	NonCancerChronicDerived_Inh	1.49E-04
1240	ALL	353465.5	3792635	NonCancerChronicDerived_Inh	1.49E-04
1901	ALL	353165.5	3793210	NonCancerChronicDerived_Inh	1.49E-04
431	ALL	354448.1	3792818	NonCancerChronicDerived_Inh	1.48E-04
240	ALL	354323.1	3792668	NonCancerChronicDerived_Inh	1.48E-04
1723	ALL	353215.5	3793060	NonCancerChronicDerived_Inh	1.48E-04
110	ALL	354173.1	3792568	NonCancerChronicDerived_Inh	1.48E-04
1438	ALL	353340.5	3792810	NonCancerChronicDerived_Inh	1.48E-04
463	ALL	354473.1	3792843	NonCancerChronicDerived_Inh	1.47E-04
12	ALL	354048.1	3792493	NonCancerChronicDerived_Inh	1.47E-04
1812	ALL	353190.5	3793135	NonCancerChronicDerived_Inh	1.47E-04
304	ALL	354373.1	3792718	NonCancerChronicDerived_Inh	1.47E-04
1268	ALL	353440.5	3792660	NonCancerChronicDerived_Inh	1.47E-04

495	ALL	354498.1	3792868	NonCancerChronicDerived_Inh	1.47E-04
45	ALL	354098.1	3792518	NonCancerChronicDerived_Inh	1.46E-04
527	ALL	354523.1	3792893	NonCancerChronicDerived_Inh	1.46E-04
175	ALL	354248.1	3792618	NonCancerChronicDerived_Inh	1.46E-04
1580	ALL	353265.5	3792935	NonCancerChronicDerived_Inh	1.46E-04
1871	ALL	353165.5	3793185	NonCancerChronicDerived_Inh	1.46E-04
1381	ALL	353365.5	3792760	NonCancerChronicDerived_Inh	1.45E-04
143	ALL	354223.1	3792593	NonCancerChronicDerived_Inh	1.45E-04
1296	ALL	353415.5	3792685	NonCancerChronicDerived_Inh	1.45E-04
1637	ALL	353240.5	3792985	NonCancerChronicDerived_Inh	1.45E-04
78	ALL	354148.1	3792543	NonCancerChronicDerived_Inh	1.45E-04
1782	ALL	353190.5	3793110	NonCancerChronicDerived_Inh	1.45E-04
1466	ALL	353315.5	3792835	NonCancerChronicDerived_Inh	1.45E-04
1523	ALL	353290.5	3792885	NonCancerChronicDerived_Inh	1.45E-04
1694	ALL	353215.5	3793035	NonCancerChronicDerived_Inh	1.44E-04
336	ALL	354398.1	3792743	NonCancerChronicDerived_Inh	1.44E-04
208	ALL	354298.1	3792643	NonCancerChronicDerived_Inh	1.44E-04
368	ALL	354423.1	3792768	NonCancerChronicDerived_Inh	1.44E-04
400	ALL	354448.1	3792793	NonCancerChronicDerived_Inh	1.44E-04
13	ALL	354073.1	3792493	NonCancerChronicDerived_Inh	1.44E-04
111	ALL	354198.1	3792568	NonCancerChronicDerived_Inh	1.44E-04
1324	ALL	353390.5	3792710	NonCancerChronicDerived_Inh	1.43E-04
1841	ALL	353165.5	3793160	NonCancerChronicDerived_Inh	1.43E-04
1752	ALL	353190.5	3793085	NonCancerChronicDerived_Inh	1.43E-04
1155	ALL	353515.5	3792560	NonCancerChronicDerived_Inh	1.43E-04
1127	ALL	353540.5	3792535	NonCancerChronicDerived_Inh	1.43E-04
1409	ALL	353340.5	3792785	NonCancerChronicDerived_Inh	1.43E-04
1551	ALL	353265.5	3792910	NonCancerChronicDerived_Inh	1.43E-04
46	ALL	354123.1	3792518	NonCancerChronicDerived_Inh	1.43E-04
432	ALL	354473.1	3792818	NonCancerChronicDerived_Inh	1.43E-04
241	ALL	354348.1	3792668	NonCancerChronicDerived_Inh	1.43E-04
1099	ALL	353565.5	3792510	NonCancerChronicDerived_Inh	1.43E-04
1183	ALL	353490.5	3792585	NonCancerChronicDerived_Inh	1.42E-04
1608	ALL	353240.5	3792960	NonCancerChronicDerived_Inh	1.42E-04
464	ALL	354498.1	3792843	NonCancerChronicDerived_Inh	1.42E-04
176	ALL	354273.1	3792618	NonCancerChronicDerived_Inh	1.42E-04
496	ALL	354523.1	3792868	NonCancerChronicDerived_Inh	1.42E-04
1211	ALL	353465.5	3792610	NonCancerChronicDerived_Inh	1.42E-04
1900	ALL	353140.5	3793210	NonCancerChronicDerived_Inh	1.41E-04
79	ALL	354173.1	3792543	NonCancerChronicDerived_Inh	1.41E-04
144	ALL	354248.1	3792593	NonCancerChronicDerived_Inh	1.41E-04
1665	ALL	353215.5	3793010	NonCancerChronicDerived_Inh	1.41E-04
1494	ALL	353290.5	3792860	NonCancerChronicDerived_Inh	1.41E-04
273	ALL	354373.1	3792693	NonCancerChronicDerived_Inh	1.41E-04
1352	ALL	353365.5	3792735	NonCancerChronicDerived_Inh	1.41E-04
1239	ALL	353440.5	3792635	NonCancerChronicDerived_Inh	1.41E-04
1722	ALL	353190.5	3793060	NonCancerChronicDerived_Inh	1.40E-04

1811	ALL	353165.5	3793135	NonCancerChronicDerived_Inh	1.40E-04
14	ALL	354098.1	3792493	NonCancerChronicDerived_Inh	1.40E-04
1437	ALL	353315.5	3792810	NonCancerChronicDerived_Inh	1.40E-04
209	ALL	354323.1	3792643	NonCancerChronicDerived_Inh	1.40E-04
337	ALL	354423.1	3792743	NonCancerChronicDerived_Inh	1.40E-04
305	ALL	354398.1	3792718	NonCancerChronicDerived_Inh	1.39E-04
112	ALL	354223.1	3792568	NonCancerChronicDerived_Inh	1.39E-04
369	ALL	354448.1	3792768	NonCancerChronicDerived_Inh	1.39E-04
1267	ALL	353415.5	3792660	NonCancerChronicDerived_Inh	1.39E-04
1870	ALL	353140.5	3793185	NonCancerChronicDerived_Inh	1.39E-04
47	ALL	354148.1	3792518	NonCancerChronicDerived_Inh	1.39E-04
1522	ALL	353265.5	3792885	NonCancerChronicDerived_Inh	1.39E-04
1579	ALL	353240.5	3792935	NonCancerChronicDerived_Inh	1.39E-04
1781	ALL	353165.5	3793110	NonCancerChronicDerived_Inh	1.38E-04
401	ALL	354473.1	3792793	NonCancerChronicDerived_Inh	1.38E-04
1380	ALL	353340.5	3792760	NonCancerChronicDerived_Inh	1.38E-04
1636	ALL	353215.5	3792985	NonCancerChronicDerived_Inh	1.38E-04
177	ALL	354298.1	3792618	NonCancerChronicDerived_Inh	1.38E-04
1693	ALL	353190.5	3793035	NonCancerChronicDerived_Inh	1.37E-04
1295	ALL	353390.5	3792685	NonCancerChronicDerived_Inh	1.37E-04
433	ALL	354498.1	3792818	NonCancerChronicDerived_Inh	1.37E-04
80	ALL	354198.1	3792543	NonCancerChronicDerived_Inh	1.37E-04
1465	ALL	353290.5	3792835	NonCancerChronicDerived_Inh	1.37E-04
145	ALL	354273.1	3792593	NonCancerChronicDerived_Inh	1.37E-04
465	ALL	354523.1	3792843	NonCancerChronicDerived_Inh	1.37E-04
15	ALL	354123.1	3792493	NonCancerChronicDerived_Inh	1.37E-04
1840	ALL	353140.5	3793160	NonCancerChronicDerived_Inh	1.36E-04
1751	ALL	353165.5	3793085	NonCancerChronicDerived_Inh	1.36E-04
210	ALL	354348.1	3792643	NonCancerChronicDerived_Inh	1.36E-04
1408	ALL	353315.5	3792785	NonCancerChronicDerived_Inh	1.36E-04
1126	ALL	353515.5	3792535	NonCancerChronicDerived_Inh	1.36E-04
1550	ALL	353240.5	3792910	NonCancerChronicDerived_Inh	1.36E-04
48	ALL	354173.1	3792518	NonCancerChronicDerived_Inh	1.36E-04
1154	ALL	353490.5	3792560	NonCancerChronicDerived_Inh	1.35E-04
242	ALL	354373.1	3792668	NonCancerChronicDerived_Inh	1.35E-04
1323	ALL	353365.5	3792710	NonCancerChronicDerived_Inh	1.35E-04
113	ALL	354248.1	3792568	NonCancerChronicDerived_Inh	1.35E-04
1098	ALL	353540.5	3792510	NonCancerChronicDerived_Inh	1.35E-04
306	ALL	354423.1	3792718	NonCancerChronicDerived_Inh	1.35E-04
1182	ALL	353465.5	3792585	NonCancerChronicDerived_Inh	1.35E-04
1899	ALL	353115.5	3793210	NonCancerChronicDerived_Inh	1.35E-04
1607	ALL	353215.5	3792960	NonCancerChronicDerived_Inh	1.35E-04
274	ALL	354398.1	3792693	NonCancerChronicDerived_Inh	1.35E-04
338	ALL	354448.1	3792743	NonCancerChronicDerived_Inh	1.35E-04
1210	ALL	353440.5	3792610	NonCancerChronicDerived_Inh	1.34E-04
1664	ALL	353190.5	3793010	NonCancerChronicDerived_Inh	1.34E-04
1810	ALL	353140.5	3793135	NonCancerChronicDerived_Inh	1.34E-04

178	ALL	354323.1	3792618	NonCancerChronicDerived_Inh	1.34E-04
370	ALL	354473.1	3792768	NonCancerChronicDerived_Inh	1.34E-04
1721	ALL	353165.5	3793060	NonCancerChronicDerived_Inh	1.34E-04
81	ALL	354223.1	3792543	NonCancerChronicDerived_Inh	1.34E-04
1493	ALL	353265.5	3792860	NonCancerChronicDerived_Inh	1.33E-04
1436	ALL	353290.5	3792810	NonCancerChronicDerived_Inh	1.33E-04
146	ALL	354298.1	3792593	NonCancerChronicDerived_Inh	1.33E-04
1238	ALL	353415.5	3792635	NonCancerChronicDerived_Inh	1.33E-04
1351	ALL	353340.5	3792735	NonCancerChronicDerived_Inh	1.33E-04
402	ALL	354498.1	3792793	NonCancerChronicDerived_Inh	1.33E-04
16	ALL	354148.1	3792493	NonCancerChronicDerived_Inh	1.33E-04
434	ALL	354523.1	3792818	NonCancerChronicDerived_Inh	1.33E-04
1869	ALL	353115.5	3793185	NonCancerChronicDerived_Inh	1.33E-04
1521	ALL	353240.5	3792885	NonCancerChronicDerived_Inh	1.32E-04
1266	ALL	353390.5	3792660	NonCancerChronicDerived_Inh	1.32E-04
49	ALL	354198.1	3792518	NonCancerChronicDerived_Inh	1.32E-04
1578	ALL	353215.5	3792935	NonCancerChronicDerived_Inh	1.32E-04
1780	ALL	353140.5	3793110	NonCancerChronicDerived_Inh	1.32E-04
114	ALL	354273.1	3792568	NonCancerChronicDerived_Inh	1.32E-04
1379	ALL	353315.5	3792760	NonCancerChronicDerived_Inh	1.31E-04
1635	ALL	353190.5	3792985	NonCancerChronicDerived_Inh	1.31E-04
1692	ALL	353165.5	3793035	NonCancerChronicDerived_Inh	1.31E-04
275	ALL	354423.1	3792693	NonCancerChronicDerived_Inh	1.31E-04
211	ALL	354373.1	3792643	NonCancerChronicDerived_Inh	1.31E-04
307	ALL	354448.1	3792718	NonCancerChronicDerived_Inh	1.30E-04
1294	ALL	353365.5	3792685	NonCancerChronicDerived_Inh	1.30E-04
1839	ALL	353115.5	3793160	NonCancerChronicDerived_Inh	1.30E-04
17	ALL	354173.1	3792493	NonCancerChronicDerived_Inh	1.30E-04
243	ALL	354398.1	3792668	NonCancerChronicDerived_Inh	1.30E-04
1464	ALL	353265.5	3792835	NonCancerChronicDerived_Inh	1.30E-04
82	ALL	354248.1	3792543	NonCancerChronicDerived_Inh	1.30E-04
179	ALL	354348.1	3792618	NonCancerChronicDerived_Inh	1.30E-04
339	ALL	354473.1	3792743	NonCancerChronicDerived_Inh	1.30E-04
1750	ALL	353140.5	3793085	NonCancerChronicDerived_Inh	1.30E-04
147	ALL	354323.1	3792593	NonCancerChronicDerived_Inh	1.30E-04
1407	ALL	353290.5	3792785	NonCancerChronicDerived_Inh	1.29E-04
1125	ALL	353490.5	3792535	NonCancerChronicDerived_Inh	1.29E-04
403	ALL	354523.1	3792793	NonCancerChronicDerived_Inh	1.29E-04
1898	ALL	353090.5	3793210	NonCancerChronicDerived_Inh	1.29E-04
1549	ALL	353215.5	3792910	NonCancerChronicDerived_Inh	1.29E-04
1153	ALL	353465.5	3792560	NonCancerChronicDerived_Inh	1.29E-04
1097	ALL	353515.5	3792510	NonCancerChronicDerived_Inh	1.29E-04
371	ALL	354498.1	3792768	NonCancerChronicDerived_Inh	1.29E-04
1322	ALL	353340.5	3792710	NonCancerChronicDerived_Inh	1.29E-04
1492	ALL	353240.5	3792860	NonCancerChronicDerived_Inh	1.29E-04
1181	ALL	353440.5	3792585	NonCancerChronicDerived_Inh	1.29E-04
1606	ALL	353190.5	3792960	NonCancerChronicDerived_Inh	1.29E-04

50	ALL	354223.1	3792518	NonCancerChronicDerived_Inh	1.28E-04
1663	ALL	353165.5	3793010	NonCancerChronicDerived_Inh	1.28E-04
1209	ALL	353415.5	3792610	NonCancerChronicDerived_Inh	1.28E-04
115	ALL	354298.1	3792568	NonCancerChronicDerived_Inh	1.28E-04
1809	ALL	353115.5	3793135	NonCancerChronicDerived_Inh	1.28E-04
1720	ALL	353140.5	3793060	NonCancerChronicDerived_Inh	1.27E-04
1350	ALL	353315.5	3792735	NonCancerChronicDerived_Inh	1.27E-04
18	ALL	354198.1	3792493	NonCancerChronicDerived_Inh	1.27E-04
1868	ALL	353090.5	3793185	NonCancerChronicDerived_Inh	1.27E-04
1435	ALL	353265.5	3792810	NonCancerChronicDerived_Inh	1.27E-04
1237	ALL	353390.5	3792635	NonCancerChronicDerived_Inh	1.27E-04
276	ALL	354448.1	3792693	NonCancerChronicDerived_Inh	1.26E-04
244	ALL	354423.1	3792668	NonCancerChronicDerived_Inh	1.26E-04
83	ALL	354273.1	3792543	NonCancerChronicDerived_Inh	1.26E-04
1520	ALL	353215.5	3792885	NonCancerChronicDerived_Inh	1.26E-04
1779	ALL	353115.5	3793110	NonCancerChronicDerived_Inh	1.26E-04
1577	ALL	353190.5	3792935	NonCancerChronicDerived_Inh	1.26E-04
180	ALL	354373.1	3792618	NonCancerChronicDerived_Inh	1.26E-04
212	ALL	354398.1	3792643	NonCancerChronicDerived_Inh	1.26E-04
1265	ALL	353365.5	3792660	NonCancerChronicDerived_Inh	1.25E-04
148	ALL	354348.1	3792593	NonCancerChronicDerived_Inh	1.25E-04
308	ALL	354473.1	3792718	NonCancerChronicDerived_Inh	1.25E-04
1634	ALL	353165.5	3792985	NonCancerChronicDerived_Inh	1.25E-04
1378	ALL	353290.5	3792760	NonCancerChronicDerived_Inh	1.25E-04
372	ALL	354523.1	3792768	NonCancerChronicDerived_Inh	1.25E-04
51	ALL	354248.1	3792518	NonCancerChronicDerived_Inh	1.25E-04
1691	ALL	353140.5	3793035	NonCancerChronicDerived_Inh	1.25E-04
340	ALL	354498.1	3792743	NonCancerChronicDerived_Inh	1.25E-04
1838	ALL	353090.5	3793160	NonCancerChronicDerived_Inh	1.24E-04
116	ALL	354323.1	3792568	NonCancerChronicDerived_Inh	1.24E-04
1293	ALL	353340.5	3792685	NonCancerChronicDerived_Inh	1.24E-04
19	ALL	354223.1	3792493	NonCancerChronicDerived_Inh	1.24E-04
1463	ALL	353240.5	3792835	NonCancerChronicDerived_Inh	1.24E-04
1749	ALL	353115.5	3793085	NonCancerChronicDerived_Inh	1.24E-04
1897	ALL	353065.5	3793210	NonCancerChronicDerived_Inh	1.23E-04
1406	ALL	353265.5	3792785	NonCancerChronicDerived_Inh	1.23E-04
1124	ALL	353465.5	3792535	NonCancerChronicDerived_Inh	1.23E-04
1096	ALL	353490.5	3792510	NonCancerChronicDerived_Inh	1.23E-04
1152	ALL	353440.5	3792560	NonCancerChronicDerived_Inh	1.23E-04
1548	ALL	353190.5	3792910	NonCancerChronicDerived_Inh	1.23E-04
1321	ALL	353315.5	3792710	NonCancerChronicDerived_Inh	1.23E-04
1605	ALL	353165.5	3792960	NonCancerChronicDerived_Inh	1.23E-04
84	ALL	354298.1	3792543	NonCancerChronicDerived_Inh	1.23E-04
1491	ALL	353215.5	3792860	NonCancerChronicDerived_Inh	1.23E-04
1180	ALL	353415.5	3792585	NonCancerChronicDerived_Inh	1.23E-04
1662	ALL	353140.5	3793010	NonCancerChronicDerived_Inh	1.22E-04
1808	ALL	353090.5	3793135	NonCancerChronicDerived_Inh	1.22E-04

245	ALL	354448.1	3792668	NonCancerChronicDerived_Inh	1.22E-04
1208	ALL	353390.5	3792610	NonCancerChronicDerived_Inh	1.22E-04
52	ALL	354273.1	3792518	NonCancerChronicDerived_Inh	1.22E-04
277	ALL	354473.1	3792693	NonCancerChronicDerived_Inh	1.22E-04
149	ALL	354373.1	3792593	NonCancerChronicDerived_Inh	1.22E-04
213	ALL	354423.1	3792643	NonCancerChronicDerived_Inh	1.22E-04
181	ALL	354398.1	3792618	NonCancerChronicDerived_Inh	1.21E-04
1719	ALL	353115.5	3793060	NonCancerChronicDerived_Inh	1.21E-04
1867	ALL	353065.5	3793185	NonCancerChronicDerived_Inh	1.21E-04
1349	ALL	353290.5	3792735	NonCancerChronicDerived_Inh	1.21E-04
341	ALL	354523.1	3792743	NonCancerChronicDerived_Inh	1.21E-04
117	ALL	354348.1	3792568	NonCancerChronicDerived_Inh	1.21E-04
1236	ALL	353365.5	3792635	NonCancerChronicDerived_Inh	1.21E-04
20	ALL	354248.1	3792493	NonCancerChronicDerived_Inh	1.21E-04
1778	ALL	353090.5	3793110	NonCancerChronicDerived_Inh	1.21E-04
309	ALL	354498.1	3792718	NonCancerChronicDerived_Inh	1.21E-04
1576	ALL	353165.5	3792935	NonCancerChronicDerived_Inh	1.20E-04
1434	ALL	353240.5	3792810	NonCancerChronicDerived_Inh	1.20E-04
1519	ALL	353190.5	3792885	NonCancerChronicDerived_Inh	1.20E-04
1633	ALL	353140.5	3792985	NonCancerChronicDerived_Inh	1.20E-04
1264	ALL	353340.5	3792660	NonCancerChronicDerived_Inh	1.20E-04
1377	ALL	353265.5	3792760	NonCancerChronicDerived_Inh	1.19E-04
85	ALL	354323.1	3792543	NonCancerChronicDerived_Inh	1.19E-04
1462	ALL	353215.5	3792835	NonCancerChronicDerived_Inh	1.19E-04
1690	ALL	353115.5	3793035	NonCancerChronicDerived_Inh	1.19E-04
1837	ALL	353065.5	3793160	NonCancerChronicDerived_Inh	1.19E-04
1292	ALL	353315.5	3792685	NonCancerChronicDerived_Inh	1.19E-04
1748	ALL	353090.5	3793085	NonCancerChronicDerived_Inh	1.19E-04
53	ALL	354298.1	3792518	NonCancerChronicDerived_Inh	1.18E-04
1896	ALL	353040.5	3793210	NonCancerChronicDerived_Inh	1.18E-04
150	ALL	354398.1	3792593	NonCancerChronicDerived_Inh	1.18E-04
246	ALL	354473.1	3792668	NonCancerChronicDerived_Inh	1.18E-04
1123	ALL	353440.5	3792535	NonCancerChronicDerived_Inh	1.18E-04
1547	ALL	353165.5	3792910	NonCancerChronicDerived_Inh	1.18E-04
1095	ALL	353465.5	3792510	NonCancerChronicDerived_Inh	1.18E-04
1151	ALL	353415.5	3792560	NonCancerChronicDerived_Inh	1.18E-04
21	ALL	354273.1	3792493	NonCancerChronicDerived_Inh	1.18E-04
214	ALL	354448.1	3792643	NonCancerChronicDerived_Inh	1.18E-04
1490	ALL	353190.5	3792860	NonCancerChronicDerived_Inh	1.17E-04
1604	ALL	353140.5	3792960	NonCancerChronicDerived_Inh	1.17E-04
310	ALL	354523.1	3792718	NonCancerChronicDerived_Inh	1.17E-04
1320	ALL	353290.5	3792710	NonCancerChronicDerived_Inh	1.17E-04
182	ALL	354423.1	3792618	NonCancerChronicDerived_Inh	1.17E-04
1405	ALL	353240.5	3792785	NonCancerChronicDerived_Inh	1.17E-04
118	ALL	354373.1	3792568	NonCancerChronicDerived_Inh	1.17E-04
1179	ALL	353390.5	3792585	NonCancerChronicDerived_Inh	1.17E-04
1807	ALL	353065.5	3793135	NonCancerChronicDerived_Inh	1.17E-04

1661	ALL	353115.5	3793010	NonCancerChronicDerived_Inh	1.17E-04
278	ALL	354498.1	3792693	NonCancerChronicDerived_Inh	1.17E-04
1718	ALL	353090.5	3793060	NonCancerChronicDerived_Inh	1.16E-04
1207	ALL	353365.5	3792610	NonCancerChronicDerived_Inh	1.16E-04
1866	ALL	353040.5	3793185	NonCancerChronicDerived_Inh	1.16E-04
86	ALL	354348.1	3792543	NonCancerChronicDerived_Inh	1.16E-04
1348	ALL	353265.5	3792735	NonCancerChronicDerived_Inh	1.16E-04
1777	ALL	353065.5	3793110	NonCancerChronicDerived_Inh	1.16E-04
1235	ALL	353340.5	3792635	NonCancerChronicDerived_Inh	1.15E-04
1433	ALL	353215.5	3792810	NonCancerChronicDerived_Inh	1.15E-04
1518	ALL	353165.5	3792885	NonCancerChronicDerived_Inh	1.15E-04
1575	ALL	353140.5	3792935	NonCancerChronicDerived_Inh	1.15E-04
54	ALL	354323.1	3792518	NonCancerChronicDerived_Inh	1.15E-04
1632	ALL	353115.5	3792985	NonCancerChronicDerived_Inh	1.15E-04
1263	ALL	353315.5	3792660	NonCancerChronicDerived_Inh	1.14E-04
1689	ALL	353090.5	3793035	NonCancerChronicDerived_Inh	1.14E-04
22	ALL	354298.1	3792493	NonCancerChronicDerived_Inh	1.14E-04
1461	ALL	353190.5	3792835	NonCancerChronicDerived_Inh	1.14E-04
1836	ALL	353040.5	3793160	NonCancerChronicDerived_Inh	1.14E-04
1376	ALL	353240.5	3792760	NonCancerChronicDerived_Inh	1.14E-04
151	ALL	354423.1	3792593	NonCancerChronicDerived_Inh	1.14E-04
1747	ALL	353065.5	3793085	NonCancerChronicDerived_Inh	1.14E-04
119	ALL	354398.1	3792568	NonCancerChronicDerived_Inh	1.14E-04
279	ALL	354523.1	3792693	NonCancerChronicDerived_Inh	1.14E-04
215	ALL	354473.1	3792643	NonCancerChronicDerived_Inh	1.14E-04
247	ALL	354498.1	3792668	NonCancerChronicDerived_Inh	1.14E-04
1291	ALL	353290.5	3792685	NonCancerChronicDerived_Inh	1.13E-04
183	ALL	354448.1	3792618	NonCancerChronicDerived_Inh	1.13E-04
1895	ALL	353015.5	3793210	NonCancerChronicDerived_Inh	1.13E-04
1094	ALL	353440.5	3792510	NonCancerChronicDerived_Inh	1.13E-04
1122	ALL	353415.5	3792535	NonCancerChronicDerived_Inh	1.13E-04
1546	ALL	353140.5	3792910	NonCancerChronicDerived_Inh	1.13E-04
1150	ALL	353390.5	3792560	NonCancerChronicDerived_Inh	1.13E-04
87	ALL	354373.1	3792543	NonCancerChronicDerived_Inh	1.13E-04
1489	ALL	353165.5	3792860	NonCancerChronicDerived_Inh	1.12E-04
1603	ALL	353115.5	3792960	NonCancerChronicDerived_Inh	1.12E-04
1319	ALL	353265.5	3792710	NonCancerChronicDerived_Inh	1.12E-04
1806	ALL	353040.5	3793135	NonCancerChronicDerived_Inh	1.12E-04
1660	ALL	353090.5	3793010	NonCancerChronicDerived_Inh	1.12E-04
1178	ALL	353365.5	3792585	NonCancerChronicDerived_Inh	1.12E-04
1717	ALL	353065.5	3793060	NonCancerChronicDerived_Inh	1.12E-04
1404	ALL	353215.5	3792785	NonCancerChronicDerived_Inh	1.12E-04
55	ALL	354348.1	3792518	NonCancerChronicDerived_Inh	1.12E-04
1206	ALL	353340.5	3792610	NonCancerChronicDerived_Inh	1.11E-04
1865	ALL	353015.5	3793185	NonCancerChronicDerived_Inh	1.11E-04
23	ALL	354323.1	3792493	NonCancerChronicDerived_Inh	1.11E-04
1432	ALL	353190.5	3792810	NonCancerChronicDerived_Inh	1.11E-04

1347	ALL	353240.5	3792735	NonCancerChronicDerived_Inh	1.11E-04
1776	ALL	353040.5	3793110	NonCancerChronicDerived_Inh	1.11E-04
1234	ALL	353315.5	3792635	NonCancerChronicDerived_Inh	1.11E-04
152	ALL	354448.1	3792593	NonCancerChronicDerived_Inh	1.10E-04
1517	ALL	353140.5	3792885	NonCancerChronicDerived_Inh	1.10E-04
120	ALL	354423.1	3792568	NonCancerChronicDerived_Inh	1.10E-04
248	ALL	354523.1	3792668	NonCancerChronicDerived_Inh	1.10E-04
1574	ALL	353115.5	3792935	NonCancerChronicDerived_Inh	1.10E-04
216	ALL	354498.1	3792643	NonCancerChronicDerived_Inh	1.10E-04
1688	ALL	353065.5	3793035	NonCancerChronicDerived_Inh	1.10E-04
1631	ALL	353090.5	3792985	NonCancerChronicDerived_Inh	1.10E-04
184	ALL	354473.1	3792618	NonCancerChronicDerived_Inh	1.10E-04
1262	ALL	353290.5	3792660	NonCancerChronicDerived_Inh	1.10E-04
1835	ALL	353015.5	3793160	NonCancerChronicDerived_Inh	1.09E-04
88	ALL	354398.1	3792543	NonCancerChronicDerived_Inh	1.09E-04
1460	ALL	353165.5	3792835	NonCancerChronicDerived_Inh	1.09E-04
1746	ALL	353040.5	3793085	NonCancerChronicDerived_Inh	1.09E-04
1375	ALL	353215.5	3792760	NonCancerChronicDerived_Inh	1.09E-04
1290	ALL	353265.5	3792685	NonCancerChronicDerived_Inh	1.09E-04
56	ALL	354373.1	3792518	NonCancerChronicDerived_Inh	1.09E-04
1093	ALL	353415.5	3792510	NonCancerChronicDerived_Inh	1.08E-04
1121	ALL	353390.5	3792535	NonCancerChronicDerived_Inh	1.08E-04
1403	ALL	353190.5	3792785	NonCancerChronicDerived_Inh	1.08E-04
1545	ALL	353115.5	3792910	NonCancerChronicDerived_Inh	1.08E-04
1149	ALL	353365.5	3792560	NonCancerChronicDerived_Inh	1.08E-04
24	ALL	354348.1	3792493	NonCancerChronicDerived_Inh	1.08E-04
1602	ALL	353090.5	3792960	NonCancerChronicDerived_Inh	1.08E-04
1805	ALL	353015.5	3793135	NonCancerChronicDerived_Inh	1.08E-04
1488	ALL	353140.5	3792860	NonCancerChronicDerived_Inh	1.08E-04
1659	ALL	353065.5	3793010	NonCancerChronicDerived_Inh	1.08E-04
1318	ALL	353240.5	3792710	NonCancerChronicDerived_Inh	1.07E-04
1177	ALL	353340.5	3792585	NonCancerChronicDerived_Inh	1.07E-04
1716	ALL	353040.5	3793060	NonCancerChronicDerived_Inh	1.07E-04
121	ALL	354448.1	3792568	NonCancerChronicDerived_Inh	1.07E-04
1205	ALL	353315.5	3792610	NonCancerChronicDerived_Inh	1.07E-04
217	ALL	354523.1	3792643	NonCancerChronicDerived_Inh	1.07E-04
153	ALL	354473.1	3792593	NonCancerChronicDerived_Inh	1.07E-04
1431	ALL	353165.5	3792810	NonCancerChronicDerived_Inh	1.06E-04
185	ALL	354498.1	3792618	NonCancerChronicDerived_Inh	1.06E-04
1775	ALL	353015.5	3793110	NonCancerChronicDerived_Inh	1.06E-04
89	ALL	354423.1	3792543	NonCancerChronicDerived_Inh	1.06E-04
1233	ALL	353290.5	3792635	NonCancerChronicDerived_Inh	1.06E-04
57	ALL	354398.1	3792518	NonCancerChronicDerived_Inh	1.06E-04
1346	ALL	353215.5	3792735	NonCancerChronicDerived_Inh	1.06E-04
1516	ALL	353115.5	3792885	NonCancerChronicDerived_Inh	1.06E-04
1573	ALL	353090.5	3792935	NonCancerChronicDerived_Inh	1.06E-04
1687	ALL	353040.5	3793035	NonCancerChronicDerived_Inh	1.05E-04

25	ALL	354373.1	3792493	NonCancerChronicDerived_Inh	1.05E-04
1630	ALL	353065.5	3792985	NonCancerChronicDerived_Inh	1.05E-04
1261	ALL	353265.5	3792660	NonCancerChronicDerived_Inh	1.05E-04
1459	ALL	353140.5	3792835	NonCancerChronicDerived_Inh	1.05E-04
1745	ALL	353015.5	3793085	NonCancerChronicDerived_Inh	1.05E-04
1374	ALL	353190.5	3792760	NonCancerChronicDerived_Inh	1.05E-04
1289	ALL	353240.5	3792685	NonCancerChronicDerived_Inh	1.04E-04
1092	ALL	353390.5	3792510	NonCancerChronicDerived_Inh	1.04E-04
1120	ALL	353365.5	3792535	NonCancerChronicDerived_Inh	1.04E-04
1402	ALL	353165.5	3792785	NonCancerChronicDerived_Inh	1.04E-04
1148	ALL	353340.5	3792560	NonCancerChronicDerived_Inh	1.04E-04
122	ALL	354473.1	3792568	NonCancerChronicDerived_Inh	1.04E-04
154	ALL	354498.1	3792593	NonCancerChronicDerived_Inh	1.03E-04
1544	ALL	353090.5	3792910	NonCancerChronicDerived_Inh	1.03E-04
1176	ALL	353315.5	3792585	NonCancerChronicDerived_Inh	1.03E-04
90	ALL	354448.1	3792543	NonCancerChronicDerived_Inh	1.03E-04
1601	ALL	353065.5	3792960	NonCancerChronicDerived_Inh	1.03E-04
186	ALL	354523.1	3792618	NonCancerChronicDerived_Inh	1.03E-04
1658	ALL	353040.5	3793010	NonCancerChronicDerived_Inh	1.03E-04
1715	ALL	353015.5	3793060	NonCancerChronicDerived_Inh	1.03E-04
1487	ALL	353115.5	3792860	NonCancerChronicDerived_Inh	1.03E-04
58	ALL	354423.1	3792518	NonCancerChronicDerived_Inh	1.03E-04
1204	ALL	353290.5	3792610	NonCancerChronicDerived_Inh	1.03E-04
1317	ALL	353215.5	3792710	NonCancerChronicDerived_Inh	1.03E-04
26	ALL	354398.1	3792493	NonCancerChronicDerived_Inh	1.03E-04
1430	ALL	353140.5	3792810	NonCancerChronicDerived_Inh	1.02E-04
1232	ALL	353265.5	3792635	NonCancerChronicDerived_Inh	1.02E-04
1686	ALL	353015.5	3793035	NonCancerChronicDerived_Inh	1.01E-04
1572	ALL	353065.5	3792935	NonCancerChronicDerived_Inh	1.01E-04
1515	ALL	353090.5	3792885	NonCancerChronicDerived_Inh	1.01E-04
1629	ALL	353040.5	3792985	NonCancerChronicDerived_Inh	1.01E-04
1260	ALL	353240.5	3792660	NonCancerChronicDerived_Inh	1.01E-04
1373	ALL	353165.5	3792760	NonCancerChronicDerived_Inh	1.01E-04
1345	ALL	353190.5	3792735	NonCancerChronicDerived_Inh	1.01E-04
1458	ALL	353115.5	3792835	NonCancerChronicDerived_Inh	1.01E-04
91	ALL	354473.1	3792543	NonCancerChronicDerived_Inh	1.00E-04
155	ALL	354523.1	3792593	NonCancerChronicDerived_Inh	1.00E-04
123	ALL	354498.1	3792568	NonCancerChronicDerived_Inh	1.00E-04
1091	ALL	353365.5	3792510	NonCancerChronicDerived_Inh	1.00E-04
59	ALL	354448.1	3792518	NonCancerChronicDerived_Inh	1.00E-04
1119	ALL	353340.5	3792535	NonCancerChronicDerived_Inh	9.99E-05
1147	ALL	353315.5	3792560	NonCancerChronicDerived_Inh	9.99E-05
27	ALL	354423.1	3792493	NonCancerChronicDerived_Inh	9.99E-05
1288	ALL	353215.5	3792685	NonCancerChronicDerived_Inh	9.98E-05
1401	ALL	353140.5	3792785	NonCancerChronicDerived_Inh	9.96E-05
1175	ALL	353290.5	3792585	NonCancerChronicDerived_Inh	9.95E-05
1600	ALL	353040.5	3792960	NonCancerChronicDerived_Inh	9.95E-05

1657	ALL	353015.5	3793010	NonCancerChronicDerived_Inh	9.92E-05
1543	ALL	353065.5	3792910	NonCancerChronicDerived_Inh	9.91E-05
1486	ALL	353090.5	3792860	NonCancerChronicDerived_Inh	9.88E-05
1203	ALL	353265.5	3792610	NonCancerChronicDerived_Inh	9.87E-05
1429	ALL	353115.5	3792810	NonCancerChronicDerived_Inh	9.81E-05
1344	ALL	353165.5	3792735	NonCancerChronicDerived_Inh	9.80E-05
1231	ALL	353240.5	3792635	NonCancerChronicDerived_Inh	9.79E-05
1316	ALL	353190.5	3792710	NonCancerChronicDerived_Inh	9.78E-05
1571	ALL	353040.5	3792935	NonCancerChronicDerived_Inh	9.76E-05
124	ALL	354523.1	3792568	NonCancerChronicDerived_Inh	9.75E-05
60	ALL	354473.1	3792518	NonCancerChronicDerived_Inh	9.75E-05
92	ALL	354498.1	3792543	NonCancerChronicDerived_Inh	9.74E-05
28	ALL	354448.1	3792493	NonCancerChronicDerived_Inh	9.73E-05
1628	ALL	353015.5	3792985	NonCancerChronicDerived_Inh	9.72E-05
1259	ALL	353215.5	3792660	NonCancerChronicDerived_Inh	9.70E-05
1514	ALL	353065.5	3792885	NonCancerChronicDerived_Inh	9.70E-05
1372	ALL	353140.5	3792760	NonCancerChronicDerived_Inh	9.69E-05
1457	ALL	353090.5	3792835	NonCancerChronicDerived_Inh	9.65E-05
1118	ALL	353315.5	3792535	NonCancerChronicDerived_Inh	9.65E-05
1090	ALL	353340.5	3792510	NonCancerChronicDerived_Inh	9.65E-05
1146	ALL	353290.5	3792560	NonCancerChronicDerived_Inh	9.63E-05
1174	ALL	353265.5	3792585	NonCancerChronicDerived_Inh	9.57E-05
1400	ALL	353115.5	3792785	NonCancerChronicDerived_Inh	9.57E-05
1542	ALL	353040.5	3792910	NonCancerChronicDerived_Inh	9.56E-05
1599	ALL	353015.5	3792960	NonCancerChronicDerived_Inh	9.56E-05
1287	ALL	353190.5	3792685	NonCancerChronicDerived_Inh	9.55E-05
1315	ALL	353165.5	3792710	NonCancerChronicDerived_Inh	9.51E-05
1202	ALL	353240.5	3792610	NonCancerChronicDerived_Inh	9.50E-05
93	ALL	354523.1	3792543	NonCancerChronicDerived_Inh	9.49E-05
1485	ALL	353065.5	3792860	NonCancerChronicDerived_Inh	9.48E-05
61	ALL	354498.1	3792518	NonCancerChronicDerived_Inh	9.48E-05
29	ALL	354473.1	3792493	NonCancerChronicDerived_Inh	9.48E-05
1428	ALL	353090.5	3792810	NonCancerChronicDerived_Inh	9.43E-05
1230	ALL	353215.5	3792635	NonCancerChronicDerived_Inh	9.42E-05
1343	ALL	353140.5	3792735	NonCancerChronicDerived_Inh	9.42E-05
1570	ALL	353015.5	3792935	NonCancerChronicDerived_Inh	9.39E-05
1513	ALL	353040.5	3792885	NonCancerChronicDerived_Inh	9.36E-05
1089	ALL	353315.5	3792510	NonCancerChronicDerived_Inh	9.33E-05
1371	ALL	353115.5	3792760	NonCancerChronicDerived_Inh	9.32E-05
1117	ALL	353290.5	3792535	NonCancerChronicDerived_Inh	9.32E-05
1258	ALL	353190.5	3792660	NonCancerChronicDerived_Inh	9.32E-05
1145	ALL	353265.5	3792560	NonCancerChronicDerived_Inh	9.28E-05
1456	ALL	353065.5	3792835	NonCancerChronicDerived_Inh	9.27E-05
1286	ALL	353165.5	3792685	NonCancerChronicDerived_Inh	9.26E-05
62	ALL	354523.1	3792518	NonCancerChronicDerived_Inh	9.24E-05
30	ALL	354498.1	3792493	NonCancerChronicDerived_Inh	9.23E-05
1541	ALL	353015.5	3792910	NonCancerChronicDerived_Inh	9.22E-05

1173	ALL	353240.5	3792585	NonCancerChronicDerived_Inh	9.21E-05
1399	ALL	353090.5	3792785	NonCancerChronicDerived_Inh	9.20E-05
1314	ALL	353140.5	3792710	NonCancerChronicDerived_Inh	9.19E-05
1484	ALL	353040.5	3792860	NonCancerChronicDerived_Inh	9.16E-05
1201	ALL	353215.5	3792610	NonCancerChronicDerived_Inh	9.15E-05
1342	ALL	353115.5	3792735	NonCancerChronicDerived_Inh	9.07E-05
1427	ALL	353065.5	3792810	NonCancerChronicDerived_Inh	9.06E-05
1229	ALL	353190.5	3792635	NonCancerChronicDerived_Inh	9.06E-05
1512	ALL	353015.5	3792885	NonCancerChronicDerived_Inh	9.03E-05
1088	ALL	353290.5	3792510	NonCancerChronicDerived_Inh	9.01E-05
1257	ALL	353165.5	3792660	NonCancerChronicDerived_Inh	9.00E-05
31	ALL	354523.1	3792493	NonCancerChronicDerived_Inh	8.99E-05
1116	ALL	353265.5	3792535	NonCancerChronicDerived_Inh	8.99E-05
1370	ALL	353090.5	3792760	NonCancerChronicDerived_Inh	8.98E-05
1455	ALL	353040.5	3792835	NonCancerChronicDerived_Inh	8.96E-05
1285	ALL	353140.5	3792685	NonCancerChronicDerived_Inh	8.95E-05
1144	ALL	353240.5	3792560	NonCancerChronicDerived_Inh	8.94E-05
1172	ALL	353215.5	3792585	NonCancerChronicDerived_Inh	8.88E-05
1313	ALL	353115.5	3792710	NonCancerChronicDerived_Inh	8.87E-05
1398	ALL	353065.5	3792785	NonCancerChronicDerived_Inh	8.85E-05
1483	ALL	353015.5	3792860	NonCancerChronicDerived_Inh	8.83E-05
1200	ALL	353190.5	3792610	NonCancerChronicDerived_Inh	8.79E-05
1426	ALL	353040.5	3792810	NonCancerChronicDerived_Inh	8.76E-05
1341	ALL	353090.5	3792735	NonCancerChronicDerived_Inh	8.75E-05
1228	ALL	353165.5	3792635	NonCancerChronicDerived_Inh	8.75E-05
1087	ALL	353265.5	3792510	NonCancerChronicDerived_Inh	8.70E-05
1256	ALL	353140.5	3792660	NonCancerChronicDerived_Inh	8.70E-05
1115	ALL	353240.5	3792535	NonCancerChronicDerived_Inh	8.69E-05
1454	ALL	353015.5	3792835	NonCancerChronicDerived_Inh	8.65E-05
1284	ALL	353115.5	3792685	NonCancerChronicDerived_Inh	8.65E-05
1369	ALL	353065.5	3792760	NonCancerChronicDerived_Inh	8.64E-05
1143	ALL	353215.5	3792560	NonCancerChronicDerived_Inh	8.62E-05
1312	ALL	353090.5	3792710	NonCancerChronicDerived_Inh	8.56E-05
1397	ALL	353040.5	3792785	NonCancerChronicDerived_Inh	8.56E-05
1199	ALL	353165.5	3792610	NonCancerChronicDerived_Inh	8.53E-05
1171	ALL	353190.5	3792585	NonCancerChronicDerived_Inh	8.49E-05
1227	ALL	353140.5	3792635	NonCancerChronicDerived_Inh	8.46E-05
1425	ALL	353015.5	3792810	NonCancerChronicDerived_Inh	8.45E-05
1340	ALL	353065.5	3792735	NonCancerChronicDerived_Inh	8.45E-05
1086	ALL	353240.5	3792510	NonCancerChronicDerived_Inh	8.42E-05
1255	ALL	353115.5	3792660	NonCancerChronicDerived_Inh	8.42E-05
1114	ALL	353215.5	3792535	NonCancerChronicDerived_Inh	8.38E-05
1283	ALL	353090.5	3792685	NonCancerChronicDerived_Inh	8.36E-05
1368	ALL	353040.5	3792760	NonCancerChronicDerived_Inh	8.35E-05
1170	ALL	353165.5	3792585	NonCancerChronicDerived_Inh	8.29E-05
1311	ALL	353065.5	3792710	NonCancerChronicDerived_Inh	8.27E-05
1198	ALL	353140.5	3792610	NonCancerChronicDerived_Inh	8.26E-05

1396	ALL	353015.5	3792785	NonCancerChronicDerived_Inh	8.26E-05
1142	ALL	353190.5	3792560	NonCancerChronicDerived_Inh	8.22E-05
1226	ALL	353115.5	3792635	NonCancerChronicDerived_Inh	8.19E-05
1339	ALL	353040.5	3792735	NonCancerChronicDerived_Inh	8.16E-05
1085	ALL	353215.5	3792510	NonCancerChronicDerived_Inh	8.15E-05
1254	ALL	353090.5	3792660	NonCancerChronicDerived_Inh	8.14E-05
1282	ALL	353065.5	3792685	NonCancerChronicDerived_Inh	8.08E-05
1367	ALL	353015.5	3792760	NonCancerChronicDerived_Inh	8.07E-05
1141	ALL	353165.5	3792560	NonCancerChronicDerived_Inh	8.07E-05
1169	ALL	353140.5	3792585	NonCancerChronicDerived_Inh	8.04E-05
1113	ALL	353190.5	3792535	NonCancerChronicDerived_Inh	8.01E-05
1197	ALL	353115.5	3792610	NonCancerChronicDerived_Inh	7.99E-05
1310	ALL	353040.5	3792710	NonCancerChronicDerived_Inh	7.99E-05
1225	ALL	353090.5	3792635	NonCancerChronicDerived_Inh	7.92E-05
1338	ALL	353015.5	3792735	NonCancerChronicDerived_Inh	7.88E-05
1253	ALL	353065.5	3792660	NonCancerChronicDerived_Inh	7.88E-05
1112	ALL	353165.5	3792535	NonCancerChronicDerived_Inh	7.85E-05
1084	ALL	353190.5	3792510	NonCancerChronicDerived_Inh	7.84E-05
1140	ALL	353140.5	3792560	NonCancerChronicDerived_Inh	7.82E-05
1281	ALL	353040.5	3792685	NonCancerChronicDerived_Inh	7.82E-05
1168	ALL	353115.5	3792585	NonCancerChronicDerived_Inh	7.78E-05
1309	ALL	353015.5	3792710	NonCancerChronicDerived_Inh	7.73E-05
1196	ALL	353090.5	3792610	NonCancerChronicDerived_Inh	7.72E-05
1224	ALL	353065.5	3792635	NonCancerChronicDerived_Inh	7.68E-05
1083	ALL	353165.5	3792510	NonCancerChronicDerived_Inh	7.63E-05
1252	ALL	353040.5	3792660	NonCancerChronicDerived_Inh	7.62E-05
1111	ALL	353140.5	3792535	NonCancerChronicDerived_Inh	7.61E-05
1139	ALL	353115.5	3792560	NonCancerChronicDerived_Inh	7.59E-05
1280	ALL	353015.5	3792685	NonCancerChronicDerived_Inh	7.57E-05
1167	ALL	353090.5	3792585	NonCancerChronicDerived_Inh	7.52E-05
1195	ALL	353065.5	3792610	NonCancerChronicDerived_Inh	7.49E-05
1223	ALL	353040.5	3792635	NonCancerChronicDerived_Inh	7.44E-05
1082	ALL	353140.5	3792510	NonCancerChronicDerived_Inh	7.42E-05
1110	ALL	353115.5	3792535	NonCancerChronicDerived_Inh	7.39E-05
1251	ALL	353015.5	3792660	NonCancerChronicDerived_Inh	7.39E-05
1138	ALL	353090.5	3792560	NonCancerChronicDerived_Inh	7.33E-05
1166	ALL	353065.5	3792585	NonCancerChronicDerived_Inh	7.30E-05
1194	ALL	353040.5	3792610	NonCancerChronicDerived_Inh	7.27E-05
1222	ALL	353015.5	3792635	NonCancerChronicDerived_Inh	7.21E-05
1081	ALL	353115.5	3792510	NonCancerChronicDerived_Inh	7.20E-05
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1137	ALL	353065.5	3792560	NonCancerChronicDerived_Inh	7.14E-05
1165	ALL	353040.5	3792585	NonCancerChronicDerived_Inh	7.10E-05
1193	ALL	353015.5	3792610	NonCancerChronicDerived_Inh	7.06E-05
1080	ALL	353090.5	3792510	NonCancerChronicDerived_Inh	6.97E-05
1108	ALL	353065.5	3792535	NonCancerChronicDerived_Inh	6.97E-05
1136	ALL	353040.5	3792560	NonCancerChronicDerived_Inh	6.94E-05

1164	ALL	353015.5	3792585	NonCancerChronicDerived_Inh	6.90E-05
1079	ALL	353065.5	3792510	NonCancerChronicDerived_Inh	6.79E-05
1107	ALL	353040.5	3792535	NonCancerChronicDerived_Inh	6.78E-05
1135	ALL	353015.5	3792560	NonCancerChronicDerived_Inh	6.75E-05
1078	ALL	353040.5	3792510	NonCancerChronicDerived_Inh	6.61E-05
1106	ALL	353015.5	3792535	NonCancerChronicDerived_Inh	6.60E-05
1077	ALL	353015.5	3792510	NonCancerChronicDerived_Inh	6.44E-05

De Soto Storage Tank - Chronic Hazard Index (Mitigated)

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*HARP - HRACalc v19044 10/9/2019 1:51:52 PM - Cancer Risk - Input File: P:\300.Environmental\10649 L

REC	GRP	X	Y	RISK_SUM	SCENARIO
1	ALL	353773.1	3792493	2.35E-07	6.5YrCancerDerived_Inh
2	ALL	353798.1	3792493	2.33E-07	6.5YrCancerDerived_Inh
3	ALL	353823.1	3792493	2.29E-07	6.5YrCancerDerived_Inh
4	ALL	353848.1	3792493	2.22E-07	6.5YrCancerDerived_Inh
5	ALL	353873.1	3792493	2.15E-07	6.5YrCancerDerived_Inh
6	ALL	353898.1	3792493	2.08E-07	6.5YrCancerDerived_Inh
7	ALL	353923.1	3792493	2.02E-07	6.5YrCancerDerived_Inh
8	ALL	353948.1	3792493	1.96E-07	6.5YrCancerDerived_Inh
9	ALL	353973.1	3792493	1.91E-07	6.5YrCancerDerived_Inh
10	ALL	353998.1	3792493	1.86E-07	6.5YrCancerDerived_Inh
11	ALL	354023.1	3792493	1.81E-07	6.5YrCancerDerived_Inh
12	ALL	354048.1	3792493	1.77E-07	6.5YrCancerDerived_Inh
13	ALL	354073.1	3792493	1.72E-07	6.5YrCancerDerived_Inh
14	ALL	354098.1	3792493	1.68E-07	6.5YrCancerDerived_Inh
15	ALL	354123.1	3792493	1.64E-07	6.5YrCancerDerived_Inh
16	ALL	354148.1	3792493	1.59E-07	6.5YrCancerDerived_Inh
17	ALL	354173.1	3792493	1.56E-07	6.5YrCancerDerived_Inh
18	ALL	354198.1	3792493	1.52E-07	6.5YrCancerDerived_Inh
19	ALL	354223.1	3792493	1.49E-07	6.5YrCancerDerived_Inh
20	ALL	354248.1	3792493	1.45E-07	6.5YrCancerDerived_Inh
21	ALL	354273.1	3792493	1.41E-07	6.5YrCancerDerived_Inh
22	ALL	354298.1	3792493	1.37E-07	6.5YrCancerDerived_Inh
23	ALL	354323.1	3792493	1.33E-07	6.5YrCancerDerived_Inh
24	ALL	354348.1	3792493	1.29E-07	6.5YrCancerDerived_Inh
25	ALL	354373.1	3792493	1.26E-07	6.5YrCancerDerived_Inh
26	ALL	354398.1	3792493	1.23E-07	6.5YrCancerDerived_Inh
27	ALL	354423.1	3792493	1.20E-07	6.5YrCancerDerived_Inh
28	ALL	354448.1	3792493	1.17E-07	6.5YrCancerDerived_Inh
29	ALL	354473.1	3792493	1.14E-07	6.5YrCancerDerived_Inh
30	ALL	354498.1	3792493	1.11E-07	6.5YrCancerDerived_Inh
31	ALL	354523.1	3792493	1.08E-07	6.5YrCancerDerived_Inh
32	ALL	353773.1	3792518	2.64E-07	6.5YrCancerDerived_Inh
33	ALL	353798.1	3792518	2.60E-07	6.5YrCancerDerived_Inh
34	ALL	353823.1	3792518	2.51E-07	6.5YrCancerDerived_Inh
35	ALL	353848.1	3792518	2.41E-07	6.5YrCancerDerived_Inh
36	ALL	353873.1	3792518	2.32E-07	6.5YrCancerDerived_Inh
37	ALL	353898.1	3792518	2.23E-07	6.5YrCancerDerived_Inh
38	ALL	353923.1	3792518	2.15E-07	6.5YrCancerDerived_Inh
39	ALL	353948.1	3792518	2.08E-07	6.5YrCancerDerived_Inh
40	ALL	353973.1	3792518	2.02E-07	6.5YrCancerDerived_Inh
41	ALL	353998.1	3792518	1.96E-07	6.5YrCancerDerived_Inh
42	ALL	354023.1	3792518	1.90E-07	6.5YrCancerDerived_Inh
43	ALL	354048.1	3792518	1.85E-07	6.5YrCancerDerived_Inh
44	ALL	354073.1	3792518	1.80E-07	6.5YrCancerDerived_Inh
45	ALL	354098.1	3792518	1.76E-07	6.5YrCancerDerived_Inh

46	ALL	354123.1	3792518	1.71E-07	6.5YrCancerDerived_Inh
47	ALL	354148.1	3792518	1.67E-07	6.5YrCancerDerived_Inh
48	ALL	354173.1	3792518	1.63E-07	6.5YrCancerDerived_Inh
49	ALL	354198.1	3792518	1.58E-07	6.5YrCancerDerived_Inh
50	ALL	354223.1	3792518	1.54E-07	6.5YrCancerDerived_Inh
51	ALL	354248.1	3792518	1.50E-07	6.5YrCancerDerived_Inh
52	ALL	354273.1	3792518	1.46E-07	6.5YrCancerDerived_Inh
53	ALL	354298.1	3792518	1.42E-07	6.5YrCancerDerived_Inh
54	ALL	354323.1	3792518	1.38E-07	6.5YrCancerDerived_Inh
55	ALL	354348.1	3792518	1.34E-07	6.5YrCancerDerived_Inh
56	ALL	354373.1	3792518	1.30E-07	6.5YrCancerDerived_Inh
57	ALL	354398.1	3792518	1.27E-07	6.5YrCancerDerived_Inh
58	ALL	354423.1	3792518	1.23E-07	6.5YrCancerDerived_Inh
59	ALL	354448.1	3792518	1.20E-07	6.5YrCancerDerived_Inh
60	ALL	354473.1	3792518	1.17E-07	6.5YrCancerDerived_Inh
61	ALL	354498.1	3792518	1.14E-07	6.5YrCancerDerived_Inh
62	ALL	354523.1	3792518	1.11E-07	6.5YrCancerDerived_Inh
63	ALL	353773.1	3792543	3.04E-07	6.5YrCancerDerived_Inh
64	ALL	353798.1	3792543	2.96E-07	6.5YrCancerDerived_Inh
65	ALL	353823.1	3792543	2.81E-07	6.5YrCancerDerived_Inh
66	ALL	353848.1	3792543	2.66E-07	6.5YrCancerDerived_Inh
67	ALL	353873.1	3792543	2.52E-07	6.5YrCancerDerived_Inh
68	ALL	353898.1	3792543	2.40E-07	6.5YrCancerDerived_Inh
69	ALL	353923.1	3792543	2.30E-07	6.5YrCancerDerived_Inh
70	ALL	353948.1	3792543	2.21E-07	6.5YrCancerDerived_Inh
71	ALL	353973.1	3792543	2.14E-07	6.5YrCancerDerived_Inh
72	ALL	353998.1	3792543	2.07E-07	6.5YrCancerDerived_Inh
73	ALL	354023.1	3792543	2.01E-07	6.5YrCancerDerived_Inh
74	ALL	354048.1	3792543	1.95E-07	6.5YrCancerDerived_Inh
75	ALL	354073.1	3792543	1.89E-07	6.5YrCancerDerived_Inh
76	ALL	354098.1	3792543	1.84E-07	6.5YrCancerDerived_Inh
77	ALL	354123.1	3792543	1.79E-07	6.5YrCancerDerived_Inh
78	ALL	354148.1	3792543	1.74E-07	6.5YrCancerDerived_Inh
79	ALL	354173.1	3792543	1.70E-07	6.5YrCancerDerived_Inh
80	ALL	354198.1	3792543	1.65E-07	6.5YrCancerDerived_Inh
81	ALL	354223.1	3792543	1.60E-07	6.5YrCancerDerived_Inh
82	ALL	354248.1	3792543	1.56E-07	6.5YrCancerDerived_Inh
83	ALL	354273.1	3792543	1.51E-07	6.5YrCancerDerived_Inh
84	ALL	354298.1	3792543	1.47E-07	6.5YrCancerDerived_Inh
85	ALL	354323.1	3792543	1.43E-07	6.5YrCancerDerived_Inh
86	ALL	354348.1	3792543	1.39E-07	6.5YrCancerDerived_Inh
87	ALL	354373.1	3792543	1.35E-07	6.5YrCancerDerived_Inh
88	ALL	354398.1	3792543	1.31E-07	6.5YrCancerDerived_Inh
89	ALL	354423.1	3792543	1.27E-07	6.5YrCancerDerived_Inh
90	ALL	354448.1	3792543	1.24E-07	6.5YrCancerDerived_Inh
91	ALL	354473.1	3792543	1.20E-07	6.5YrCancerDerived_Inh
92	ALL	354498.1	3792543	1.17E-07	6.5YrCancerDerived_Inh

93	ALL	354523.1	3792543	1.14E-07	6.5YrCancerDerived_Inh
94	ALL	353773.1	3792568	3.64E-07	6.5YrCancerDerived_Inh
95	ALL	353798.1	3792568	3.43E-07	6.5YrCancerDerived_Inh
96	ALL	353823.1	3792568	3.18E-07	6.5YrCancerDerived_Inh
97	ALL	353848.1	3792568	2.95E-07	6.5YrCancerDerived_Inh
98	ALL	353873.1	3792568	2.75E-07	6.5YrCancerDerived_Inh
99	ALL	353898.1	3792568	2.59E-07	6.5YrCancerDerived_Inh
100	ALL	353923.1	3792568	2.46E-07	6.5YrCancerDerived_Inh
101	ALL	353948.1	3792568	2.36E-07	6.5YrCancerDerived_Inh
102	ALL	353973.1	3792568	2.27E-07	6.5YrCancerDerived_Inh
103	ALL	353998.1	3792568	2.19E-07	6.5YrCancerDerived_Inh
104	ALL	354023.1	3792568	2.12E-07	6.5YrCancerDerived_Inh
105	ALL	354048.1	3792568	2.05E-07	6.5YrCancerDerived_Inh
106	ALL	354073.1	3792568	1.99E-07	6.5YrCancerDerived_Inh
107	ALL	354098.1	3792568	1.94E-07	6.5YrCancerDerived_Inh
108	ALL	354123.1	3792568	1.88E-07	6.5YrCancerDerived_Inh
109	ALL	354148.1	3792568	1.82E-07	6.5YrCancerDerived_Inh
110	ALL	354173.1	3792568	1.77E-07	6.5YrCancerDerived_Inh
111	ALL	354198.1	3792568	1.72E-07	6.5YrCancerDerived_Inh
112	ALL	354223.1	3792568	1.67E-07	6.5YrCancerDerived_Inh
113	ALL	354248.1	3792568	1.62E-07	6.5YrCancerDerived_Inh
114	ALL	354273.1	3792568	1.58E-07	6.5YrCancerDerived_Inh
115	ALL	354298.1	3792568	1.53E-07	6.5YrCancerDerived_Inh
116	ALL	354323.1	3792568	1.49E-07	6.5YrCancerDerived_Inh
117	ALL	354348.1	3792568	1.45E-07	6.5YrCancerDerived_Inh
118	ALL	354373.1	3792568	1.41E-07	6.5YrCancerDerived_Inh
119	ALL	354398.1	3792568	1.36E-07	6.5YrCancerDerived_Inh
120	ALL	354423.1	3792568	1.32E-07	6.5YrCancerDerived_Inh
121	ALL	354448.1	3792568	1.29E-07	6.5YrCancerDerived_Inh
122	ALL	354473.1	3792568	1.24E-07	6.5YrCancerDerived_Inh
123	ALL	354498.1	3792568	1.20E-07	6.5YrCancerDerived_Inh
124	ALL	354523.1	3792568	1.17E-07	6.5YrCancerDerived_Inh
125	ALL	353773.1	3792593	4.67E-07	6.5YrCancerDerived_Inh
126	ALL	353798.1	3792593	4.14E-07	6.5YrCancerDerived_Inh
127	ALL	353823.1	3792593	3.67E-07	6.5YrCancerDerived_Inh
128	ALL	353848.1	3792593	3.32E-07	6.5YrCancerDerived_Inh
129	ALL	353873.1	3792593	3.04E-07	6.5YrCancerDerived_Inh
130	ALL	353898.1	3792593	2.83E-07	6.5YrCancerDerived_Inh
131	ALL	353923.1	3792593	2.66E-07	6.5YrCancerDerived_Inh
132	ALL	353948.1	3792593	2.53E-07	6.5YrCancerDerived_Inh
133	ALL	353973.1	3792593	2.42E-07	6.5YrCancerDerived_Inh
134	ALL	353998.1	3792593	2.32E-07	6.5YrCancerDerived_Inh
135	ALL	354023.1	3792593	2.24E-07	6.5YrCancerDerived_Inh
136	ALL	354048.1	3792593	2.17E-07	6.5YrCancerDerived_Inh
137	ALL	354073.1	3792593	2.10E-07	6.5YrCancerDerived_Inh
138	ALL	354098.1	3792593	2.03E-07	6.5YrCancerDerived_Inh
139	ALL	354123.1	3792593	1.97E-07	6.5YrCancerDerived_Inh

140	ALL	354148.1	3792593	1.91E-07	6.5YrCancerDerived_Inh
141	ALL	354173.1	3792593	1.85E-07	6.5YrCancerDerived_Inh
142	ALL	354198.1	3792593	1.80E-07	6.5YrCancerDerived_Inh
143	ALL	354223.1	3792593	1.74E-07	6.5YrCancerDerived_Inh
144	ALL	354248.1	3792593	1.69E-07	6.5YrCancerDerived_Inh
145	ALL	354273.1	3792593	1.64E-07	6.5YrCancerDerived_Inh
146	ALL	354298.1	3792593	1.60E-07	6.5YrCancerDerived_Inh
147	ALL	354323.1	3792593	1.55E-07	6.5YrCancerDerived_Inh
148	ALL	354348.1	3792593	1.50E-07	6.5YrCancerDerived_Inh
149	ALL	354373.1	3792593	1.46E-07	6.5YrCancerDerived_Inh
150	ALL	354398.1	3792593	1.41E-07	6.5YrCancerDerived_Inh
151	ALL	354423.1	3792593	1.37E-07	6.5YrCancerDerived_Inh
152	ALL	354448.1	3792593	1.32E-07	6.5YrCancerDerived_Inh
153	ALL	354473.1	3792593	1.28E-07	6.5YrCancerDerived_Inh
154	ALL	354498.1	3792593	1.24E-07	6.5YrCancerDerived_Inh
155	ALL	354523.1	3792593	1.20E-07	6.5YrCancerDerived_Inh
156	ALL	353773.1	3792618	6.70E-07	6.5YrCancerDerived_Inh
157	ALL	353798.1	3792618	5.21E-07	6.5YrCancerDerived_Inh
158	ALL	353823.1	3792618	4.31E-07	6.5YrCancerDerived_Inh
159	ALL	353848.1	3792618	3.74E-07	6.5YrCancerDerived_Inh
160	ALL	353873.1	3792618	3.35E-07	6.5YrCancerDerived_Inh
161	ALL	353898.1	3792618	3.07E-07	6.5YrCancerDerived_Inh
162	ALL	353923.1	3792618	2.86E-07	6.5YrCancerDerived_Inh
163	ALL	353948.1	3792618	2.69E-07	6.5YrCancerDerived_Inh
164	ALL	353973.1	3792618	2.56E-07	6.5YrCancerDerived_Inh
165	ALL	353998.1	3792618	2.45E-07	6.5YrCancerDerived_Inh
166	ALL	354023.1	3792618	2.36E-07	6.5YrCancerDerived_Inh
167	ALL	354048.1	3792618	2.27E-07	6.5YrCancerDerived_Inh
168	ALL	354073.1	3792618	2.20E-07	6.5YrCancerDerived_Inh
169	ALL	354098.1	3792618	2.13E-07	6.5YrCancerDerived_Inh
170	ALL	354123.1	3792618	2.06E-07	6.5YrCancerDerived_Inh
171	ALL	354148.1	3792618	1.99E-07	6.5YrCancerDerived_Inh
172	ALL	354173.1	3792618	1.93E-07	6.5YrCancerDerived_Inh
173	ALL	354198.1	3792618	1.87E-07	6.5YrCancerDerived_Inh
174	ALL	354223.1	3792618	1.81E-07	6.5YrCancerDerived_Inh
175	ALL	354248.1	3792618	1.75E-07	6.5YrCancerDerived_Inh
176	ALL	354273.1	3792618	1.70E-07	6.5YrCancerDerived_Inh
177	ALL	354298.1	3792618	1.65E-07	6.5YrCancerDerived_Inh
178	ALL	354323.1	3792618	1.60E-07	6.5YrCancerDerived_Inh
179	ALL	354348.1	3792618	1.56E-07	6.5YrCancerDerived_Inh
180	ALL	354373.1	3792618	1.51E-07	6.5YrCancerDerived_Inh
181	ALL	354398.1	3792618	1.46E-07	6.5YrCancerDerived_Inh
182	ALL	354423.1	3792618	1.41E-07	6.5YrCancerDerived_Inh
183	ALL	354448.1	3792618	1.36E-07	6.5YrCancerDerived_Inh
184	ALL	354473.1	3792618	1.32E-07	6.5YrCancerDerived_Inh
185	ALL	354498.1	3792618	1.28E-07	6.5YrCancerDerived_Inh
186	ALL	354523.1	3792618	1.24E-07	6.5YrCancerDerived_Inh

187	ALL	353773.1	3792643	1.02E-06	6.5YrCancerDerived_Inh
188	ALL	353798.1	3792643	6.58E-07	6.5YrCancerDerived_Inh
189	ALL	353823.1	3792643	5.02E-07	6.5YrCancerDerived_Inh
190	ALL	353848.1	3792643	4.19E-07	6.5YrCancerDerived_Inh
191	ALL	353873.1	3792643	3.67E-07	6.5YrCancerDerived_Inh
192	ALL	353898.1	3792643	3.32E-07	6.5YrCancerDerived_Inh
193	ALL	353923.1	3792643	3.06E-07	6.5YrCancerDerived_Inh
194	ALL	353948.1	3792643	2.87E-07	6.5YrCancerDerived_Inh
195	ALL	353973.1	3792643	2.71E-07	6.5YrCancerDerived_Inh
196	ALL	353998.1	3792643	2.59E-07	6.5YrCancerDerived_Inh
197	ALL	354023.1	3792643	2.48E-07	6.5YrCancerDerived_Inh
198	ALL	354048.1	3792643	2.39E-07	6.5YrCancerDerived_Inh
199	ALL	354073.1	3792643	2.30E-07	6.5YrCancerDerived_Inh
200	ALL	354098.1	3792643	2.22E-07	6.5YrCancerDerived_Inh
201	ALL	354123.1	3792643	2.15E-07	6.5YrCancerDerived_Inh
202	ALL	354148.1	3792643	2.08E-07	6.5YrCancerDerived_Inh
203	ALL	354173.1	3792643	2.02E-07	6.5YrCancerDerived_Inh
204	ALL	354198.1	3792643	1.95E-07	6.5YrCancerDerived_Inh
205	ALL	354223.1	3792643	1.89E-07	6.5YrCancerDerived_Inh
206	ALL	354248.1	3792643	1.84E-07	6.5YrCancerDerived_Inh
207	ALL	354273.1	3792643	1.79E-07	6.5YrCancerDerived_Inh
208	ALL	354298.1	3792643	1.73E-07	6.5YrCancerDerived_Inh
209	ALL	354323.1	3792643	1.68E-07	6.5YrCancerDerived_Inh
210	ALL	354348.1	3792643	1.63E-07	6.5YrCancerDerived_Inh
211	ALL	354373.1	3792643	1.57E-07	6.5YrCancerDerived_Inh
212	ALL	354398.1	3792643	1.51E-07	6.5YrCancerDerived_Inh
213	ALL	354423.1	3792643	1.46E-07	6.5YrCancerDerived_Inh
214	ALL	354448.1	3792643	1.41E-07	6.5YrCancerDerived_Inh
215	ALL	354473.1	3792643	1.36E-07	6.5YrCancerDerived_Inh
216	ALL	354498.1	3792643	1.32E-07	6.5YrCancerDerived_Inh
217	ALL	354523.1	3792643	1.28E-07	6.5YrCancerDerived_Inh
218	ALL	353773.1	3792668	1.25E-06	6.5YrCancerDerived_Inh
219	ALL	353798.1	3792668	7.72E-07	6.5YrCancerDerived_Inh
220	ALL	353823.1	3792668	5.67E-07	6.5YrCancerDerived_Inh
221	ALL	353848.1	3792668	4.63E-07	6.5YrCancerDerived_Inh
222	ALL	353873.1	3792668	4.00E-07	6.5YrCancerDerived_Inh
223	ALL	353898.1	3792668	3.57E-07	6.5YrCancerDerived_Inh
224	ALL	353923.1	3792668	3.27E-07	6.5YrCancerDerived_Inh
225	ALL	353948.1	3792668	3.04E-07	6.5YrCancerDerived_Inh
226	ALL	353973.1	3792668	2.87E-07	6.5YrCancerDerived_Inh
227	ALL	353998.1	3792668	2.73E-07	6.5YrCancerDerived_Inh
228	ALL	354023.1	3792668	2.62E-07	6.5YrCancerDerived_Inh
229	ALL	354048.1	3792668	2.50E-07	6.5YrCancerDerived_Inh
230	ALL	354073.1	3792668	2.41E-07	6.5YrCancerDerived_Inh
231	ALL	354098.1	3792668	2.33E-07	6.5YrCancerDerived_Inh
232	ALL	354123.1	3792668	2.26E-07	6.5YrCancerDerived_Inh
233	ALL	354148.1	3792668	2.18E-07	6.5YrCancerDerived_Inh

234	ALL	354173.1	3792668	2.13E-07	6.5YrCancerDerived_Inh
235	ALL	354198.1	3792668	2.06E-07	6.5YrCancerDerived_Inh
236	ALL	354223.1	3792668	2.00E-07	6.5YrCancerDerived_Inh
237	ALL	354248.1	3792668	1.95E-07	6.5YrCancerDerived_Inh
238	ALL	354273.1	3792668	1.90E-07	6.5YrCancerDerived_Inh
239	ALL	354298.1	3792668	1.82E-07	6.5YrCancerDerived_Inh
240	ALL	354323.1	3792668	1.77E-07	6.5YrCancerDerived_Inh
241	ALL	354348.1	3792668	1.71E-07	6.5YrCancerDerived_Inh
242	ALL	354373.1	3792668	1.62E-07	6.5YrCancerDerived_Inh
243	ALL	354398.1	3792668	1.56E-07	6.5YrCancerDerived_Inh
244	ALL	354423.1	3792668	1.52E-07	6.5YrCancerDerived_Inh
245	ALL	354448.1	3792668	1.47E-07	6.5YrCancerDerived_Inh
246	ALL	354473.1	3792668	1.41E-07	6.5YrCancerDerived_Inh
247	ALL	354498.1	3792668	1.36E-07	6.5YrCancerDerived_Inh
248	ALL	354523.1	3792668	1.32E-07	6.5YrCancerDerived_Inh
249	ALL	353773.1	3792693	1.37E-06	6.5YrCancerDerived_Inh
250	ALL	353798.1	3792693	8.47E-07	6.5YrCancerDerived_Inh
251	ALL	353823.1	3792693	6.18E-07	6.5YrCancerDerived_Inh
252	ALL	353848.1	3792693	5.00E-07	6.5YrCancerDerived_Inh
253	ALL	353873.1	3792693	4.28E-07	6.5YrCancerDerived_Inh
254	ALL	353898.1	3792693	3.81E-07	6.5YrCancerDerived_Inh
255	ALL	353923.1	3792693	3.46E-07	6.5YrCancerDerived_Inh
256	ALL	353948.1	3792693	3.21E-07	6.5YrCancerDerived_Inh
257	ALL	353973.1	3792693	3.03E-07	6.5YrCancerDerived_Inh
258	ALL	353998.1	3792693	2.87E-07	6.5YrCancerDerived_Inh
259	ALL	354023.1	3792693	2.74E-07	6.5YrCancerDerived_Inh
260	ALL	354048.1	3792693	2.63E-07	6.5YrCancerDerived_Inh
261	ALL	354073.1	3792693	2.53E-07	6.5YrCancerDerived_Inh
262	ALL	354098.1	3792693	2.45E-07	6.5YrCancerDerived_Inh
263	ALL	354123.1	3792693	2.37E-07	6.5YrCancerDerived_Inh
264	ALL	354148.1	3792693	2.30E-07	6.5YrCancerDerived_Inh
265	ALL	354173.1	3792693	2.23E-07	6.5YrCancerDerived_Inh
266	ALL	354198.1	3792693	2.17E-07	6.5YrCancerDerived_Inh
267	ALL	354223.1	3792693	2.11E-07	6.5YrCancerDerived_Inh
268	ALL	354248.1	3792693	2.06E-07	6.5YrCancerDerived_Inh
269	ALL	354273.1	3792693	2.01E-07	6.5YrCancerDerived_Inh
270	ALL	354298.1	3792693	1.92E-07	6.5YrCancerDerived_Inh
271	ALL	354323.1	3792693	1.87E-07	6.5YrCancerDerived_Inh
272	ALL	354348.1	3792693	1.79E-07	6.5YrCancerDerived_Inh
273	ALL	354373.1	3792693	1.69E-07	6.5YrCancerDerived_Inh
274	ALL	354398.1	3792693	1.61E-07	6.5YrCancerDerived_Inh
275	ALL	354423.1	3792693	1.57E-07	6.5YrCancerDerived_Inh
276	ALL	354448.1	3792693	1.52E-07	6.5YrCancerDerived_Inh
277	ALL	354473.1	3792693	1.46E-07	6.5YrCancerDerived_Inh
278	ALL	354498.1	3792693	1.40E-07	6.5YrCancerDerived_Inh
279	ALL	354523.1	3792693	1.36E-07	6.5YrCancerDerived_Inh
280	ALL	353773.1	3792718	1.44E-06	6.5YrCancerDerived_Inh

281	ALL	353798.1	3792718	8.97E-07	6.5YrCancerDerived_Inh
282	ALL	353823.1	3792718	6.55E-07	6.5YrCancerDerived_Inh
283	ALL	353848.1	3792718	5.28E-07	6.5YrCancerDerived_Inh
284	ALL	353873.1	3792718	4.51E-07	6.5YrCancerDerived_Inh
285	ALL	353898.1	3792718	4.00E-07	6.5YrCancerDerived_Inh
286	ALL	353923.1	3792718	3.64E-07	6.5YrCancerDerived_Inh
287	ALL	353948.1	3792718	3.37E-07	6.5YrCancerDerived_Inh
288	ALL	353973.1	3792718	3.17E-07	6.5YrCancerDerived_Inh
289	ALL	353998.1	3792718	3.00E-07	6.5YrCancerDerived_Inh
290	ALL	354023.1	3792718	2.86E-07	6.5YrCancerDerived_Inh
291	ALL	354048.1	3792718	2.74E-07	6.5YrCancerDerived_Inh
292	ALL	354073.1	3792718	2.64E-07	6.5YrCancerDerived_Inh
293	ALL	354098.1	3792718	2.57E-07	6.5YrCancerDerived_Inh
294	ALL	354123.1	3792718	2.48E-07	6.5YrCancerDerived_Inh
295	ALL	354148.1	3792718	2.40E-07	6.5YrCancerDerived_Inh
296	ALL	354173.1	3792718	2.32E-07	6.5YrCancerDerived_Inh
297	ALL	354198.1	3792718	2.26E-07	6.5YrCancerDerived_Inh
298	ALL	354223.1	3792718	2.20E-07	6.5YrCancerDerived_Inh
299	ALL	354248.1	3792718	2.18E-07	6.5YrCancerDerived_Inh
300	ALL	354273.1	3792718	2.10E-07	6.5YrCancerDerived_Inh
301	ALL	354298.1	3792718	2.02E-07	6.5YrCancerDerived_Inh
302	ALL	354323.1	3792718	1.95E-07	6.5YrCancerDerived_Inh
303	ALL	354348.1	3792718	1.87E-07	6.5YrCancerDerived_Inh
304	ALL	354373.1	3792718	1.77E-07	6.5YrCancerDerived_Inh
305	ALL	354398.1	3792718	1.67E-07	6.5YrCancerDerived_Inh
306	ALL	354423.1	3792718	1.62E-07	6.5YrCancerDerived_Inh
307	ALL	354448.1	3792718	1.56E-07	6.5YrCancerDerived_Inh
308	ALL	354473.1	3792718	1.50E-07	6.5YrCancerDerived_Inh
309	ALL	354498.1	3792718	1.45E-07	6.5YrCancerDerived_Inh
310	ALL	354523.1	3792718	1.41E-07	6.5YrCancerDerived_Inh
311	ALL	353773.1	3792743	1.48E-06	6.5YrCancerDerived_Inh
312	ALL	353798.1	3792743	9.35E-07	6.5YrCancerDerived_Inh
313	ALL	353823.1	3792743	6.86E-07	6.5YrCancerDerived_Inh
314	ALL	353848.1	3792743	5.54E-07	6.5YrCancerDerived_Inh
315	ALL	353873.1	3792743	4.74E-07	6.5YrCancerDerived_Inh
316	ALL	353898.1	3792743	4.20E-07	6.5YrCancerDerived_Inh
317	ALL	353923.1	3792743	3.82E-07	6.5YrCancerDerived_Inh
318	ALL	353948.1	3792743	3.54E-07	6.5YrCancerDerived_Inh
319	ALL	353973.1	3792743	3.32E-07	6.5YrCancerDerived_Inh
320	ALL	353998.1	3792743	3.15E-07	6.5YrCancerDerived_Inh
321	ALL	354023.1	3792743	3.00E-07	6.5YrCancerDerived_Inh
322	ALL	354048.1	3792743	2.87E-07	6.5YrCancerDerived_Inh
323	ALL	354073.1	3792743	2.77E-07	6.5YrCancerDerived_Inh
324	ALL	354098.1	3792743	2.68E-07	6.5YrCancerDerived_Inh
325	ALL	354123.1	3792743	2.60E-07	6.5YrCancerDerived_Inh
326	ALL	354148.1	3792743	2.50E-07	6.5YrCancerDerived_Inh
327	ALL	354173.1	3792743	2.42E-07	6.5YrCancerDerived_Inh

328	ALL	354198.1	3792743	2.34E-07	6.5YrCancerDerived_Inh
329	ALL	354223.1	3792743	2.28E-07	6.5YrCancerDerived_Inh
330	ALL	354248.1	3792743	2.23E-07	6.5YrCancerDerived_Inh
331	ALL	354273.1	3792743	2.17E-07	6.5YrCancerDerived_Inh
332	ALL	354298.1	3792743	2.10E-07	6.5YrCancerDerived_Inh
333	ALL	354323.1	3792743	2.02E-07	6.5YrCancerDerived_Inh
334	ALL	354348.1	3792743	1.91E-07	6.5YrCancerDerived_Inh
335	ALL	354373.1	3792743	1.81E-07	6.5YrCancerDerived_Inh
336	ALL	354398.1	3792743	1.73E-07	6.5YrCancerDerived_Inh
337	ALL	354423.1	3792743	1.67E-07	6.5YrCancerDerived_Inh
338	ALL	354448.1	3792743	1.61E-07	6.5YrCancerDerived_Inh
339	ALL	354473.1	3792743	1.55E-07	6.5YrCancerDerived_Inh
340	ALL	354498.1	3792743	1.50E-07	6.5YrCancerDerived_Inh
341	ALL	354523.1	3792743	1.45E-07	6.5YrCancerDerived_Inh
342	ALL	353773.1	3792768	1.52E-06	6.5YrCancerDerived_Inh
343	ALL	353798.1	3792768	9.68E-07	6.5YrCancerDerived_Inh
344	ALL	353823.1	3792768	7.16E-07	6.5YrCancerDerived_Inh
345	ALL	353848.1	3792768	5.81E-07	6.5YrCancerDerived_Inh
346	ALL	353873.1	3792768	4.98E-07	6.5YrCancerDerived_Inh
347	ALL	353898.1	3792768	4.42E-07	6.5YrCancerDerived_Inh
348	ALL	353923.1	3792768	4.03E-07	6.5YrCancerDerived_Inh
349	ALL	353948.1	3792768	3.73E-07	6.5YrCancerDerived_Inh
350	ALL	353973.1	3792768	3.50E-07	6.5YrCancerDerived_Inh
351	ALL	353998.1	3792768	3.32E-07	6.5YrCancerDerived_Inh
352	ALL	354023.1	3792768	3.15E-07	6.5YrCancerDerived_Inh
353	ALL	354048.1	3792768	3.02E-07	6.5YrCancerDerived_Inh
354	ALL	354073.1	3792768	2.90E-07	6.5YrCancerDerived_Inh
355	ALL	354098.1	3792768	2.80E-07	6.5YrCancerDerived_Inh
356	ALL	354123.1	3792768	2.72E-07	6.5YrCancerDerived_Inh
357	ALL	354148.1	3792768	2.61E-07	6.5YrCancerDerived_Inh
358	ALL	354173.1	3792768	2.53E-07	6.5YrCancerDerived_Inh
359	ALL	354198.1	3792768	2.44E-07	6.5YrCancerDerived_Inh
360	ALL	354223.1	3792768	2.36E-07	6.5YrCancerDerived_Inh
361	ALL	354248.1	3792768	2.28E-07	6.5YrCancerDerived_Inh
362	ALL	354273.1	3792768	2.21E-07	6.5YrCancerDerived_Inh
363	ALL	354298.1	3792768	2.13E-07	6.5YrCancerDerived_Inh
364	ALL	354323.1	3792768	2.05E-07	6.5YrCancerDerived_Inh
365	ALL	354348.1	3792768	1.96E-07	6.5YrCancerDerived_Inh
366	ALL	354373.1	3792768	1.86E-07	6.5YrCancerDerived_Inh
367	ALL	354398.1	3792768	1.79E-07	6.5YrCancerDerived_Inh
368	ALL	354423.1	3792768	1.73E-07	6.5YrCancerDerived_Inh
369	ALL	354448.1	3792768	1.67E-07	6.5YrCancerDerived_Inh
370	ALL	354473.1	3792768	1.60E-07	6.5YrCancerDerived_Inh
371	ALL	354498.1	3792768	1.54E-07	6.5YrCancerDerived_Inh
372	ALL	354523.1	3792768	1.50E-07	6.5YrCancerDerived_Inh
373	ALL	353773.1	3792793	1.56E-06	6.5YrCancerDerived_Inh
374	ALL	353798.1	3792793	9.98E-07	6.5YrCancerDerived_Inh

375	ALL	353823.1	3792793	7.42E-07	6.5YrCancerDerived_Inh
376	ALL	353848.1	3792793	6.03E-07	6.5YrCancerDerived_Inh
377	ALL	353873.1	3792793	5.16E-07	6.5YrCancerDerived_Inh
378	ALL	353898.1	3792793	4.57E-07	6.5YrCancerDerived_Inh
379	ALL	353923.1	3792793	4.17E-07	6.5YrCancerDerived_Inh
380	ALL	353948.1	3792793	3.88E-07	6.5YrCancerDerived_Inh
381	ALL	353973.1	3792793	3.65E-07	6.5YrCancerDerived_Inh
382	ALL	353998.1	3792793	3.47E-07	6.5YrCancerDerived_Inh
383	ALL	354023.1	3792793	3.31E-07	6.5YrCancerDerived_Inh
384	ALL	354048.1	3792793	3.17E-07	6.5YrCancerDerived_Inh
385	ALL	354073.1	3792793	3.04E-07	6.5YrCancerDerived_Inh
386	ALL	354098.1	3792793	2.93E-07	6.5YrCancerDerived_Inh
387	ALL	354123.1	3792793	2.83E-07	6.5YrCancerDerived_Inh
388	ALL	354148.1	3792793	2.72E-07	6.5YrCancerDerived_Inh
389	ALL	354173.1	3792793	2.63E-07	6.5YrCancerDerived_Inh
390	ALL	354198.1	3792793	2.54E-07	6.5YrCancerDerived_Inh
391	ALL	354223.1	3792793	2.44E-07	6.5YrCancerDerived_Inh
392	ALL	354248.1	3792793	2.35E-07	6.5YrCancerDerived_Inh
393	ALL	354273.1	3792793	2.26E-07	6.5YrCancerDerived_Inh
394	ALL	354298.1	3792793	2.18E-07	6.5YrCancerDerived_Inh
395	ALL	354323.1	3792793	2.10E-07	6.5YrCancerDerived_Inh
396	ALL	354348.1	3792793	2.02E-07	6.5YrCancerDerived_Inh
397	ALL	354373.1	3792793	1.93E-07	6.5YrCancerDerived_Inh
398	ALL	354398.1	3792793	1.85E-07	6.5YrCancerDerived_Inh
399	ALL	354423.1	3792793	1.79E-07	6.5YrCancerDerived_Inh
400	ALL	354448.1	3792793	1.72E-07	6.5YrCancerDerived_Inh
401	ALL	354473.1	3792793	1.66E-07	6.5YrCancerDerived_Inh
402	ALL	354498.1	3792793	1.60E-07	6.5YrCancerDerived_Inh
403	ALL	354523.1	3792793	1.55E-07	6.5YrCancerDerived_Inh
404	ALL	353773.1	3792818	1.59E-06	6.5YrCancerDerived_Inh
405	ALL	353798.1	3792818	1.02E-06	6.5YrCancerDerived_Inh
406	ALL	353823.1	3792818	7.63E-07	6.5YrCancerDerived_Inh
407	ALL	353848.1	3792818	6.24E-07	6.5YrCancerDerived_Inh
408	ALL	353873.1	3792818	5.38E-07	6.5YrCancerDerived_Inh
409	ALL	353898.1	3792818	4.79E-07	6.5YrCancerDerived_Inh
410	ALL	353923.1	3792818	4.37E-07	6.5YrCancerDerived_Inh
411	ALL	353948.1	3792818	4.05E-07	6.5YrCancerDerived_Inh
412	ALL	353973.1	3792818	3.80E-07	6.5YrCancerDerived_Inh
413	ALL	353998.1	3792818	3.61E-07	6.5YrCancerDerived_Inh
414	ALL	354023.1	3792818	3.45E-07	6.5YrCancerDerived_Inh
415	ALL	354048.1	3792818	3.31E-07	6.5YrCancerDerived_Inh
416	ALL	354073.1	3792818	3.18E-07	6.5YrCancerDerived_Inh
417	ALL	354098.1	3792818	3.06E-07	6.5YrCancerDerived_Inh
418	ALL	354123.1	3792818	2.95E-07	6.5YrCancerDerived_Inh
419	ALL	354148.1	3792818	2.84E-07	6.5YrCancerDerived_Inh
420	ALL	354173.1	3792818	2.73E-07	6.5YrCancerDerived_Inh
421	ALL	354198.1	3792818	2.63E-07	6.5YrCancerDerived_Inh

422	ALL	354223.1	3792818	2.53E-07	6.5YrCancerDerived_Inh
423	ALL	354248.1	3792818	2.43E-07	6.5YrCancerDerived_Inh
424	ALL	354273.1	3792818	2.34E-07	6.5YrCancerDerived_Inh
425	ALL	354298.1	3792818	2.25E-07	6.5YrCancerDerived_Inh
426	ALL	354323.1	3792818	2.17E-07	6.5YrCancerDerived_Inh
427	ALL	354348.1	3792818	2.08E-07	6.5YrCancerDerived_Inh
428	ALL	354373.1	3792818	2.00E-07	6.5YrCancerDerived_Inh
429	ALL	354398.1	3792818	1.92E-07	6.5YrCancerDerived_Inh
430	ALL	354423.1	3792818	1.85E-07	6.5YrCancerDerived_Inh
431	ALL	354448.1	3792818	1.78E-07	6.5YrCancerDerived_Inh
432	ALL	354473.1	3792818	1.71E-07	6.5YrCancerDerived_Inh
433	ALL	354498.1	3792818	1.65E-07	6.5YrCancerDerived_Inh
434	ALL	354523.1	3792818	1.59E-07	6.5YrCancerDerived_Inh
435	ALL	353773.1	3792843	1.62E-06	6.5YrCancerDerived_Inh
436	ALL	353798.1	3792843	1.05E-06	6.5YrCancerDerived_Inh
437	ALL	353823.1	3792843	7.83E-07	6.5YrCancerDerived_Inh
438	ALL	353848.1	3792843	6.42E-07	6.5YrCancerDerived_Inh
439	ALL	353873.1	3792843	5.54E-07	6.5YrCancerDerived_Inh
440	ALL	353898.1	3792843	4.95E-07	6.5YrCancerDerived_Inh
441	ALL	353923.1	3792843	4.52E-07	6.5YrCancerDerived_Inh
442	ALL	353948.1	3792843	4.20E-07	6.5YrCancerDerived_Inh
443	ALL	353973.1	3792843	3.96E-07	6.5YrCancerDerived_Inh
444	ALL	353998.1	3792843	3.76E-07	6.5YrCancerDerived_Inh
445	ALL	354023.1	3792843	3.60E-07	6.5YrCancerDerived_Inh
446	ALL	354048.1	3792843	3.45E-07	6.5YrCancerDerived_Inh
447	ALL	354073.1	3792843	3.32E-07	6.5YrCancerDerived_Inh
448	ALL	354098.1	3792843	3.20E-07	6.5YrCancerDerived_Inh
449	ALL	354123.1	3792843	3.08E-07	6.5YrCancerDerived_Inh
450	ALL	354148.1	3792843	2.96E-07	6.5YrCancerDerived_Inh
451	ALL	354173.1	3792843	2.85E-07	6.5YrCancerDerived_Inh
452	ALL	354198.1	3792843	2.74E-07	6.5YrCancerDerived_Inh
453	ALL	354223.1	3792843	2.63E-07	6.5YrCancerDerived_Inh
454	ALL	354248.1	3792843	2.53E-07	6.5YrCancerDerived_Inh
455	ALL	354273.1	3792843	2.43E-07	6.5YrCancerDerived_Inh
456	ALL	354298.1	3792843	2.34E-07	6.5YrCancerDerived_Inh
457	ALL	354323.1	3792843	2.25E-07	6.5YrCancerDerived_Inh
458	ALL	354348.1	3792843	2.16E-07	6.5YrCancerDerived_Inh
459	ALL	354373.1	3792843	2.07E-07	6.5YrCancerDerived_Inh
460	ALL	354398.1	3792843	1.98E-07	6.5YrCancerDerived_Inh
461	ALL	354423.1	3792843	1.92E-07	6.5YrCancerDerived_Inh
462	ALL	354448.1	3792843	1.84E-07	6.5YrCancerDerived_Inh
463	ALL	354473.1	3792843	1.77E-07	6.5YrCancerDerived_Inh
464	ALL	354498.1	3792843	1.70E-07	6.5YrCancerDerived_Inh
465	ALL	354523.1	3792843	1.64E-07	6.5YrCancerDerived_Inh
466	ALL	353773.1	3792868	1.64E-06	6.5YrCancerDerived_Inh
467	ALL	353798.1	3792868	1.06E-06	6.5YrCancerDerived_Inh
468	ALL	353823.1	3792868	8.02E-07	6.5YrCancerDerived_Inh

469	ALL	353848.1	3792868	6.55E-07	6.5YrCancerDerived_Inh
470	ALL	353873.1	3792868	5.66E-07	6.5YrCancerDerived_Inh
471	ALL	353898.1	3792868	5.08E-07	6.5YrCancerDerived_Inh
472	ALL	353923.1	3792868	4.67E-07	6.5YrCancerDerived_Inh
473	ALL	353948.1	3792868	4.37E-07	6.5YrCancerDerived_Inh
474	ALL	353973.1	3792868	4.13E-07	6.5YrCancerDerived_Inh
475	ALL	353998.1	3792868	3.93E-07	6.5YrCancerDerived_Inh
476	ALL	354023.1	3792868	3.77E-07	6.5YrCancerDerived_Inh
477	ALL	354048.1	3792868	3.63E-07	6.5YrCancerDerived_Inh
478	ALL	354073.1	3792868	3.49E-07	6.5YrCancerDerived_Inh
479	ALL	354098.1	3792868	3.36E-07	6.5YrCancerDerived_Inh
480	ALL	354123.1	3792868	3.23E-07	6.5YrCancerDerived_Inh
481	ALL	354148.1	3792868	3.10E-07	6.5YrCancerDerived_Inh
482	ALL	354173.1	3792868	3.00E-07	6.5YrCancerDerived_Inh
483	ALL	354198.1	3792868	2.88E-07	6.5YrCancerDerived_Inh
484	ALL	354223.1	3792868	2.77E-07	6.5YrCancerDerived_Inh
485	ALL	354248.1	3792868	2.66E-07	6.5YrCancerDerived_Inh
486	ALL	354273.1	3792868	2.56E-07	6.5YrCancerDerived_Inh
487	ALL	354298.1	3792868	2.46E-07	6.5YrCancerDerived_Inh
488	ALL	354323.1	3792868	2.36E-07	6.5YrCancerDerived_Inh
489	ALL	354348.1	3792868	2.27E-07	6.5YrCancerDerived_Inh
490	ALL	354373.1	3792868	2.15E-07	6.5YrCancerDerived_Inh
491	ALL	354398.1	3792868	2.05E-07	6.5YrCancerDerived_Inh
492	ALL	354423.1	3792868	1.98E-07	6.5YrCancerDerived_Inh
493	ALL	354448.1	3792868	1.90E-07	6.5YrCancerDerived_Inh
494	ALL	354473.1	3792868	1.83E-07	6.5YrCancerDerived_Inh
495	ALL	354498.1	3792868	1.76E-07	6.5YrCancerDerived_Inh
496	ALL	354523.1	3792868	1.70E-07	6.5YrCancerDerived_Inh
497	ALL	353773.1	3792893	1.67E-06	6.5YrCancerDerived_Inh
498	ALL	353798.1	3792893	1.08E-06	6.5YrCancerDerived_Inh
499	ALL	353823.1	3792893	8.20E-07	6.5YrCancerDerived_Inh
500	ALL	353848.1	3792893	6.74E-07	6.5YrCancerDerived_Inh
501	ALL	353873.1	3792893	5.84E-07	6.5YrCancerDerived_Inh
502	ALL	353898.1	3792893	5.25E-07	6.5YrCancerDerived_Inh
503	ALL	353923.1	3792893	4.84E-07	6.5YrCancerDerived_Inh
504	ALL	353948.1	3792893	4.54E-07	6.5YrCancerDerived_Inh
505	ALL	353973.1	3792893	4.31E-07	6.5YrCancerDerived_Inh
506	ALL	353998.1	3792893	4.11E-07	6.5YrCancerDerived_Inh
507	ALL	354023.1	3792893	3.94E-07	6.5YrCancerDerived_Inh
508	ALL	354048.1	3792893	3.80E-07	6.5YrCancerDerived_Inh
509	ALL	354073.1	3792893	3.66E-07	6.5YrCancerDerived_Inh
510	ALL	354098.1	3792893	3.52E-07	6.5YrCancerDerived_Inh
511	ALL	354123.1	3792893	3.38E-07	6.5YrCancerDerived_Inh
512	ALL	354148.1	3792893	3.24E-07	6.5YrCancerDerived_Inh
513	ALL	354173.1	3792893	3.14E-07	6.5YrCancerDerived_Inh
514	ALL	354198.1	3792893	3.01E-07	6.5YrCancerDerived_Inh
515	ALL	354223.1	3792893	2.89E-07	6.5YrCancerDerived_Inh

516	ALL	354248.1	3792893	2.77E-07	6.5YrCancerDerived_Inh
517	ALL	354273.1	3792893	2.66E-07	6.5YrCancerDerived_Inh
518	ALL	354298.1	3792893	2.56E-07	6.5YrCancerDerived_Inh
519	ALL	354323.1	3792893	2.45E-07	6.5YrCancerDerived_Inh
520	ALL	354348.1	3792893	2.35E-07	6.5YrCancerDerived_Inh
521	ALL	354373.1	3792893	2.23E-07	6.5YrCancerDerived_Inh
522	ALL	354398.1	3792893	2.13E-07	6.5YrCancerDerived_Inh
523	ALL	354423.1	3792893	2.06E-07	6.5YrCancerDerived_Inh
524	ALL	354448.1	3792893	1.97E-07	6.5YrCancerDerived_Inh
525	ALL	354473.1	3792893	1.89E-07	6.5YrCancerDerived_Inh
526	ALL	354498.1	3792893	1.82E-07	6.5YrCancerDerived_Inh
527	ALL	354523.1	3792893	1.76E-07	6.5YrCancerDerived_Inh
528	ALL	353773.1	3792918	1.71E-06	6.5YrCancerDerived_Inh
529	ALL	353798.1	3792918	1.11E-06	6.5YrCancerDerived_Inh
530	ALL	353823.1	3792918	8.42E-07	6.5YrCancerDerived_Inh
531	ALL	353848.1	3792918	6.97E-07	6.5YrCancerDerived_Inh
532	ALL	353873.1	3792918	6.06E-07	6.5YrCancerDerived_Inh
533	ALL	353898.1	3792918	5.46E-07	6.5YrCancerDerived_Inh
534	ALL	353923.1	3792918	5.05E-07	6.5YrCancerDerived_Inh
535	ALL	353948.1	3792918	4.74E-07	6.5YrCancerDerived_Inh
536	ALL	353973.1	3792918	4.50E-07	6.5YrCancerDerived_Inh
537	ALL	353998.1	3792918	4.30E-07	6.5YrCancerDerived_Inh
538	ALL	354023.1	3792918	4.13E-07	6.5YrCancerDerived_Inh
539	ALL	354048.1	3792918	3.97E-07	6.5YrCancerDerived_Inh
540	ALL	354073.1	3792918	3.83E-07	6.5YrCancerDerived_Inh
541	ALL	354098.1	3792918	3.69E-07	6.5YrCancerDerived_Inh
542	ALL	354123.1	3792918	3.55E-07	6.5YrCancerDerived_Inh
543	ALL	354148.1	3792918	3.39E-07	6.5YrCancerDerived_Inh
544	ALL	354173.1	3792918	3.28E-07	6.5YrCancerDerived_Inh
545	ALL	354198.1	3792918	3.14E-07	6.5YrCancerDerived_Inh
546	ALL	354223.1	3792918	3.01E-07	6.5YrCancerDerived_Inh
547	ALL	354248.1	3792918	2.88E-07	6.5YrCancerDerived_Inh
548	ALL	354273.1	3792918	2.76E-07	6.5YrCancerDerived_Inh
549	ALL	354298.1	3792918	2.65E-07	6.5YrCancerDerived_Inh
550	ALL	354323.1	3792918	2.53E-07	6.5YrCancerDerived_Inh
551	ALL	354348.1	3792918	2.44E-07	6.5YrCancerDerived_Inh
552	ALL	354373.1	3792918	2.32E-07	6.5YrCancerDerived_Inh
553	ALL	354398.1	3792918	2.22E-07	6.5YrCancerDerived_Inh
554	ALL	354423.1	3792918	2.14E-07	6.5YrCancerDerived_Inh
555	ALL	354448.1	3792918	2.05E-07	6.5YrCancerDerived_Inh
556	ALL	354473.1	3792918	1.97E-07	6.5YrCancerDerived_Inh
557	ALL	354498.1	3792918	1.88E-07	6.5YrCancerDerived_Inh
558	ALL	354523.1	3792918	1.82E-07	6.5YrCancerDerived_Inh
559	ALL	353773.1	3792943	1.76E-06	6.5YrCancerDerived_Inh
560	ALL	353798.1	3792943	1.14E-06	6.5YrCancerDerived_Inh
561	ALL	353823.1	3792943	8.66E-07	6.5YrCancerDerived_Inh
562	ALL	353848.1	3792943	7.19E-07	6.5YrCancerDerived_Inh

563	ALL	353873.1	3792943	6.29E-07	6.5YrCancerDerived_Inh
564	ALL	353898.1	3792943	5.69E-07	6.5YrCancerDerived_Inh
565	ALL	353923.1	3792943	5.27E-07	6.5YrCancerDerived_Inh
566	ALL	353948.1	3792943	4.96E-07	6.5YrCancerDerived_Inh
567	ALL	353973.1	3792943	4.71E-07	6.5YrCancerDerived_Inh
568	ALL	353998.1	3792943	4.51E-07	6.5YrCancerDerived_Inh
569	ALL	354023.1	3792943	4.33E-07	6.5YrCancerDerived_Inh
570	ALL	354048.1	3792943	4.17E-07	6.5YrCancerDerived_Inh
571	ALL	354073.1	3792943	4.02E-07	6.5YrCancerDerived_Inh
572	ALL	354098.1	3792943	3.87E-07	6.5YrCancerDerived_Inh
573	ALL	354123.1	3792943	3.75E-07	6.5YrCancerDerived_Inh
574	ALL	354148.1	3792943	3.57E-07	6.5YrCancerDerived_Inh
575	ALL	354173.1	3792943	3.42E-07	6.5YrCancerDerived_Inh
576	ALL	354198.1	3792943	3.27E-07	6.5YrCancerDerived_Inh
577	ALL	354223.1	3792943	3.13E-07	6.5YrCancerDerived_Inh
578	ALL	354248.1	3792943	3.00E-07	6.5YrCancerDerived_Inh
579	ALL	354273.1	3792943	2.87E-07	6.5YrCancerDerived_Inh
580	ALL	354298.1	3792943	2.75E-07	6.5YrCancerDerived_Inh
581	ALL	354323.1	3792943	2.63E-07	6.5YrCancerDerived_Inh
582	ALL	354348.1	3792943	2.53E-07	6.5YrCancerDerived_Inh
583	ALL	354373.1	3792943	2.42E-07	6.5YrCancerDerived_Inh
584	ALL	354398.1	3792943	2.31E-07	6.5YrCancerDerived_Inh
585	ALL	354423.1	3792943	2.23E-07	6.5YrCancerDerived_Inh
586	ALL	354448.1	3792943	2.13E-07	6.5YrCancerDerived_Inh
587	ALL	354473.1	3792943	2.04E-07	6.5YrCancerDerived_Inh
588	ALL	354498.1	3792943	1.95E-07	6.5YrCancerDerived_Inh
589	ALL	354523.1	3792943	1.88E-07	6.5YrCancerDerived_Inh
590	ALL	353773.1	3792968	1.79E-06	6.5YrCancerDerived_Inh
591	ALL	353798.1	3792968	1.17E-06	6.5YrCancerDerived_Inh
592	ALL	353823.1	3792968	8.91E-07	6.5YrCancerDerived_Inh
593	ALL	353848.1	3792968	7.43E-07	6.5YrCancerDerived_Inh
594	ALL	353873.1	3792968	6.52E-07	6.5YrCancerDerived_Inh
595	ALL	353898.1	3792968	5.92E-07	6.5YrCancerDerived_Inh
596	ALL	353923.1	3792968	5.51E-07	6.5YrCancerDerived_Inh
597	ALL	353948.1	3792968	5.19E-07	6.5YrCancerDerived_Inh
598	ALL	353973.1	3792968	4.95E-07	6.5YrCancerDerived_Inh
599	ALL	353998.1	3792968	4.74E-07	6.5YrCancerDerived_Inh
600	ALL	354023.1	3792968	4.56E-07	6.5YrCancerDerived_Inh
601	ALL	354048.1	3792968	4.39E-07	6.5YrCancerDerived_Inh
602	ALL	354073.1	3792968	4.23E-07	6.5YrCancerDerived_Inh
603	ALL	354098.1	3792968	4.07E-07	6.5YrCancerDerived_Inh
604	ALL	354123.1	3792968	3.95E-07	6.5YrCancerDerived_Inh
605	ALL	354148.1	3792968	3.77E-07	6.5YrCancerDerived_Inh
606	ALL	354173.1	3792968	3.59E-07	6.5YrCancerDerived_Inh
607	ALL	354198.1	3792968	3.44E-07	6.5YrCancerDerived_Inh
608	ALL	354223.1	3792968	3.28E-07	6.5YrCancerDerived_Inh
609	ALL	354248.1	3792968	3.14E-07	6.5YrCancerDerived_Inh

610	ALL	354273.1	3792968	3.00E-07	6.5YrCancerDerived_Inh
611	ALL	354298.1	3792968	2.87E-07	6.5YrCancerDerived_Inh
612	ALL	354323.1	3792968	2.75E-07	6.5YrCancerDerived_Inh
613	ALL	354348.1	3792968	2.63E-07	6.5YrCancerDerived_Inh
614	ALL	354373.1	3792968	2.53E-07	6.5YrCancerDerived_Inh
615	ALL	354398.1	3792968	2.40E-07	6.5YrCancerDerived_Inh
616	ALL	354423.1	3792968	2.31E-07	6.5YrCancerDerived_Inh
617	ALL	354448.1	3792968	2.21E-07	6.5YrCancerDerived_Inh
618	ALL	354473.1	3792968	2.12E-07	6.5YrCancerDerived_Inh
619	ALL	354498.1	3792968	2.03E-07	6.5YrCancerDerived_Inh
620	ALL	354523.1	3792968	1.95E-07	6.5YrCancerDerived_Inh
621	ALL	353773.1	3792993	1.83E-06	6.5YrCancerDerived_Inh
622	ALL	353798.1	3792993	1.20E-06	6.5YrCancerDerived_Inh
623	ALL	353823.1	3792993	9.17E-07	6.5YrCancerDerived_Inh
624	ALL	353848.1	3792993	7.64E-07	6.5YrCancerDerived_Inh
625	ALL	353873.1	3792993	6.73E-07	6.5YrCancerDerived_Inh
626	ALL	353898.1	3792993	6.15E-07	6.5YrCancerDerived_Inh
627	ALL	353923.1	3792993	5.74E-07	6.5YrCancerDerived_Inh
628	ALL	353948.1	3792993	5.44E-07	6.5YrCancerDerived_Inh
629	ALL	353973.1	3792993	5.20E-07	6.5YrCancerDerived_Inh
630	ALL	353998.1	3792993	5.01E-07	6.5YrCancerDerived_Inh
631	ALL	354023.1	3792993	4.84E-07	6.5YrCancerDerived_Inh
632	ALL	354048.1	3792993	4.68E-07	6.5YrCancerDerived_Inh
633	ALL	354073.1	3792993	4.52E-07	6.5YrCancerDerived_Inh
634	ALL	354098.1	3792993	4.35E-07	6.5YrCancerDerived_Inh
635	ALL	354123.1	3792993	4.18E-07	6.5YrCancerDerived_Inh
636	ALL	354148.1	3792993	3.99E-07	6.5YrCancerDerived_Inh
637	ALL	354173.1	3792993	3.84E-07	6.5YrCancerDerived_Inh
638	ALL	354198.1	3792993	3.66E-07	6.5YrCancerDerived_Inh
639	ALL	354223.1	3792993	3.50E-07	6.5YrCancerDerived_Inh
640	ALL	354248.1	3792993	3.34E-07	6.5YrCancerDerived_Inh
641	ALL	354273.1	3792993	3.19E-07	6.5YrCancerDerived_Inh
642	ALL	354298.1	3792993	3.04E-07	6.5YrCancerDerived_Inh
643	ALL	354323.1	3792993	2.90E-07	6.5YrCancerDerived_Inh
644	ALL	354348.1	3792993	2.77E-07	6.5YrCancerDerived_Inh
645	ALL	354373.1	3792993	2.63E-07	6.5YrCancerDerived_Inh
646	ALL	354398.1	3792993	2.50E-07	6.5YrCancerDerived_Inh
647	ALL	354423.1	3792993	2.41E-07	6.5YrCancerDerived_Inh
648	ALL	354448.1	3792993	2.30E-07	6.5YrCancerDerived_Inh
649	ALL	354473.1	3792993	2.20E-07	6.5YrCancerDerived_Inh
650	ALL	354498.1	3792993	2.10E-07	6.5YrCancerDerived_Inh
651	ALL	354523.1	3792993	2.02E-07	6.5YrCancerDerived_Inh
652	ALL	353773.1	3793018	1.87E-06	6.5YrCancerDerived_Inh
653	ALL	353798.1	3793018	1.23E-06	6.5YrCancerDerived_Inh
654	ALL	353823.1	3793018	9.42E-07	6.5YrCancerDerived_Inh
655	ALL	353848.1	3793018	7.90E-07	6.5YrCancerDerived_Inh
656	ALL	353873.1	3793018	7.00E-07	6.5YrCancerDerived_Inh

657	ALL	353898.1	3793018	6.42E-07	6.5YrCancerDerived_Inh
658	ALL	353923.1	3793018	6.02E-07	6.5YrCancerDerived_Inh
659	ALL	353948.1	3793018	5.72E-07	6.5YrCancerDerived_Inh
660	ALL	353973.1	3793018	5.49E-07	6.5YrCancerDerived_Inh
661	ALL	353998.1	3793018	5.30E-07	6.5YrCancerDerived_Inh
662	ALL	354023.1	3793018	5.13E-07	6.5YrCancerDerived_Inh
663	ALL	354048.1	3793018	4.95E-07	6.5YrCancerDerived_Inh
664	ALL	354073.1	3793018	4.78E-07	6.5YrCancerDerived_Inh
665	ALL	354098.1	3793018	4.60E-07	6.5YrCancerDerived_Inh
666	ALL	354123.1	3793018	4.42E-07	6.5YrCancerDerived_Inh
667	ALL	354148.1	3793018	4.22E-07	6.5YrCancerDerived_Inh
668	ALL	354173.1	3793018	4.04E-07	6.5YrCancerDerived_Inh
669	ALL	354198.1	3793018	3.85E-07	6.5YrCancerDerived_Inh
670	ALL	354223.1	3793018	3.67E-07	6.5YrCancerDerived_Inh
671	ALL	354248.1	3793018	3.49E-07	6.5YrCancerDerived_Inh
672	ALL	354273.1	3793018	3.33E-07	6.5YrCancerDerived_Inh
673	ALL	354298.1	3793018	3.17E-07	6.5YrCancerDerived_Inh
674	ALL	354323.1	3793018	3.02E-07	6.5YrCancerDerived_Inh
675	ALL	354348.1	3793018	2.88E-07	6.5YrCancerDerived_Inh
676	ALL	354373.1	3793018	2.74E-07	6.5YrCancerDerived_Inh
677	ALL	354398.1	3793018	2.61E-07	6.5YrCancerDerived_Inh
678	ALL	354423.1	3793018	2.49E-07	6.5YrCancerDerived_Inh
679	ALL	354448.1	3793018	2.38E-07	6.5YrCancerDerived_Inh
680	ALL	354473.1	3793018	2.27E-07	6.5YrCancerDerived_Inh
681	ALL	354498.1	3793018	2.17E-07	6.5YrCancerDerived_Inh
682	ALL	354523.1	3793018	2.08E-07	6.5YrCancerDerived_Inh
683	ALL	353773.1	3793043	1.90E-06	6.5YrCancerDerived_Inh
684	ALL	353798.1	3793043	1.26E-06	6.5YrCancerDerived_Inh
685	ALL	353823.1	3793043	9.69E-07	6.5YrCancerDerived_Inh
686	ALL	353848.1	3793043	8.20E-07	6.5YrCancerDerived_Inh
687	ALL	353873.1	3793043	7.33E-07	6.5YrCancerDerived_Inh
688	ALL	353898.1	3793043	6.75E-07	6.5YrCancerDerived_Inh
689	ALL	353923.1	3793043	6.36E-07	6.5YrCancerDerived_Inh
690	ALL	353948.1	3793043	6.05E-07	6.5YrCancerDerived_Inh
691	ALL	353973.1	3793043	5.82E-07	6.5YrCancerDerived_Inh
692	ALL	353998.1	3793043	5.62E-07	6.5YrCancerDerived_Inh
693	ALL	354023.1	3793043	5.44E-07	6.5YrCancerDerived_Inh
694	ALL	354048.1	3793043	5.26E-07	6.5YrCancerDerived_Inh
695	ALL	354073.1	3793043	5.07E-07	6.5YrCancerDerived_Inh
696	ALL	354098.1	3793043	4.88E-07	6.5YrCancerDerived_Inh
697	ALL	354123.1	3793043	4.68E-07	6.5YrCancerDerived_Inh
698	ALL	354148.1	3793043	4.48E-07	6.5YrCancerDerived_Inh
699	ALL	354173.1	3793043	4.26E-07	6.5YrCancerDerived_Inh
700	ALL	354198.1	3793043	4.05E-07	6.5YrCancerDerived_Inh
701	ALL	354223.1	3793043	3.85E-07	6.5YrCancerDerived_Inh
702	ALL	354248.1	3793043	3.66E-07	6.5YrCancerDerived_Inh
703	ALL	354273.1	3793043	3.48E-07	6.5YrCancerDerived_Inh

704	ALL	354298.1	3793043	3.31E-07	6.5YrCancerDerived_Inh
705	ALL	354323.1	3793043	3.16E-07	6.5YrCancerDerived_Inh
706	ALL	354348.1	3793043	3.01E-07	6.5YrCancerDerived_Inh
707	ALL	354373.1	3793043	2.85E-07	6.5YrCancerDerived_Inh
708	ALL	354398.1	3793043	2.71E-07	6.5YrCancerDerived_Inh
709	ALL	354423.1	3793043	2.60E-07	6.5YrCancerDerived_Inh
710	ALL	354448.1	3793043	2.48E-07	6.5YrCancerDerived_Inh
711	ALL	354473.1	3793043	2.36E-07	6.5YrCancerDerived_Inh
712	ALL	354498.1	3793043	2.25E-07	6.5YrCancerDerived_Inh
713	ALL	354523.1	3793043	2.16E-07	6.5YrCancerDerived_Inh
714	ALL	354548.1	3793043	2.06E-07	6.5YrCancerDerived_Inh
715	ALL	353773.1	3793068	1.94E-06	6.5YrCancerDerived_Inh
716	ALL	353798.1	3793068	1.28E-06	6.5YrCancerDerived_Inh
717	ALL	353823.1	3793068	9.98E-07	6.5YrCancerDerived_Inh
718	ALL	353848.1	3793068	8.51E-07	6.5YrCancerDerived_Inh
719	ALL	353873.1	3793068	7.64E-07	6.5YrCancerDerived_Inh
720	ALL	353898.1	3793068	7.08E-07	6.5YrCancerDerived_Inh
721	ALL	353923.1	3793068	6.69E-07	6.5YrCancerDerived_Inh
722	ALL	353948.1	3793068	6.41E-07	6.5YrCancerDerived_Inh
723	ALL	353973.1	3793068	6.21E-07	6.5YrCancerDerived_Inh
724	ALL	353998.1	3793068	6.02E-07	6.5YrCancerDerived_Inh
725	ALL	354023.1	3793068	5.84E-07	6.5YrCancerDerived_Inh
726	ALL	354048.1	3793068	5.65E-07	6.5YrCancerDerived_Inh
727	ALL	354073.1	3793068	5.44E-07	6.5YrCancerDerived_Inh
728	ALL	354098.1	3793068	5.23E-07	6.5YrCancerDerived_Inh
729	ALL	354123.1	3793068	5.00E-07	6.5YrCancerDerived_Inh
730	ALL	354148.1	3793068	4.78E-07	6.5YrCancerDerived_Inh
731	ALL	354173.1	3793068	4.54E-07	6.5YrCancerDerived_Inh
732	ALL	354198.1	3793068	4.31E-07	6.5YrCancerDerived_Inh
733	ALL	354223.1	3793068	4.10E-07	6.5YrCancerDerived_Inh
734	ALL	354248.1	3793068	3.88E-07	6.5YrCancerDerived_Inh
735	ALL	354273.1	3793068	3.68E-07	6.5YrCancerDerived_Inh
736	ALL	354298.1	3793068	3.48E-07	6.5YrCancerDerived_Inh
737	ALL	354323.1	3793068	3.32E-07	6.5YrCancerDerived_Inh
738	ALL	354348.1	3793068	3.16E-07	6.5YrCancerDerived_Inh
739	ALL	354373.1	3793068	2.99E-07	6.5YrCancerDerived_Inh
740	ALL	354398.1	3793068	2.83E-07	6.5YrCancerDerived_Inh
741	ALL	354423.1	3793068	2.71E-07	6.5YrCancerDerived_Inh
742	ALL	354448.1	3793068	2.58E-07	6.5YrCancerDerived_Inh
743	ALL	354473.1	3793068	2.45E-07	6.5YrCancerDerived_Inh
744	ALL	354498.1	3793068	2.34E-07	6.5YrCancerDerived_Inh
745	ALL	354523.1	3793068	2.24E-07	6.5YrCancerDerived_Inh
746	ALL	354548.1	3793068	2.14E-07	6.5YrCancerDerived_Inh
747	ALL	353773.1	3793093	1.98E-06	6.5YrCancerDerived_Inh
748	ALL	353798.1	3793093	1.31E-06	6.5YrCancerDerived_Inh
749	ALL	353823.1	3793093	1.03E-06	6.5YrCancerDerived_Inh
750	ALL	353848.1	3793093	8.87E-07	6.5YrCancerDerived_Inh

751	ALL	353873.1	3793093	7.97E-07	6.5YrCancerDerived_Inh
752	ALL	353898.1	3793093	7.39E-07	6.5YrCancerDerived_Inh
753	ALL	353923.1	3793093	7.09E-07	6.5YrCancerDerived_Inh
754	ALL	353948.1	3793093	6.88E-07	6.5YrCancerDerived_Inh
755	ALL	353973.1	3793093	6.70E-07	6.5YrCancerDerived_Inh
756	ALL	353998.1	3793093	6.52E-07	6.5YrCancerDerived_Inh
757	ALL	354023.1	3793093	6.34E-07	6.5YrCancerDerived_Inh
758	ALL	354048.1	3793093	6.13E-07	6.5YrCancerDerived_Inh
759	ALL	354073.1	3793093	5.90E-07	6.5YrCancerDerived_Inh
760	ALL	354098.1	3793093	5.66E-07	6.5YrCancerDerived_Inh
761	ALL	354123.1	3793093	5.39E-07	6.5YrCancerDerived_Inh
762	ALL	354148.1	3793093	5.11E-07	6.5YrCancerDerived_Inh
763	ALL	354173.1	3793093	4.89E-07	6.5YrCancerDerived_Inh
764	ALL	354198.1	3793093	4.62E-07	6.5YrCancerDerived_Inh
765	ALL	354223.1	3793093	4.41E-07	6.5YrCancerDerived_Inh
766	ALL	354248.1	3793093	4.17E-07	6.5YrCancerDerived_Inh
767	ALL	354273.1	3793093	3.92E-07	6.5YrCancerDerived_Inh
768	ALL	354298.1	3793093	3.67E-07	6.5YrCancerDerived_Inh
769	ALL	354323.1	3793093	3.49E-07	6.5YrCancerDerived_Inh
770	ALL	354348.1	3793093	3.32E-07	6.5YrCancerDerived_Inh
771	ALL	354373.1	3793093	3.14E-07	6.5YrCancerDerived_Inh
772	ALL	354398.1	3793093	2.96E-07	6.5YrCancerDerived_Inh
773	ALL	354423.1	3793093	2.83E-07	6.5YrCancerDerived_Inh
774	ALL	354448.1	3793093	2.68E-07	6.5YrCancerDerived_Inh
775	ALL	354473.1	3793093	2.55E-07	6.5YrCancerDerived_Inh
776	ALL	354498.1	3793093	2.43E-07	6.5YrCancerDerived_Inh
777	ALL	354523.1	3793093	2.32E-07	6.5YrCancerDerived_Inh
778	ALL	354548.1	3793093	2.21E-07	6.5YrCancerDerived_Inh
779	ALL	353773.1	3793118	1.81E-06	6.5YrCancerDerived_Inh
780	ALL	353798.1	3793118	1.34E-06	6.5YrCancerDerived_Inh
781	ALL	353823.1	3793118	1.07E-06	6.5YrCancerDerived_Inh
782	ALL	353848.1	3793118	9.25E-07	6.5YrCancerDerived_Inh
783	ALL	353873.1	3793118	8.44E-07	6.5YrCancerDerived_Inh
784	ALL	353898.1	3793118	7.89E-07	6.5YrCancerDerived_Inh
785	ALL	353923.1	3793118	7.57E-07	6.5YrCancerDerived_Inh
786	ALL	353948.1	3793118	7.36E-07	6.5YrCancerDerived_Inh
787	ALL	353973.1	3793118	7.19E-07	6.5YrCancerDerived_Inh
788	ALL	353998.1	3793118	7.01E-07	6.5YrCancerDerived_Inh
789	ALL	354023.1	3793118	6.81E-07	6.5YrCancerDerived_Inh
790	ALL	354048.1	3793118	6.59E-07	6.5YrCancerDerived_Inh
791	ALL	354073.1	3793118	6.34E-07	6.5YrCancerDerived_Inh
792	ALL	354098.1	3793118	6.08E-07	6.5YrCancerDerived_Inh
793	ALL	354123.1	3793118	5.82E-07	6.5YrCancerDerived_Inh
794	ALL	354148.1	3793118	5.49E-07	6.5YrCancerDerived_Inh
795	ALL	354173.1	3793118	5.22E-07	6.5YrCancerDerived_Inh
796	ALL	354198.1	3793118	4.92E-07	6.5YrCancerDerived_Inh
797	ALL	354223.1	3793118	4.67E-07	6.5YrCancerDerived_Inh

798	ALL	354248.1	3793118	4.39E-07	6.5YrCancerDerived_Inh
799	ALL	354273.1	3793118	4.12E-07	6.5YrCancerDerived_Inh
800	ALL	354298.1	3793118	3.87E-07	6.5YrCancerDerived_Inh
801	ALL	354323.1	3793118	3.67E-07	6.5YrCancerDerived_Inh
802	ALL	354348.1	3793118	3.48E-07	6.5YrCancerDerived_Inh
803	ALL	354373.1	3793118	3.30E-07	6.5YrCancerDerived_Inh
804	ALL	354398.1	3793118	3.10E-07	6.5YrCancerDerived_Inh
805	ALL	354423.1	3793118	2.96E-07	6.5YrCancerDerived_Inh
806	ALL	354448.1	3793118	2.80E-07	6.5YrCancerDerived_Inh
807	ALL	354473.1	3793118	2.65E-07	6.5YrCancerDerived_Inh
808	ALL	354498.1	3793118	2.51E-07	6.5YrCancerDerived_Inh
809	ALL	354523.1	3793118	2.40E-07	6.5YrCancerDerived_Inh
810	ALL	354548.1	3793118	2.28E-07	6.5YrCancerDerived_Inh
811	ALL	353773.1	3793143	2.05E-06	6.5YrCancerDerived_Inh
812	ALL	353798.1	3793143	1.38E-06	6.5YrCancerDerived_Inh
813	ALL	353823.1	3793143	1.11E-06	6.5YrCancerDerived_Inh
814	ALL	353848.1	3793143	9.65E-07	6.5YrCancerDerived_Inh
815	ALL	353873.1	3793143	8.91E-07	6.5YrCancerDerived_Inh
816	ALL	353898.1	3793143	8.41E-07	6.5YrCancerDerived_Inh
817	ALL	353923.1	3793143	8.12E-07	6.5YrCancerDerived_Inh
818	ALL	353948.1	3793143	7.96E-07	6.5YrCancerDerived_Inh
819	ALL	353973.1	3793143	7.78E-07	6.5YrCancerDerived_Inh
820	ALL	353998.1	3793143	7.61E-07	6.5YrCancerDerived_Inh
821	ALL	354023.1	3793143	7.41E-07	6.5YrCancerDerived_Inh
822	ALL	354048.1	3793143	7.16E-07	6.5YrCancerDerived_Inh
823	ALL	354073.1	3793143	6.86E-07	6.5YrCancerDerived_Inh
824	ALL	354098.1	3793143	6.57E-07	6.5YrCancerDerived_Inh
825	ALL	354123.1	3793143	6.29E-07	6.5YrCancerDerived_Inh
826	ALL	354148.1	3793143	5.92E-07	6.5YrCancerDerived_Inh
827	ALL	354173.1	3793143	5.60E-07	6.5YrCancerDerived_Inh
828	ALL	354198.1	3793143	5.28E-07	6.5YrCancerDerived_Inh
829	ALL	354223.1	3793143	4.96E-07	6.5YrCancerDerived_Inh
830	ALL	354248.1	3793143	4.66E-07	6.5YrCancerDerived_Inh
831	ALL	354273.1	3793143	4.37E-07	6.5YrCancerDerived_Inh
832	ALL	354298.1	3793143	4.10E-07	6.5YrCancerDerived_Inh
833	ALL	354323.1	3793143	3.88E-07	6.5YrCancerDerived_Inh
834	ALL	354348.1	3793143	3.67E-07	6.5YrCancerDerived_Inh
835	ALL	354373.1	3793143	3.46E-07	6.5YrCancerDerived_Inh
836	ALL	354398.1	3793143	3.25E-07	6.5YrCancerDerived_Inh
837	ALL	354423.1	3793143	3.09E-07	6.5YrCancerDerived_Inh
838	ALL	354448.1	3793143	2.91E-07	6.5YrCancerDerived_Inh
839	ALL	354473.1	3793143	2.75E-07	6.5YrCancerDerived_Inh
840	ALL	354498.1	3793143	2.61E-07	6.5YrCancerDerived_Inh
841	ALL	354523.1	3793143	2.48E-07	6.5YrCancerDerived_Inh
842	ALL	354548.1	3793143	2.36E-07	6.5YrCancerDerived_Inh
843	ALL	353773.1	3793168	1.87E-06	6.5YrCancerDerived_Inh
844	ALL	353798.1	3793168	1.41E-06	6.5YrCancerDerived_Inh

845	ALL	353823.1	3793168	1.14E-06	6.5YrCancerDerived_Inh
846	ALL	353848.1	3793168	1.00E-06	6.5YrCancerDerived_Inh
847	ALL	353873.1	3793168	9.39E-07	6.5YrCancerDerived_Inh
848	ALL	353898.1	3793168	9.02E-07	6.5YrCancerDerived_Inh
849	ALL	353923.1	3793168	8.79E-07	6.5YrCancerDerived_Inh
850	ALL	353948.1	3793168	8.69E-07	6.5YrCancerDerived_Inh
851	ALL	353973.1	3793168	8.51E-07	6.5YrCancerDerived_Inh
852	ALL	353998.1	3793168	8.35E-07	6.5YrCancerDerived_Inh
853	ALL	354023.1	3793168	8.13E-07	6.5YrCancerDerived_Inh
854	ALL	354048.1	3793168	7.84E-07	6.5YrCancerDerived_Inh
855	ALL	354073.1	3793168	7.49E-07	6.5YrCancerDerived_Inh
856	ALL	354098.1	3793168	7.14E-07	6.5YrCancerDerived_Inh
857	ALL	354123.1	3793168	6.84E-07	6.5YrCancerDerived_Inh
858	ALL	354148.1	3793168	6.42E-07	6.5YrCancerDerived_Inh
859	ALL	354173.1	3793168	6.07E-07	6.5YrCancerDerived_Inh
860	ALL	354198.1	3793168	5.69E-07	6.5YrCancerDerived_Inh
861	ALL	354223.1	3793168	5.33E-07	6.5YrCancerDerived_Inh
862	ALL	354248.1	3793168	4.99E-07	6.5YrCancerDerived_Inh
863	ALL	354273.1	3793168	4.67E-07	6.5YrCancerDerived_Inh
864	ALL	354298.1	3793168	4.35E-07	6.5YrCancerDerived_Inh
865	ALL	354323.1	3793168	4.10E-07	6.5YrCancerDerived_Inh
866	ALL	354348.1	3793168	3.86E-07	6.5YrCancerDerived_Inh
867	ALL	354373.1	3793168	3.64E-07	6.5YrCancerDerived_Inh
868	ALL	354398.1	3793168	3.41E-07	6.5YrCancerDerived_Inh
869	ALL	354423.1	3793168	3.23E-07	6.5YrCancerDerived_Inh
870	ALL	354448.1	3793168	3.03E-07	6.5YrCancerDerived_Inh
871	ALL	354473.1	3793168	2.86E-07	6.5YrCancerDerived_Inh
872	ALL	354498.1	3793168	2.70E-07	6.5YrCancerDerived_Inh
873	ALL	354523.1	3793168	2.57E-07	6.5YrCancerDerived_Inh
874	ALL	354548.1	3793168	2.43E-07	6.5YrCancerDerived_Inh
875	ALL	353773.1	3793193	1.92E-06	6.5YrCancerDerived_Inh
876	ALL	353798.1	3793193	1.40E-06	6.5YrCancerDerived_Inh
877	ALL	353823.1	3793193	1.17E-06	6.5YrCancerDerived_Inh
878	ALL	353848.1	3793193	1.06E-06	6.5YrCancerDerived_Inh
879	ALL	353873.1	3793193	1.01E-06	6.5YrCancerDerived_Inh
880	ALL	353898.1	3793193	9.77E-07	6.5YrCancerDerived_Inh
881	ALL	353923.1	3793193	9.62E-07	6.5YrCancerDerived_Inh
882	ALL	353948.1	3793193	9.57E-07	6.5YrCancerDerived_Inh
883	ALL	353973.1	3793193	9.41E-07	6.5YrCancerDerived_Inh
884	ALL	353998.1	3793193	9.25E-07	6.5YrCancerDerived_Inh
885	ALL	354023.1	3793193	9.01E-07	6.5YrCancerDerived_Inh
886	ALL	354048.1	3793193	8.68E-07	6.5YrCancerDerived_Inh
887	ALL	354073.1	3793193	8.26E-07	6.5YrCancerDerived_Inh
888	ALL	354098.1	3793193	7.86E-07	6.5YrCancerDerived_Inh
889	ALL	354123.1	3793193	7.50E-07	6.5YrCancerDerived_Inh
890	ALL	354148.1	3793193	7.00E-07	6.5YrCancerDerived_Inh
891	ALL	354173.1	3793193	6.60E-07	6.5YrCancerDerived_Inh

892	ALL	354198.1	3793193	6.15E-07	6.5YrCancerDerived_Inh
893	ALL	354223.1	3793193	5.73E-07	6.5YrCancerDerived_Inh
894	ALL	354248.1	3793193	5.34E-07	6.5YrCancerDerived_Inh
895	ALL	354273.1	3793193	4.99E-07	6.5YrCancerDerived_Inh
896	ALL	354298.1	3793193	4.62E-07	6.5YrCancerDerived_Inh
897	ALL	354323.1	3793193	4.34E-07	6.5YrCancerDerived_Inh
898	ALL	354348.1	3793193	4.08E-07	6.5YrCancerDerived_Inh
899	ALL	354373.1	3793193	3.83E-07	6.5YrCancerDerived_Inh
900	ALL	354398.1	3793193	3.58E-07	6.5YrCancerDerived_Inh
901	ALL	354423.1	3793193	3.38E-07	6.5YrCancerDerived_Inh
902	ALL	354448.1	3793193	3.16E-07	6.5YrCancerDerived_Inh
903	ALL	354473.1	3793193	2.97E-07	6.5YrCancerDerived_Inh
904	ALL	354498.1	3793193	2.80E-07	6.5YrCancerDerived_Inh
905	ALL	354523.1	3793193	2.66E-07	6.5YrCancerDerived_Inh
906	ALL	354548.1	3793193	2.51E-07	6.5YrCancerDerived_Inh
907	ALL	353773.1	3793218	1.95E-06	6.5YrCancerDerived_Inh
908	ALL	353798.1	3793218	1.50E-06	6.5YrCancerDerived_Inh
909	ALL	353823.1	3793218	1.25E-06	6.5YrCancerDerived_Inh
910	ALL	353848.1	3793218	1.14E-06	6.5YrCancerDerived_Inh
911	ALL	353873.1	3793218	1.09E-06	6.5YrCancerDerived_Inh
912	ALL	353898.1	3793218	1.07E-06	6.5YrCancerDerived_Inh
913	ALL	353948.1	3793218	1.06E-06	6.5YrCancerDerived_Inh
914	ALL	353973.1	3793218	1.05E-06	6.5YrCancerDerived_Inh
915	ALL	353998.1	3793218	1.04E-06	6.5YrCancerDerived_Inh
916	ALL	354023.1	3793218	1.01E-06	6.5YrCancerDerived_Inh
917	ALL	354048.1	3793218	9.72E-07	6.5YrCancerDerived_Inh
918	ALL	354073.1	3793218	9.22E-07	6.5YrCancerDerived_Inh
919	ALL	354098.1	3793218	8.79E-07	6.5YrCancerDerived_Inh
920	ALL	354123.1	3793218	8.28E-07	6.5YrCancerDerived_Inh
921	ALL	354148.1	3793218	7.69E-07	6.5YrCancerDerived_Inh
922	ALL	354173.1	3793218	7.16E-07	6.5YrCancerDerived_Inh
923	ALL	354198.1	3793218	6.64E-07	6.5YrCancerDerived_Inh
924	ALL	354223.1	3793218	6.15E-07	6.5YrCancerDerived_Inh
925	ALL	354248.1	3793218	5.71E-07	6.5YrCancerDerived_Inh
926	ALL	354273.1	3793218	5.31E-07	6.5YrCancerDerived_Inh
927	ALL	354298.1	3793218	4.91E-07	6.5YrCancerDerived_Inh
928	ALL	354323.1	3793218	4.60E-07	6.5YrCancerDerived_Inh
929	ALL	354348.1	3793218	4.31E-07	6.5YrCancerDerived_Inh
930	ALL	354373.1	3793218	4.03E-07	6.5YrCancerDerived_Inh
931	ALL	354398.1	3793218	3.75E-07	6.5YrCancerDerived_Inh
932	ALL	354423.1	3793218	3.53E-07	6.5YrCancerDerived_Inh
933	ALL	354448.1	3793218	3.30E-07	6.5YrCancerDerived_Inh
934	ALL	354473.1	3793218	3.09E-07	6.5YrCancerDerived_Inh
935	ALL	354498.1	3793218	2.90E-07	6.5YrCancerDerived_Inh
936	ALL	354523.1	3793218	2.74E-07	6.5YrCancerDerived_Inh
937	ALL	354548.1	3793218	2.59E-07	6.5YrCancerDerived_Inh
938	ALL	354173.1	3793243	7.86E-07	6.5YrCancerDerived_Inh

939	ALL	354198.1	3793243	7.23E-07	6.5YrCancerDerived_Inh
940	ALL	354223.1	3793243	6.66E-07	6.5YrCancerDerived_Inh
941	ALL	354248.1	3793243	6.15E-07	6.5YrCancerDerived_Inh
942	ALL	354273.1	3793243	5.71E-07	6.5YrCancerDerived_Inh
943	ALL	354298.1	3793243	5.25E-07	6.5YrCancerDerived_Inh
944	ALL	354323.1	3793243	4.88E-07	6.5YrCancerDerived_Inh
945	ALL	354348.1	3793243	4.55E-07	6.5YrCancerDerived_Inh
946	ALL	354373.1	3793243	4.23E-07	6.5YrCancerDerived_Inh
947	ALL	354398.1	3793243	3.93E-07	6.5YrCancerDerived_Inh
948	ALL	354423.1	3793243	3.68E-07	6.5YrCancerDerived_Inh
949	ALL	354448.1	3793243	3.45E-07	6.5YrCancerDerived_Inh
950	ALL	354473.1	3793243	3.22E-07	6.5YrCancerDerived_Inh
951	ALL	354498.1	3793243	3.00E-07	6.5YrCancerDerived_Inh
952	ALL	354523.1	3793243	2.83E-07	6.5YrCancerDerived_Inh
953	ALL	354548.1	3793243	2.66E-07	6.5YrCancerDerived_Inh
954	ALL	353773.1	3793268	2.03E-06	6.5YrCancerDerived_Inh
955	ALL	353798.1	3793268	1.66E-06	6.5YrCancerDerived_Inh
956	ALL	353823.1	3793268	1.42E-06	6.5YrCancerDerived_Inh
957	ALL	354173.1	3793268	8.69E-07	6.5YrCancerDerived_Inh
958	ALL	354198.1	3793268	7.91E-07	6.5YrCancerDerived_Inh
959	ALL	354223.1	3793268	7.22E-07	6.5YrCancerDerived_Inh
960	ALL	354248.1	3793268	6.63E-07	6.5YrCancerDerived_Inh
961	ALL	354273.1	3793268	6.13E-07	6.5YrCancerDerived_Inh
962	ALL	354298.1	3793268	5.61E-07	6.5YrCancerDerived_Inh
963	ALL	354323.1	3793268	5.18E-07	6.5YrCancerDerived_Inh
964	ALL	354348.1	3793268	4.81E-07	6.5YrCancerDerived_Inh
965	ALL	354373.1	3793268	4.45E-07	6.5YrCancerDerived_Inh
966	ALL	354398.1	3793268	4.11E-07	6.5YrCancerDerived_Inh
967	ALL	354423.1	3793268	3.83E-07	6.5YrCancerDerived_Inh
968	ALL	354448.1	3793268	3.58E-07	6.5YrCancerDerived_Inh
969	ALL	354473.1	3793268	3.33E-07	6.5YrCancerDerived_Inh
970	ALL	354498.1	3793268	3.10E-07	6.5YrCancerDerived_Inh
971	ALL	354523.1	3793268	2.91E-07	6.5YrCancerDerived_Inh
972	ALL	354548.1	3793268	2.74E-07	6.5YrCancerDerived_Inh
973	ALL	353773.1	3793293	1.90E-06	6.5YrCancerDerived_Inh
974	ALL	353798.1	3793293	1.74E-06	6.5YrCancerDerived_Inh
975	ALL	353823.1	3793293	1.53E-06	6.5YrCancerDerived_Inh
976	ALL	354173.1	3793293	9.78E-07	6.5YrCancerDerived_Inh
977	ALL	354198.1	3793293	8.80E-07	6.5YrCancerDerived_Inh
978	ALL	354223.1	3793293	7.95E-07	6.5YrCancerDerived_Inh
979	ALL	354248.1	3793293	7.24E-07	6.5YrCancerDerived_Inh
980	ALL	354273.1	3793293	6.61E-07	6.5YrCancerDerived_Inh
981	ALL	354298.1	3793293	6.00E-07	6.5YrCancerDerived_Inh
982	ALL	354323.1	3793293	5.51E-07	6.5YrCancerDerived_Inh
983	ALL	354348.1	3793293	5.08E-07	6.5YrCancerDerived_Inh
984	ALL	354373.1	3793293	4.67E-07	6.5YrCancerDerived_Inh
985	ALL	354398.1	3793293	4.30E-07	6.5YrCancerDerived_Inh

986	ALL	354423.1	3793293	3.99E-07	6.5YrCancerDerived_Inh
987	ALL	354448.1	3793293	3.72E-07	6.5YrCancerDerived_Inh
988	ALL	354473.1	3793293	3.44E-07	6.5YrCancerDerived_Inh
989	ALL	354498.1	3793293	3.19E-07	6.5YrCancerDerived_Inh
990	ALL	354523.1	3793293	2.99E-07	6.5YrCancerDerived_Inh
991	ALL	354548.1	3793293	2.81E-07	6.5YrCancerDerived_Inh
992	ALL	353773.1	3793318	2.15E-06	6.5YrCancerDerived_Inh
993	ALL	353798.1	3793318	1.83E-06	6.5YrCancerDerived_Inh
994	ALL	353823.1	3793318	1.68E-06	6.5YrCancerDerived_Inh
995	ALL	354173.1	3793318	1.11E-06	6.5YrCancerDerived_Inh
996	ALL	354198.1	3793318	9.84E-07	6.5YrCancerDerived_Inh
997	ALL	354223.1	3793318	8.75E-07	6.5YrCancerDerived_Inh
998	ALL	354248.1	3793318	7.89E-07	6.5YrCancerDerived_Inh
999	ALL	354273.1	3793318	7.12E-07	6.5YrCancerDerived_Inh
1000	ALL	354298.1	3793318	6.42E-07	6.5YrCancerDerived_Inh
1001	ALL	354323.1	3793318	5.85E-07	6.5YrCancerDerived_Inh
1002	ALL	354348.1	3793318	5.36E-07	6.5YrCancerDerived_Inh
1003	ALL	354373.1	3793318	4.89E-07	6.5YrCancerDerived_Inh
1004	ALL	354398.1	3793318	4.48E-07	6.5YrCancerDerived_Inh
1005	ALL	354423.1	3793318	4.14E-07	6.5YrCancerDerived_Inh
1006	ALL	354448.1	3793318	3.85E-07	6.5YrCancerDerived_Inh
1007	ALL	354473.1	3793318	3.54E-07	6.5YrCancerDerived_Inh
1008	ALL	354498.1	3793318	3.26E-07	6.5YrCancerDerived_Inh
1009	ALL	354523.1	3793318	3.06E-07	6.5YrCancerDerived_Inh
1010	ALL	354548.1	3793318	2.88E-07	6.5YrCancerDerived_Inh
1011	ALL	353773.1	3793343	2.36E-06	6.5YrCancerDerived_Inh
1012	ALL	353798.1	3793343	1.93E-06	6.5YrCancerDerived_Inh
1013	ALL	353823.1	3793343	1.87E-06	6.5YrCancerDerived_Inh
1014	ALL	354173.1	3793343	1.27E-06	6.5YrCancerDerived_Inh
1015	ALL	354198.1	3793343	1.10E-06	6.5YrCancerDerived_Inh
1016	ALL	354223.1	3793343	9.58E-07	6.5YrCancerDerived_Inh
1017	ALL	354248.1	3793343	8.55E-07	6.5YrCancerDerived_Inh
1018	ALL	354273.1	3793343	7.66E-07	6.5YrCancerDerived_Inh
1019	ALL	354298.1	3793343	6.87E-07	6.5YrCancerDerived_Inh
1020	ALL	354323.1	3793343	6.21E-07	6.5YrCancerDerived_Inh
1021	ALL	354348.1	3793343	5.64E-07	6.5YrCancerDerived_Inh
1022	ALL	354373.1	3793343	5.12E-07	6.5YrCancerDerived_Inh
1023	ALL	354398.1	3793343	4.66E-07	6.5YrCancerDerived_Inh
1024	ALL	354423.1	3793343	4.28E-07	6.5YrCancerDerived_Inh
1025	ALL	354448.1	3793343	3.95E-07	6.5YrCancerDerived_Inh
1026	ALL	354473.1	3793343	3.62E-07	6.5YrCancerDerived_Inh
1027	ALL	354498.1	3793343	3.33E-07	6.5YrCancerDerived_Inh
1028	ALL	354523.1	3793343	3.11E-07	6.5YrCancerDerived_Inh
1029	ALL	354548.1	3793343	2.94E-07	6.5YrCancerDerived_Inh
1030	ALL	354173.1	3793368	1.45E-06	6.5YrCancerDerived_Inh
1031	ALL	354198.1	3793368	1.24E-06	6.5YrCancerDerived_Inh
1032	ALL	354223.1	3793368	1.05E-06	6.5YrCancerDerived_Inh

1033	ALL	354248.1	3793368	9.26E-07	6.5YrCancerDerived_Inh
1034	ALL	354273.1	3793368	8.21E-07	6.5YrCancerDerived_Inh
1035	ALL	354298.1	3793368	7.30E-07	6.5YrCancerDerived_Inh
1036	ALL	354323.1	3793368	6.54E-07	6.5YrCancerDerived_Inh
1037	ALL	354348.1	3793368	5.90E-07	6.5YrCancerDerived_Inh
1038	ALL	354373.1	3793368	5.35E-07	6.5YrCancerDerived_Inh
1039	ALL	354398.1	3793368	4.84E-07	6.5YrCancerDerived_Inh
1040	ALL	354423.1	3793368	4.42E-07	6.5YrCancerDerived_Inh
1041	ALL	354448.1	3793368	4.04E-07	6.5YrCancerDerived_Inh
1042	ALL	354473.1	3793368	3.68E-07	6.5YrCancerDerived_Inh
1043	ALL	354498.1	3793368	3.38E-07	6.5YrCancerDerived_Inh
1044	ALL	354523.1	3793368	3.16E-07	6.5YrCancerDerived_Inh
1045	ALL	354548.1	3793368	2.99E-07	6.5YrCancerDerived_Inh
1046	ALL	354173.1	3793393	1.68E-06	6.5YrCancerDerived_Inh
1047	ALL	354198.1	3793393	1.39E-06	6.5YrCancerDerived_Inh
1048	ALL	354223.1	3793393	1.17E-06	6.5YrCancerDerived_Inh
1049	ALL	354248.1	3793393	1.00E-06	6.5YrCancerDerived_Inh
1050	ALL	354273.1	3793393	8.75E-07	6.5YrCancerDerived_Inh
1051	ALL	354298.1	3793393	7.69E-07	6.5YrCancerDerived_Inh
1052	ALL	354323.1	3793393	6.83E-07	6.5YrCancerDerived_Inh
1053	ALL	354348.1	3793393	6.12E-07	6.5YrCancerDerived_Inh
1054	ALL	354373.1	3793393	5.51E-07	6.5YrCancerDerived_Inh
1055	ALL	354398.1	3793393	4.98E-07	6.5YrCancerDerived_Inh
1056	ALL	354423.1	3793393	4.53E-07	6.5YrCancerDerived_Inh
1057	ALL	354448.1	3793393	4.11E-07	6.5YrCancerDerived_Inh
1058	ALL	354473.1	3793393	3.73E-07	6.5YrCancerDerived_Inh
1059	ALL	354498.1	3793393	3.44E-07	6.5YrCancerDerived_Inh
1060	ALL	354523.1	3793393	3.20E-07	6.5YrCancerDerived_Inh
1061	ALL	354548.1	3793393	3.03E-07	6.5YrCancerDerived_Inh
1062	ALL	354198.1	3793418	1.57E-06	6.5YrCancerDerived_Inh
1063	ALL	354223.1	3793418	1.28E-06	6.5YrCancerDerived_Inh
1064	ALL	354248.1	3793418	1.08E-06	6.5YrCancerDerived_Inh
1065	ALL	354273.1	3793418	9.25E-07	6.5YrCancerDerived_Inh
1066	ALL	354298.1	3793418	8.06E-07	6.5YrCancerDerived_Inh
1067	ALL	354323.1	3793418	7.11E-07	6.5YrCancerDerived_Inh
1068	ALL	354348.1	3793418	6.32E-07	6.5YrCancerDerived_Inh
1069	ALL	354373.1	3793418	5.67E-07	6.5YrCancerDerived_Inh
1070	ALL	354398.1	3793418	5.11E-07	6.5YrCancerDerived_Inh
1071	ALL	354423.1	3793418	4.64E-07	6.5YrCancerDerived_Inh
1072	ALL	354448.1	3793418	4.17E-07	6.5YrCancerDerived_Inh
1073	ALL	354473.1	3793418	3.77E-07	6.5YrCancerDerived_Inh
1074	ALL	354498.1	3793418	3.49E-07	6.5YrCancerDerived_Inh
1075	ALL	354523.1	3793418	3.30E-07	6.5YrCancerDerived_Inh
1076	ALL	354548.1	3793418	3.13E-07	6.5YrCancerDerived_Inh
1077	ALL	353015.5	3792510	7.72E-08	6.5YrCancerDerived_Inh
1078	ALL	353040.5	3792510	7.93E-08	6.5YrCancerDerived_Inh
1079	ALL	353065.5	3792510	8.15E-08	6.5YrCancerDerived_Inh

1080	ALL	353090.5	3792510	8.36E-08	6.5YrCancerDerived_Inh
1081	ALL	353115.5	3792510	8.63E-08	6.5YrCancerDerived_Inh
1082	ALL	353140.5	3792510	8.90E-08	6.5YrCancerDerived_Inh
1083	ALL	353165.5	3792510	9.15E-08	6.5YrCancerDerived_Inh
1084	ALL	353190.5	3792510	9.40E-08	6.5YrCancerDerived_Inh
1085	ALL	353215.5	3792510	9.77E-08	6.5YrCancerDerived_Inh
1086	ALL	353240.5	3792510	1.01E-07	6.5YrCancerDerived_Inh
1087	ALL	353265.5	3792510	1.04E-07	6.5YrCancerDerived_Inh
1088	ALL	353290.5	3792510	1.08E-07	6.5YrCancerDerived_Inh
1089	ALL	353315.5	3792510	1.12E-07	6.5YrCancerDerived_Inh
1090	ALL	353340.5	3792510	1.16E-07	6.5YrCancerDerived_Inh
1091	ALL	353365.5	3792510	1.20E-07	6.5YrCancerDerived_Inh
1092	ALL	353390.5	3792510	1.25E-07	6.5YrCancerDerived_Inh
1093	ALL	353415.5	3792510	1.30E-07	6.5YrCancerDerived_Inh
1094	ALL	353440.5	3792510	1.35E-07	6.5YrCancerDerived_Inh
1095	ALL	353465.5	3792510	1.41E-07	6.5YrCancerDerived_Inh
1096	ALL	353490.5	3792510	1.48E-07	6.5YrCancerDerived_Inh
1097	ALL	353515.5	3792510	1.55E-07	6.5YrCancerDerived_Inh
1098	ALL	353540.5	3792510	1.62E-07	6.5YrCancerDerived_Inh
1099	ALL	353565.5	3792510	1.71E-07	6.5YrCancerDerived_Inh
1100	ALL	353590.5	3792510	1.80E-07	6.5YrCancerDerived_Inh
1101	ALL	353615.5	3792510	1.90E-07	6.5YrCancerDerived_Inh
1102	ALL	353640.5	3792510	2.01E-07	6.5YrCancerDerived_Inh
1103	ALL	353665.5	3792510	2.13E-07	6.5YrCancerDerived_Inh
1104	ALL	353690.5	3792510	2.26E-07	6.5YrCancerDerived_Inh
1105	ALL	353715.5	3792510	2.39E-07	6.5YrCancerDerived_Inh
1106	ALL	353015.5	3792535	7.91E-08	6.5YrCancerDerived_Inh
1107	ALL	353040.5	3792535	8.13E-08	6.5YrCancerDerived_Inh
1108	ALL	353065.5	3792535	8.35E-08	6.5YrCancerDerived_Inh
1109	ALL	353090.5	3792535	8.58E-08	6.5YrCancerDerived_Inh
1110	ALL	353115.5	3792535	8.86E-08	6.5YrCancerDerived_Inh
1111	ALL	353140.5	3792535	9.13E-08	6.5YrCancerDerived_Inh
1112	ALL	353165.5	3792535	9.41E-08	6.5YrCancerDerived_Inh
1113	ALL	353190.5	3792535	9.61E-08	6.5YrCancerDerived_Inh
1114	ALL	353215.5	3792535	1.00E-07	6.5YrCancerDerived_Inh
1115	ALL	353240.5	3792535	1.04E-07	6.5YrCancerDerived_Inh
1116	ALL	353265.5	3792535	1.08E-07	6.5YrCancerDerived_Inh
1117	ALL	353290.5	3792535	1.12E-07	6.5YrCancerDerived_Inh
1118	ALL	353315.5	3792535	1.16E-07	6.5YrCancerDerived_Inh
1119	ALL	353340.5	3792535	1.20E-07	6.5YrCancerDerived_Inh
1120	ALL	353365.5	3792535	1.25E-07	6.5YrCancerDerived_Inh
1121	ALL	353390.5	3792535	1.30E-07	6.5YrCancerDerived_Inh
1122	ALL	353415.5	3792535	1.35E-07	6.5YrCancerDerived_Inh
1123	ALL	353440.5	3792535	1.41E-07	6.5YrCancerDerived_Inh
1124	ALL	353465.5	3792535	1.48E-07	6.5YrCancerDerived_Inh
1125	ALL	353490.5	3792535	1.55E-07	6.5YrCancerDerived_Inh
1126	ALL	353515.5	3792535	1.63E-07	6.5YrCancerDerived_Inh

1127	ALL	353540.5	3792535	1.71E-07	6.5YrCancerDerived_Inh
1128	ALL	353565.5	3792535	1.81E-07	6.5YrCancerDerived_Inh
1129	ALL	353590.5	3792535	1.92E-07	6.5YrCancerDerived_Inh
1130	ALL	353615.5	3792535	2.04E-07	6.5YrCancerDerived_Inh
1131	ALL	353640.5	3792535	2.17E-07	6.5YrCancerDerived_Inh
1132	ALL	353665.5	3792535	2.33E-07	6.5YrCancerDerived_Inh
1133	ALL	353690.5	3792535	2.50E-07	6.5YrCancerDerived_Inh
1134	ALL	353715.5	3792535	2.68E-07	6.5YrCancerDerived_Inh
1135	ALL	353015.5	3792560	8.10E-08	6.5YrCancerDerived_Inh
1136	ALL	353040.5	3792560	8.33E-08	6.5YrCancerDerived_Inh
1137	ALL	353065.5	3792560	8.57E-08	6.5YrCancerDerived_Inh
1138	ALL	353090.5	3792560	8.79E-08	6.5YrCancerDerived_Inh
1139	ALL	353115.5	3792560	9.10E-08	6.5YrCancerDerived_Inh
1140	ALL	353140.5	3792560	9.38E-08	6.5YrCancerDerived_Inh
1141	ALL	353165.5	3792560	9.68E-08	6.5YrCancerDerived_Inh
1142	ALL	353190.5	3792560	9.86E-08	6.5YrCancerDerived_Inh
1143	ALL	353215.5	3792560	1.03E-07	6.5YrCancerDerived_Inh
1144	ALL	353240.5	3792560	1.07E-07	6.5YrCancerDerived_Inh
1145	ALL	353265.5	3792560	1.11E-07	6.5YrCancerDerived_Inh
1146	ALL	353290.5	3792560	1.15E-07	6.5YrCancerDerived_Inh
1147	ALL	353315.5	3792560	1.20E-07	6.5YrCancerDerived_Inh
1148	ALL	353340.5	3792560	1.24E-07	6.5YrCancerDerived_Inh
1149	ALL	353365.5	3792560	1.29E-07	6.5YrCancerDerived_Inh
1150	ALL	353390.5	3792560	1.35E-07	6.5YrCancerDerived_Inh
1151	ALL	353415.5	3792560	1.41E-07	6.5YrCancerDerived_Inh
1152	ALL	353440.5	3792560	1.48E-07	6.5YrCancerDerived_Inh
1153	ALL	353465.5	3792560	1.55E-07	6.5YrCancerDerived_Inh
1154	ALL	353490.5	3792560	1.62E-07	6.5YrCancerDerived_Inh
1155	ALL	353515.5	3792560	1.71E-07	6.5YrCancerDerived_Inh
1156	ALL	353540.5	3792560	1.81E-07	6.5YrCancerDerived_Inh
1157	ALL	353565.5	3792560	1.92E-07	6.5YrCancerDerived_Inh
1158	ALL	353590.5	3792560	2.05E-07	6.5YrCancerDerived_Inh
1159	ALL	353615.5	3792560	2.20E-07	6.5YrCancerDerived_Inh
1160	ALL	353640.5	3792560	2.37E-07	6.5YrCancerDerived_Inh
1161	ALL	353665.5	3792560	2.57E-07	6.5YrCancerDerived_Inh
1162	ALL	353690.5	3792560	2.82E-07	6.5YrCancerDerived_Inh
1163	ALL	353715.5	3792560	3.09E-07	6.5YrCancerDerived_Inh
1164	ALL	353015.5	3792585	8.27E-08	6.5YrCancerDerived_Inh
1165	ALL	353040.5	3792585	8.51E-08	6.5YrCancerDerived_Inh
1166	ALL	353065.5	3792585	8.76E-08	6.5YrCancerDerived_Inh
1167	ALL	353090.5	3792585	9.02E-08	6.5YrCancerDerived_Inh
1168	ALL	353115.5	3792585	9.34E-08	6.5YrCancerDerived_Inh
1169	ALL	353140.5	3792585	9.64E-08	6.5YrCancerDerived_Inh
1170	ALL	353165.5	3792585	9.94E-08	6.5YrCancerDerived_Inh
1171	ALL	353190.5	3792585	1.02E-07	6.5YrCancerDerived_Inh
1172	ALL	353215.5	3792585	1.06E-07	6.5YrCancerDerived_Inh
1173	ALL	353240.5	3792585	1.10E-07	6.5YrCancerDerived_Inh

1174	ALL	353265.5	3792585	1.15E-07	6.5YrCancerDerived_Inh
1175	ALL	353290.5	3792585	1.19E-07	6.5YrCancerDerived_Inh
1176	ALL	353315.5	3792585	1.24E-07	6.5YrCancerDerived_Inh
1177	ALL	353340.5	3792585	1.29E-07	6.5YrCancerDerived_Inh
1178	ALL	353365.5	3792585	1.34E-07	6.5YrCancerDerived_Inh
1179	ALL	353390.5	3792585	1.40E-07	6.5YrCancerDerived_Inh
1180	ALL	353415.5	3792585	1.47E-07	6.5YrCancerDerived_Inh
1181	ALL	353440.5	3792585	1.54E-07	6.5YrCancerDerived_Inh
1182	ALL	353465.5	3792585	1.62E-07	6.5YrCancerDerived_Inh
1183	ALL	353490.5	3792585	1.71E-07	6.5YrCancerDerived_Inh
1184	ALL	353515.5	3792585	1.81E-07	6.5YrCancerDerived_Inh
1185	ALL	353540.5	3792585	1.92E-07	6.5YrCancerDerived_Inh
1186	ALL	353565.5	3792585	2.05E-07	6.5YrCancerDerived_Inh
1187	ALL	353590.5	3792585	2.21E-07	6.5YrCancerDerived_Inh
1188	ALL	353615.5	3792585	2.39E-07	6.5YrCancerDerived_Inh
1189	ALL	353640.5	3792585	2.61E-07	6.5YrCancerDerived_Inh
1190	ALL	353665.5	3792585	2.88E-07	6.5YrCancerDerived_Inh
1191	ALL	353690.5	3792585	3.24E-07	6.5YrCancerDerived_Inh
1192	ALL	353715.5	3792585	3.69E-07	6.5YrCancerDerived_Inh
1193	ALL	353015.5	3792610	8.46E-08	6.5YrCancerDerived_Inh
1194	ALL	353040.5	3792610	8.72E-08	6.5YrCancerDerived_Inh
1195	ALL	353065.5	3792610	8.98E-08	6.5YrCancerDerived_Inh
1196	ALL	353090.5	3792610	9.26E-08	6.5YrCancerDerived_Inh
1197	ALL	353115.5	3792610	9.59E-08	6.5YrCancerDerived_Inh
1198	ALL	353140.5	3792610	9.90E-08	6.5YrCancerDerived_Inh
1199	ALL	353165.5	3792610	1.02E-07	6.5YrCancerDerived_Inh
1200	ALL	353190.5	3792610	1.05E-07	6.5YrCancerDerived_Inh
1201	ALL	353215.5	3792610	1.10E-07	6.5YrCancerDerived_Inh
1202	ALL	353240.5	3792610	1.14E-07	6.5YrCancerDerived_Inh
1203	ALL	353265.5	3792610	1.18E-07	6.5YrCancerDerived_Inh
1204	ALL	353290.5	3792610	1.23E-07	6.5YrCancerDerived_Inh
1205	ALL	353315.5	3792610	1.28E-07	6.5YrCancerDerived_Inh
1206	ALL	353340.5	3792610	1.34E-07	6.5YrCancerDerived_Inh
1207	ALL	353365.5	3792610	1.39E-07	6.5YrCancerDerived_Inh
1208	ALL	353390.5	3792610	1.46E-07	6.5YrCancerDerived_Inh
1209	ALL	353415.5	3792610	1.53E-07	6.5YrCancerDerived_Inh
1210	ALL	353440.5	3792610	1.61E-07	6.5YrCancerDerived_Inh
1211	ALL	353465.5	3792610	1.70E-07	6.5YrCancerDerived_Inh
1212	ALL	353490.5	3792610	1.80E-07	6.5YrCancerDerived_Inh
1213	ALL	353515.5	3792610	1.91E-07	6.5YrCancerDerived_Inh
1214	ALL	353540.5	3792610	2.04E-07	6.5YrCancerDerived_Inh
1215	ALL	353565.5	3792610	2.19E-07	6.5YrCancerDerived_Inh
1216	ALL	353590.5	3792610	2.38E-07	6.5YrCancerDerived_Inh
1217	ALL	353615.5	3792610	2.60E-07	6.5YrCancerDerived_Inh
1218	ALL	353640.5	3792610	2.89E-07	6.5YrCancerDerived_Inh
1219	ALL	353665.5	3792610	3.26E-07	6.5YrCancerDerived_Inh
1220	ALL	353690.5	3792610	3.81E-07	6.5YrCancerDerived_Inh

1221	ALL	353715.5	3792610	4.63E-07	6.5YrCancerDerived_Inh
1222	ALL	353015.5	3792635	8.65E-08	6.5YrCancerDerived_Inh
1223	ALL	353040.5	3792635	8.92E-08	6.5YrCancerDerived_Inh
1224	ALL	353065.5	3792635	9.21E-08	6.5YrCancerDerived_Inh
1225	ALL	353090.5	3792635	9.51E-08	6.5YrCancerDerived_Inh
1226	ALL	353115.5	3792635	9.83E-08	6.5YrCancerDerived_Inh
1227	ALL	353140.5	3792635	1.02E-07	6.5YrCancerDerived_Inh
1228	ALL	353165.5	3792635	1.05E-07	6.5YrCancerDerived_Inh
1229	ALL	353190.5	3792635	1.09E-07	6.5YrCancerDerived_Inh
1230	ALL	353215.5	3792635	1.13E-07	6.5YrCancerDerived_Inh
1231	ALL	353240.5	3792635	1.17E-07	6.5YrCancerDerived_Inh
1232	ALL	353265.5	3792635	1.22E-07	6.5YrCancerDerived_Inh
1233	ALL	353290.5	3792635	1.27E-07	6.5YrCancerDerived_Inh
1234	ALL	353315.5	3792635	1.33E-07	6.5YrCancerDerived_Inh
1235	ALL	353340.5	3792635	1.38E-07	6.5YrCancerDerived_Inh
1236	ALL	353365.5	3792635	1.45E-07	6.5YrCancerDerived_Inh
1237	ALL	353390.5	3792635	1.52E-07	6.5YrCancerDerived_Inh
1238	ALL	353415.5	3792635	1.60E-07	6.5YrCancerDerived_Inh
1239	ALL	353440.5	3792635	1.69E-07	6.5YrCancerDerived_Inh
1240	ALL	353465.5	3792635	1.78E-07	6.5YrCancerDerived_Inh
1241	ALL	353490.5	3792635	1.89E-07	6.5YrCancerDerived_Inh
1242	ALL	353515.5	3792635	2.02E-07	6.5YrCancerDerived_Inh
1243	ALL	353540.5	3792635	2.17E-07	6.5YrCancerDerived_Inh
1244	ALL	353565.5	3792635	2.35E-07	6.5YrCancerDerived_Inh
1245	ALL	353590.5	3792635	2.57E-07	6.5YrCancerDerived_Inh
1246	ALL	353615.5	3792635	2.84E-07	6.5YrCancerDerived_Inh
1247	ALL	353640.5	3792635	3.21E-07	6.5YrCancerDerived_Inh
1248	ALL	353665.5	3792635	3.73E-07	6.5YrCancerDerived_Inh
1249	ALL	353690.5	3792635	4.55E-07	6.5YrCancerDerived_Inh
1250	ALL	353715.5	3792635	6.04E-07	6.5YrCancerDerived_Inh
1251	ALL	353015.5	3792660	8.86E-08	6.5YrCancerDerived_Inh
1252	ALL	353040.5	3792660	9.14E-08	6.5YrCancerDerived_Inh
1253	ALL	353065.5	3792660	9.45E-08	6.5YrCancerDerived_Inh
1254	ALL	353090.5	3792660	9.76E-08	6.5YrCancerDerived_Inh
1255	ALL	353115.5	3792660	1.01E-07	6.5YrCancerDerived_Inh
1256	ALL	353140.5	3792660	1.04E-07	6.5YrCancerDerived_Inh
1257	ALL	353165.5	3792660	1.08E-07	6.5YrCancerDerived_Inh
1258	ALL	353190.5	3792660	1.12E-07	6.5YrCancerDerived_Inh
1259	ALL	353215.5	3792660	1.16E-07	6.5YrCancerDerived_Inh
1260	ALL	353240.5	3792660	1.21E-07	6.5YrCancerDerived_Inh
1261	ALL	353265.5	3792660	1.26E-07	6.5YrCancerDerived_Inh
1262	ALL	353290.5	3792660	1.32E-07	6.5YrCancerDerived_Inh
1263	ALL	353315.5	3792660	1.37E-07	6.5YrCancerDerived_Inh
1264	ALL	353340.5	3792660	1.43E-07	6.5YrCancerDerived_Inh
1265	ALL	353365.5	3792660	1.51E-07	6.5YrCancerDerived_Inh
1266	ALL	353390.5	3792660	1.58E-07	6.5YrCancerDerived_Inh
1267	ALL	353415.5	3792660	1.67E-07	6.5YrCancerDerived_Inh

1268	ALL	353440.5	3792660	1.76E-07	6.5YrCancerDerived_Inh
1269	ALL	353465.5	3792660	1.87E-07	6.5YrCancerDerived_Inh
1270	ALL	353490.5	3792660	1.99E-07	6.5YrCancerDerived_Inh
1271	ALL	353515.5	3792660	2.14E-07	6.5YrCancerDerived_Inh
1272	ALL	353540.5	3792660	2.31E-07	6.5YrCancerDerived_Inh
1273	ALL	353565.5	3792660	2.52E-07	6.5YrCancerDerived_Inh
1274	ALL	353590.5	3792660	2.77E-07	6.5YrCancerDerived_Inh
1275	ALL	353615.5	3792660	3.11E-07	6.5YrCancerDerived_Inh
1276	ALL	353640.5	3792660	3.57E-07	6.5YrCancerDerived_Inh
1277	ALL	353665.5	3792660	4.26E-07	6.5YrCancerDerived_Inh
1278	ALL	353690.5	3792660	5.42E-07	6.5YrCancerDerived_Inh
1279	ALL	353715.5	3792660	7.76E-07	6.5YrCancerDerived_Inh
1280	ALL	353015.5	3792685	9.08E-08	6.5YrCancerDerived_Inh
1281	ALL	353040.5	3792685	9.37E-08	6.5YrCancerDerived_Inh
1282	ALL	353065.5	3792685	9.69E-08	6.5YrCancerDerived_Inh
1283	ALL	353090.5	3792685	1.00E-07	6.5YrCancerDerived_Inh
1284	ALL	353115.5	3792685	1.04E-07	6.5YrCancerDerived_Inh
1285	ALL	353140.5	3792685	1.07E-07	6.5YrCancerDerived_Inh
1286	ALL	353165.5	3792685	1.11E-07	6.5YrCancerDerived_Inh
1287	ALL	353190.5	3792685	1.15E-07	6.5YrCancerDerived_Inh
1288	ALL	353215.5	3792685	1.20E-07	6.5YrCancerDerived_Inh
1289	ALL	353240.5	3792685	1.25E-07	6.5YrCancerDerived_Inh
1290	ALL	353265.5	3792685	1.30E-07	6.5YrCancerDerived_Inh
1291	ALL	353290.5	3792685	1.36E-07	6.5YrCancerDerived_Inh
1292	ALL	353315.5	3792685	1.42E-07	6.5YrCancerDerived_Inh
1293	ALL	353340.5	3792685	1.49E-07	6.5YrCancerDerived_Inh
1294	ALL	353365.5	3792685	1.56E-07	6.5YrCancerDerived_Inh
1295	ALL	353390.5	3792685	1.65E-07	6.5YrCancerDerived_Inh
1296	ALL	353415.5	3792685	1.74E-07	6.5YrCancerDerived_Inh
1297	ALL	353440.5	3792685	1.85E-07	6.5YrCancerDerived_Inh
1298	ALL	353465.5	3792685	1.96E-07	6.5YrCancerDerived_Inh
1299	ALL	353490.5	3792685	2.10E-07	6.5YrCancerDerived_Inh
1300	ALL	353515.5	3792685	2.26E-07	6.5YrCancerDerived_Inh
1301	ALL	353540.5	3792685	2.45E-07	6.5YrCancerDerived_Inh
1302	ALL	353565.5	3792685	2.69E-07	6.5YrCancerDerived_Inh
1303	ALL	353590.5	3792685	2.98E-07	6.5YrCancerDerived_Inh
1304	ALL	353615.5	3792685	3.38E-07	6.5YrCancerDerived_Inh
1305	ALL	353640.5	3792685	3.93E-07	6.5YrCancerDerived_Inh
1306	ALL	353665.5	3792685	4.78E-07	6.5YrCancerDerived_Inh
1307	ALL	353690.5	3792685	6.21E-07	6.5YrCancerDerived_Inh
1308	ALL	353715.5	3792685	9.01E-07	6.5YrCancerDerived_Inh
1309	ALL	353015.5	3792710	9.27E-08	6.5YrCancerDerived_Inh
1310	ALL	353040.5	3792710	9.59E-08	6.5YrCancerDerived_Inh
1311	ALL	353065.5	3792710	9.92E-08	6.5YrCancerDerived_Inh
1312	ALL	353090.5	3792710	1.03E-07	6.5YrCancerDerived_Inh
1313	ALL	353115.5	3792710	1.06E-07	6.5YrCancerDerived_Inh
1314	ALL	353140.5	3792710	1.10E-07	6.5YrCancerDerived_Inh

1315	ALL	353165.5	3792710	1.14E-07	6.5YrCancerDerived_Inh
1316	ALL	353190.5	3792710	1.17E-07	6.5YrCancerDerived_Inh
1317	ALL	353215.5	3792710	1.23E-07	6.5YrCancerDerived_Inh
1318	ALL	353240.5	3792710	1.29E-07	6.5YrCancerDerived_Inh
1319	ALL	353265.5	3792710	1.35E-07	6.5YrCancerDerived_Inh
1320	ALL	353290.5	3792710	1.41E-07	6.5YrCancerDerived_Inh
1321	ALL	353315.5	3792710	1.47E-07	6.5YrCancerDerived_Inh
1322	ALL	353340.5	3792710	1.54E-07	6.5YrCancerDerived_Inh
1323	ALL	353365.5	3792710	1.62E-07	6.5YrCancerDerived_Inh
1324	ALL	353390.5	3792710	1.72E-07	6.5YrCancerDerived_Inh
1325	ALL	353415.5	3792710	1.82E-07	6.5YrCancerDerived_Inh
1326	ALL	353440.5	3792710	1.93E-07	6.5YrCancerDerived_Inh
1327	ALL	353465.5	3792710	2.06E-07	6.5YrCancerDerived_Inh
1328	ALL	353490.5	3792710	2.21E-07	6.5YrCancerDerived_Inh
1329	ALL	353515.5	3792710	2.39E-07	6.5YrCancerDerived_Inh
1330	ALL	353540.5	3792710	2.60E-07	6.5YrCancerDerived_Inh
1331	ALL	353565.5	3792710	2.86E-07	6.5YrCancerDerived_Inh
1332	ALL	353590.5	3792710	3.20E-07	6.5YrCancerDerived_Inh
1333	ALL	353615.5	3792710	3.64E-07	6.5YrCancerDerived_Inh
1334	ALL	353640.5	3792710	4.27E-07	6.5YrCancerDerived_Inh
1335	ALL	353665.5	3792710	5.23E-07	6.5YrCancerDerived_Inh
1336	ALL	353690.5	3792710	6.82E-07	6.5YrCancerDerived_Inh
1337	ALL	353715.5	3792710	9.77E-07	6.5YrCancerDerived_Inh
1338	ALL	353015.5	3792735	9.46E-08	6.5YrCancerDerived_Inh
1339	ALL	353040.5	3792735	9.78E-08	6.5YrCancerDerived_Inh
1340	ALL	353065.5	3792735	1.01E-07	6.5YrCancerDerived_Inh
1341	ALL	353090.5	3792735	1.05E-07	6.5YrCancerDerived_Inh
1342	ALL	353115.5	3792735	1.09E-07	6.5YrCancerDerived_Inh
1343	ALL	353140.5	3792735	1.13E-07	6.5YrCancerDerived_Inh
1344	ALL	353165.5	3792735	1.18E-07	6.5YrCancerDerived_Inh
1345	ALL	353190.5	3792735	1.21E-07	6.5YrCancerDerived_Inh
1346	ALL	353215.5	3792735	1.27E-07	6.5YrCancerDerived_Inh
1347	ALL	353240.5	3792735	1.33E-07	6.5YrCancerDerived_Inh
1348	ALL	353265.5	3792735	1.39E-07	6.5YrCancerDerived_Inh
1349	ALL	353290.5	3792735	1.45E-07	6.5YrCancerDerived_Inh
1350	ALL	353315.5	3792735	1.52E-07	6.5YrCancerDerived_Inh
1351	ALL	353340.5	3792735	1.60E-07	6.5YrCancerDerived_Inh
1352	ALL	353365.5	3792735	1.69E-07	6.5YrCancerDerived_Inh
1353	ALL	353390.5	3792735	1.78E-07	6.5YrCancerDerived_Inh
1354	ALL	353415.5	3792735	1.89E-07	6.5YrCancerDerived_Inh
1355	ALL	353440.5	3792735	2.01E-07	6.5YrCancerDerived_Inh
1356	ALL	353465.5	3792735	2.15E-07	6.5YrCancerDerived_Inh
1357	ALL	353490.5	3792735	2.32E-07	6.5YrCancerDerived_Inh
1358	ALL	353515.5	3792735	2.51E-07	6.5YrCancerDerived_Inh
1359	ALL	353540.5	3792735	2.75E-07	6.5YrCancerDerived_Inh
1360	ALL	353565.5	3792735	3.03E-07	6.5YrCancerDerived_Inh
1361	ALL	353590.5	3792735	3.40E-07	6.5YrCancerDerived_Inh

1362	ALL	353615.5	3792735	3.89E-07	6.5YrCancerDerived_Inh
1363	ALL	353640.5	3792735	4.57E-07	6.5YrCancerDerived_Inh
1364	ALL	353665.5	3792735	5.60E-07	6.5YrCancerDerived_Inh
1365	ALL	353690.5	3792735	7.25E-07	6.5YrCancerDerived_Inh
1366	ALL	353715.5	3792735	1.02E-06	6.5YrCancerDerived_Inh
1367	ALL	353015.5	3792760	9.68E-08	6.5YrCancerDerived_Inh
1368	ALL	353040.5	3792760	1.00E-07	6.5YrCancerDerived_Inh
1369	ALL	353065.5	3792760	1.04E-07	6.5YrCancerDerived_Inh
1370	ALL	353090.5	3792760	1.08E-07	6.5YrCancerDerived_Inh
1371	ALL	353115.5	3792760	1.12E-07	6.5YrCancerDerived_Inh
1372	ALL	353140.5	3792760	1.16E-07	6.5YrCancerDerived_Inh
1373	ALL	353165.5	3792760	1.21E-07	6.5YrCancerDerived_Inh
1374	ALL	353190.5	3792760	1.25E-07	6.5YrCancerDerived_Inh
1375	ALL	353215.5	3792760	1.31E-07	6.5YrCancerDerived_Inh
1376	ALL	353240.5	3792760	1.37E-07	6.5YrCancerDerived_Inh
1377	ALL	353265.5	3792760	1.43E-07	6.5YrCancerDerived_Inh
1378	ALL	353290.5	3792760	1.50E-07	6.5YrCancerDerived_Inh
1379	ALL	353315.5	3792760	1.58E-07	6.5YrCancerDerived_Inh
1380	ALL	353340.5	3792760	1.65E-07	6.5YrCancerDerived_Inh
1381	ALL	353365.5	3792760	1.74E-07	6.5YrCancerDerived_Inh
1382	ALL	353390.5	3792760	1.85E-07	6.5YrCancerDerived_Inh
1383	ALL	353415.5	3792760	1.96E-07	6.5YrCancerDerived_Inh
1384	ALL	353440.5	3792760	2.09E-07	6.5YrCancerDerived_Inh
1385	ALL	353465.5	3792760	2.25E-07	6.5YrCancerDerived_Inh
1386	ALL	353490.5	3792760	2.43E-07	6.5YrCancerDerived_Inh
1387	ALL	353515.5	3792760	2.64E-07	6.5YrCancerDerived_Inh
1388	ALL	353540.5	3792760	2.89E-07	6.5YrCancerDerived_Inh
1389	ALL	353565.5	3792760	3.20E-07	6.5YrCancerDerived_Inh
1390	ALL	353590.5	3792760	3.59E-07	6.5YrCancerDerived_Inh
1391	ALL	353615.5	3792760	4.11E-07	6.5YrCancerDerived_Inh
1392	ALL	353640.5	3792760	4.83E-07	6.5YrCancerDerived_Inh
1393	ALL	353665.5	3792760	5.88E-07	6.5YrCancerDerived_Inh
1394	ALL	353690.5	3792760	7.55E-07	6.5YrCancerDerived_Inh
1395	ALL	353715.5	3792760	1.05E-06	6.5YrCancerDerived_Inh
1396	ALL	353015.5	3792785	9.90E-08	6.5YrCancerDerived_Inh
1397	ALL	353040.5	3792785	1.03E-07	6.5YrCancerDerived_Inh
1398	ALL	353065.5	3792785	1.06E-07	6.5YrCancerDerived_Inh
1399	ALL	353090.5	3792785	1.10E-07	6.5YrCancerDerived_Inh
1400	ALL	353115.5	3792785	1.15E-07	6.5YrCancerDerived_Inh
1401	ALL	353140.5	3792785	1.19E-07	6.5YrCancerDerived_Inh
1402	ALL	353165.5	3792785	1.24E-07	6.5YrCancerDerived_Inh
1403	ALL	353190.5	3792785	1.29E-07	6.5YrCancerDerived_Inh
1404	ALL	353215.5	3792785	1.34E-07	6.5YrCancerDerived_Inh
1405	ALL	353240.5	3792785	1.41E-07	6.5YrCancerDerived_Inh
1406	ALL	353265.5	3792785	1.48E-07	6.5YrCancerDerived_Inh
1407	ALL	353290.5	3792785	1.55E-07	6.5YrCancerDerived_Inh
1408	ALL	353315.5	3792785	1.63E-07	6.5YrCancerDerived_Inh

1409	ALL	353340.5	3792785	1.71E-07	6.5YrCancerDerived_Inh
1410	ALL	353365.5	3792785	1.81E-07	6.5YrCancerDerived_Inh
1411	ALL	353390.5	3792785	1.92E-07	6.5YrCancerDerived_Inh
1412	ALL	353415.5	3792785	2.04E-07	6.5YrCancerDerived_Inh
1413	ALL	353440.5	3792785	2.18E-07	6.5YrCancerDerived_Inh
1414	ALL	353465.5	3792785	2.35E-07	6.5YrCancerDerived_Inh
1415	ALL	353490.5	3792785	2.54E-07	6.5YrCancerDerived_Inh
1416	ALL	353515.5	3792785	2.76E-07	6.5YrCancerDerived_Inh
1417	ALL	353540.5	3792785	3.02E-07	6.5YrCancerDerived_Inh
1418	ALL	353565.5	3792785	3.35E-07	6.5YrCancerDerived_Inh
1419	ALL	353590.5	3792785	3.76E-07	6.5YrCancerDerived_Inh
1420	ALL	353615.5	3792785	4.30E-07	6.5YrCancerDerived_Inh
1421	ALL	353640.5	3792785	5.05E-07	6.5YrCancerDerived_Inh
1422	ALL	353665.5	3792785	6.12E-07	6.5YrCancerDerived_Inh
1423	ALL	353690.5	3792785	7.78E-07	6.5YrCancerDerived_Inh
1424	ALL	353715.5	3792785	1.07E-06	6.5YrCancerDerived_Inh
1425	ALL	353015.5	3792810	1.01E-07	6.5YrCancerDerived_Inh
1426	ALL	353040.5	3792810	1.05E-07	6.5YrCancerDerived_Inh
1427	ALL	353065.5	3792810	1.09E-07	6.5YrCancerDerived_Inh
1428	ALL	353090.5	3792810	1.13E-07	6.5YrCancerDerived_Inh
1429	ALL	353115.5	3792810	1.18E-07	6.5YrCancerDerived_Inh
1430	ALL	353140.5	3792810	1.23E-07	6.5YrCancerDerived_Inh
1431	ALL	353165.5	3792810	1.28E-07	6.5YrCancerDerived_Inh
1432	ALL	353190.5	3792810	1.33E-07	6.5YrCancerDerived_Inh
1433	ALL	353215.5	3792810	1.38E-07	6.5YrCancerDerived_Inh
1434	ALL	353240.5	3792810	1.44E-07	6.5YrCancerDerived_Inh
1435	ALL	353265.5	3792810	1.52E-07	6.5YrCancerDerived_Inh
1436	ALL	353290.5	3792810	1.60E-07	6.5YrCancerDerived_Inh
1437	ALL	353315.5	3792810	1.68E-07	6.5YrCancerDerived_Inh
1438	ALL	353340.5	3792810	1.77E-07	6.5YrCancerDerived_Inh
1439	ALL	353365.5	3792810	1.87E-07	6.5YrCancerDerived_Inh
1440	ALL	353390.5	3792810	1.99E-07	6.5YrCancerDerived_Inh
1441	ALL	353415.5	3792810	2.12E-07	6.5YrCancerDerived_Inh
1442	ALL	353440.5	3792810	2.26E-07	6.5YrCancerDerived_Inh
1443	ALL	353465.5	3792810	2.43E-07	6.5YrCancerDerived_Inh
1444	ALL	353490.5	3792810	2.64E-07	6.5YrCancerDerived_Inh
1445	ALL	353515.5	3792810	2.87E-07	6.5YrCancerDerived_Inh
1446	ALL	353540.5	3792810	3.15E-07	6.5YrCancerDerived_Inh
1447	ALL	353565.5	3792810	3.49E-07	6.5YrCancerDerived_Inh
1448	ALL	353590.5	3792810	3.92E-07	6.5YrCancerDerived_Inh
1449	ALL	353615.5	3792810	4.48E-07	6.5YrCancerDerived_Inh
1450	ALL	353640.5	3792810	5.23E-07	6.5YrCancerDerived_Inh
1451	ALL	353665.5	3792810	6.31E-07	6.5YrCancerDerived_Inh
1452	ALL	353690.5	3792810	7.96E-07	6.5YrCancerDerived_Inh
1453	ALL	353715.5	3792810	1.09E-06	6.5YrCancerDerived_Inh
1454	ALL	353015.5	3792835	1.04E-07	6.5YrCancerDerived_Inh
1455	ALL	353040.5	3792835	1.08E-07	6.5YrCancerDerived_Inh

1456	ALL	353065.5	3792835	1.11E-07	6.5YrCancerDerived_Inh
1457	ALL	353090.5	3792835	1.16E-07	6.5YrCancerDerived_Inh
1458	ALL	353115.5	3792835	1.21E-07	6.5YrCancerDerived_Inh
1459	ALL	353140.5	3792835	1.26E-07	6.5YrCancerDerived_Inh
1460	ALL	353165.5	3792835	1.31E-07	6.5YrCancerDerived_Inh
1461	ALL	353190.5	3792835	1.37E-07	6.5YrCancerDerived_Inh
1462	ALL	353215.5	3792835	1.43E-07	6.5YrCancerDerived_Inh
1463	ALL	353240.5	3792835	1.48E-07	6.5YrCancerDerived_Inh
1464	ALL	353265.5	3792835	1.56E-07	6.5YrCancerDerived_Inh
1465	ALL	353290.5	3792835	1.65E-07	6.5YrCancerDerived_Inh
1466	ALL	353315.5	3792835	1.74E-07	6.5YrCancerDerived_Inh
1467	ALL	353340.5	3792835	1.83E-07	6.5YrCancerDerived_Inh
1468	ALL	353365.5	3792835	1.94E-07	6.5YrCancerDerived_Inh
1469	ALL	353390.5	3792835	2.06E-07	6.5YrCancerDerived_Inh
1470	ALL	353415.5	3792835	2.19E-07	6.5YrCancerDerived_Inh
1471	ALL	353440.5	3792835	2.35E-07	6.5YrCancerDerived_Inh
1472	ALL	353465.5	3792835	2.52E-07	6.5YrCancerDerived_Inh
1473	ALL	353490.5	3792835	2.73E-07	6.5YrCancerDerived_Inh
1474	ALL	353515.5	3792835	2.98E-07	6.5YrCancerDerived_Inh
1475	ALL	353540.5	3792835	3.27E-07	6.5YrCancerDerived_Inh
1476	ALL	353565.5	3792835	3.63E-07	6.5YrCancerDerived_Inh
1477	ALL	353590.5	3792835	4.07E-07	6.5YrCancerDerived_Inh
1478	ALL	353615.5	3792835	4.64E-07	6.5YrCancerDerived_Inh
1479	ALL	353640.5	3792835	5.40E-07	6.5YrCancerDerived_Inh
1480	ALL	353665.5	3792835	6.48E-07	6.5YrCancerDerived_Inh
1481	ALL	353690.5	3792835	8.12E-07	6.5YrCancerDerived_Inh
1482	ALL	353715.5	3792835	1.10E-06	6.5YrCancerDerived_Inh
1483	ALL	353015.5	3792860	1.06E-07	6.5YrCancerDerived_Inh
1484	ALL	353040.5	3792860	1.10E-07	6.5YrCancerDerived_Inh
1485	ALL	353065.5	3792860	1.14E-07	6.5YrCancerDerived_Inh
1486	ALL	353090.5	3792860	1.18E-07	6.5YrCancerDerived_Inh
1487	ALL	353115.5	3792860	1.24E-07	6.5YrCancerDerived_Inh
1488	ALL	353140.5	3792860	1.29E-07	6.5YrCancerDerived_Inh
1489	ALL	353165.5	3792860	1.35E-07	6.5YrCancerDerived_Inh
1490	ALL	353190.5	3792860	1.41E-07	6.5YrCancerDerived_Inh
1491	ALL	353215.5	3792860	1.47E-07	6.5YrCancerDerived_Inh
1492	ALL	353240.5	3792860	1.54E-07	6.5YrCancerDerived_Inh
1493	ALL	353265.5	3792860	1.60E-07	6.5YrCancerDerived_Inh
1494	ALL	353290.5	3792860	1.69E-07	6.5YrCancerDerived_Inh
1495	ALL	353315.5	3792860	1.79E-07	6.5YrCancerDerived_Inh
1496	ALL	353340.5	3792860	1.89E-07	6.5YrCancerDerived_Inh
1497	ALL	353365.5	3792860	2.00E-07	6.5YrCancerDerived_Inh
1498	ALL	353390.5	3792860	2.13E-07	6.5YrCancerDerived_Inh
1499	ALL	353415.5	3792860	2.27E-07	6.5YrCancerDerived_Inh
1500	ALL	353440.5	3792860	2.43E-07	6.5YrCancerDerived_Inh
1501	ALL	353465.5	3792860	2.61E-07	6.5YrCancerDerived_Inh
1502	ALL	353490.5	3792860	2.83E-07	6.5YrCancerDerived_Inh

1503	ALL	353515.5	3792860	3.08E-07	6.5YrCancerDerived_Inh
1504	ALL	353540.5	3792860	3.39E-07	6.5YrCancerDerived_Inh
1505	ALL	353565.5	3792860	3.75E-07	6.5YrCancerDerived_Inh
1506	ALL	353590.5	3792860	4.21E-07	6.5YrCancerDerived_Inh
1507	ALL	353615.5	3792860	4.79E-07	6.5YrCancerDerived_Inh
1508	ALL	353640.5	3792860	5.56E-07	6.5YrCancerDerived_Inh
1509	ALL	353665.5	3792860	6.64E-07	6.5YrCancerDerived_Inh
1510	ALL	353690.5	3792860	8.27E-07	6.5YrCancerDerived_Inh
1511	ALL	353715.5	3792860	1.11E-06	6.5YrCancerDerived_Inh
1512	ALL	353015.5	3792885	1.08E-07	6.5YrCancerDerived_Inh
1513	ALL	353040.5	3792885	1.12E-07	6.5YrCancerDerived_Inh
1514	ALL	353065.5	3792885	1.16E-07	6.5YrCancerDerived_Inh
1515	ALL	353090.5	3792885	1.21E-07	6.5YrCancerDerived_Inh
1516	ALL	353115.5	3792885	1.27E-07	6.5YrCancerDerived_Inh
1517	ALL	353140.5	3792885	1.32E-07	6.5YrCancerDerived_Inh
1518	ALL	353165.5	3792885	1.38E-07	6.5YrCancerDerived_Inh
1519	ALL	353190.5	3792885	1.44E-07	6.5YrCancerDerived_Inh
1520	ALL	353215.5	3792885	1.51E-07	6.5YrCancerDerived_Inh
1521	ALL	353240.5	3792885	1.59E-07	6.5YrCancerDerived_Inh
1522	ALL	353265.5	3792885	1.66E-07	6.5YrCancerDerived_Inh
1523	ALL	353290.5	3792885	1.73E-07	6.5YrCancerDerived_Inh
1524	ALL	353315.5	3792885	1.83E-07	6.5YrCancerDerived_Inh
1525	ALL	353340.5	3792885	1.95E-07	6.5YrCancerDerived_Inh
1526	ALL	353365.5	3792885	2.06E-07	6.5YrCancerDerived_Inh
1527	ALL	353390.5	3792885	2.19E-07	6.5YrCancerDerived_Inh
1528	ALL	353415.5	3792885	2.34E-07	6.5YrCancerDerived_Inh
1529	ALL	353440.5	3792885	2.51E-07	6.5YrCancerDerived_Inh
1530	ALL	353465.5	3792885	2.70E-07	6.5YrCancerDerived_Inh
1531	ALL	353490.5	3792885	2.92E-07	6.5YrCancerDerived_Inh
1532	ALL	353515.5	3792885	3.18E-07	6.5YrCancerDerived_Inh
1533	ALL	353540.5	3792885	3.50E-07	6.5YrCancerDerived_Inh
1534	ALL	353565.5	3792885	3.87E-07	6.5YrCancerDerived_Inh
1535	ALL	353590.5	3792885	4.34E-07	6.5YrCancerDerived_Inh
1536	ALL	353615.5	3792885	4.92E-07	6.5YrCancerDerived_Inh
1537	ALL	353640.5	3792885	5.69E-07	6.5YrCancerDerived_Inh
1538	ALL	353665.5	3792885	6.78E-07	6.5YrCancerDerived_Inh
1539	ALL	353690.5	3792885	8.43E-07	6.5YrCancerDerived_Inh
1540	ALL	353715.5	3792885	1.13E-06	6.5YrCancerDerived_Inh
1541	ALL	353015.5	3792910	1.11E-07	6.5YrCancerDerived_Inh
1542	ALL	353040.5	3792910	1.15E-07	6.5YrCancerDerived_Inh
1543	ALL	353065.5	3792910	1.19E-07	6.5YrCancerDerived_Inh
1544	ALL	353090.5	3792910	1.24E-07	6.5YrCancerDerived_Inh
1545	ALL	353115.5	3792910	1.29E-07	6.5YrCancerDerived_Inh
1546	ALL	353140.5	3792910	1.35E-07	6.5YrCancerDerived_Inh
1547	ALL	353165.5	3792910	1.41E-07	6.5YrCancerDerived_Inh
1548	ALL	353190.5	3792910	1.47E-07	6.5YrCancerDerived_Inh
1549	ALL	353215.5	3792910	1.55E-07	6.5YrCancerDerived_Inh

1550	ALL	353240.5	3792910	1.63E-07	6.5YrCancerDerived_Inh
1551	ALL	353265.5	3792910	1.71E-07	6.5YrCancerDerived_Inh
1552	ALL	353290.5	3792910	1.80E-07	6.5YrCancerDerived_Inh
1553	ALL	353315.5	3792910	1.88E-07	6.5YrCancerDerived_Inh
1554	ALL	353340.5	3792910	1.99E-07	6.5YrCancerDerived_Inh
1555	ALL	353365.5	3792910	2.13E-07	6.5YrCancerDerived_Inh
1556	ALL	353390.5	3792910	2.26E-07	6.5YrCancerDerived_Inh
1557	ALL	353415.5	3792910	2.41E-07	6.5YrCancerDerived_Inh
1558	ALL	353440.5	3792910	2.59E-07	6.5YrCancerDerived_Inh
1559	ALL	353465.5	3792910	2.78E-07	6.5YrCancerDerived_Inh
1560	ALL	353490.5	3792910	3.01E-07	6.5YrCancerDerived_Inh
1561	ALL	353515.5	3792910	3.27E-07	6.5YrCancerDerived_Inh
1562	ALL	353540.5	3792910	3.59E-07	6.5YrCancerDerived_Inh
1563	ALL	353565.5	3792910	3.99E-07	6.5YrCancerDerived_Inh
1564	ALL	353590.5	3792910	4.46E-07	6.5YrCancerDerived_Inh
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1566	ALL	353640.5	3792910	5.82E-07	6.5YrCancerDerived_Inh
1567	ALL	353665.5	3792910	6.89E-07	6.5YrCancerDerived_Inh
1568	ALL	353690.5	3792910	8.54E-07	6.5YrCancerDerived_Inh
1569	ALL	353715.5	3792910	1.14E-06	6.5YrCancerDerived_Inh
1570	ALL	353015.5	3792935	1.13E-07	6.5YrCancerDerived_Inh
1571	ALL	353040.5	3792935	1.17E-07	6.5YrCancerDerived_Inh
1572	ALL	353065.5	3792935	1.21E-07	6.5YrCancerDerived_Inh
1573	ALL	353090.5	3792935	1.27E-07	6.5YrCancerDerived_Inh
1574	ALL	353115.5	3792935	1.32E-07	6.5YrCancerDerived_Inh
1575	ALL	353140.5	3792935	1.38E-07	6.5YrCancerDerived_Inh
1576	ALL	353165.5	3792935	1.44E-07	6.5YrCancerDerived_Inh
1577	ALL	353190.5	3792935	1.51E-07	6.5YrCancerDerived_Inh
1578	ALL	353215.5	3792935	1.58E-07	6.5YrCancerDerived_Inh
1579	ALL	353240.5	3792935	1.66E-07	6.5YrCancerDerived_Inh
1580	ALL	353265.5	3792935	1.75E-07	6.5YrCancerDerived_Inh
1581	ALL	353290.5	3792935	1.85E-07	6.5YrCancerDerived_Inh
1582	ALL	353315.5	3792935	1.95E-07	6.5YrCancerDerived_Inh
1583	ALL	353340.5	3792935	2.05E-07	6.5YrCancerDerived_Inh
1584	ALL	353365.5	3792935	2.18E-07	6.5YrCancerDerived_Inh
1585	ALL	353390.5	3792935	2.33E-07	6.5YrCancerDerived_Inh
1586	ALL	353415.5	3792935	2.48E-07	6.5YrCancerDerived_Inh
1587	ALL	353440.5	3792935	2.66E-07	6.5YrCancerDerived_Inh
1588	ALL	353465.5	3792935	2.87E-07	6.5YrCancerDerived_Inh
1589	ALL	353490.5	3792935	3.10E-07	6.5YrCancerDerived_Inh
1590	ALL	353515.5	3792935	3.37E-07	6.5YrCancerDerived_Inh
1591	ALL	353540.5	3792935	3.69E-07	6.5YrCancerDerived_Inh
1592	ALL	353565.5	3792935	4.09E-07	6.5YrCancerDerived_Inh
1593	ALL	353590.5	3792935	4.57E-07	6.5YrCancerDerived_Inh
1594	ALL	353615.5	3792935	5.16E-07	6.5YrCancerDerived_Inh
1595	ALL	353640.5	3792935	5.93E-07	6.5YrCancerDerived_Inh
1596	ALL	353665.5	3792935	7.00E-07	6.5YrCancerDerived_Inh

1597	ALL	353690.5	3792935	8.63E-07	6.5YrCancerDerived_Inh
1598	ALL	353715.5	3792935	1.15E-06	6.5YrCancerDerived_Inh
1599	ALL	353015.5	3792960	1.15E-07	6.5YrCancerDerived_Inh
1600	ALL	353040.5	3792960	1.19E-07	6.5YrCancerDerived_Inh
1601	ALL	353065.5	3792960	1.24E-07	6.5YrCancerDerived_Inh
1602	ALL	353090.5	3792960	1.29E-07	6.5YrCancerDerived_Inh
1603	ALL	353115.5	3792960	1.35E-07	6.5YrCancerDerived_Inh
1604	ALL	353140.5	3792960	1.41E-07	6.5YrCancerDerived_Inh
1605	ALL	353165.5	3792960	1.47E-07	6.5YrCancerDerived_Inh
1606	ALL	353190.5	3792960	1.54E-07	6.5YrCancerDerived_Inh
1607	ALL	353215.5	3792960	1.62E-07	6.5YrCancerDerived_Inh
1608	ALL	353240.5	3792960	1.70E-07	6.5YrCancerDerived_Inh
1609	ALL	353265.5	3792960	1.79E-07	6.5YrCancerDerived_Inh
1610	ALL	353290.5	3792960	1.89E-07	6.5YrCancerDerived_Inh
1611	ALL	353315.5	3792960	2.00E-07	6.5YrCancerDerived_Inh
1612	ALL	353340.5	3792960	2.11E-07	6.5YrCancerDerived_Inh
1613	ALL	353365.5	3792960	2.23E-07	6.5YrCancerDerived_Inh
1614	ALL	353390.5	3792960	2.38E-07	6.5YrCancerDerived_Inh
1615	ALL	353415.5	3792960	2.55E-07	6.5YrCancerDerived_Inh
1616	ALL	353440.5	3792960	2.74E-07	6.5YrCancerDerived_Inh
1617	ALL	353465.5	3792960	2.95E-07	6.5YrCancerDerived_Inh
1618	ALL	353490.5	3792960	3.19E-07	6.5YrCancerDerived_Inh
1619	ALL	353515.5	3792960	3.47E-07	6.5YrCancerDerived_Inh
1620	ALL	353540.5	3792960	3.80E-07	6.5YrCancerDerived_Inh
1621	ALL	353565.5	3792960	4.19E-07	6.5YrCancerDerived_Inh
1622	ALL	353590.5	3792960	4.67E-07	6.5YrCancerDerived_Inh
1623	ALL	353615.5	3792960	5.27E-07	6.5YrCancerDerived_Inh
1624	ALL	353640.5	3792960	6.04E-07	6.5YrCancerDerived_Inh
1625	ALL	353665.5	3792960	7.11E-07	6.5YrCancerDerived_Inh
1626	ALL	353690.5	3792960	8.74E-07	6.5YrCancerDerived_Inh
1627	ALL	353715.5	3792960	1.15E-06	6.5YrCancerDerived_Inh
1628	ALL	353015.5	3792985	1.17E-07	6.5YrCancerDerived_Inh
1629	ALL	353040.5	3792985	1.21E-07	6.5YrCancerDerived_Inh
1630	ALL	353065.5	3792985	1.26E-07	6.5YrCancerDerived_Inh
1631	ALL	353090.5	3792985	1.32E-07	6.5YrCancerDerived_Inh
1632	ALL	353115.5	3792985	1.37E-07	6.5YrCancerDerived_Inh
1633	ALL	353140.5	3792985	1.44E-07	6.5YrCancerDerived_Inh
1634	ALL	353165.5	3792985	1.50E-07	6.5YrCancerDerived_Inh
1635	ALL	353190.5	3792985	1.58E-07	6.5YrCancerDerived_Inh
1636	ALL	353215.5	3792985	1.65E-07	6.5YrCancerDerived_Inh
1637	ALL	353240.5	3792985	1.74E-07	6.5YrCancerDerived_Inh
1638	ALL	353265.5	3792985	1.84E-07	6.5YrCancerDerived_Inh
1639	ALL	353290.5	3792985	1.94E-07	6.5YrCancerDerived_Inh
1640	ALL	353315.5	3792985	2.05E-07	6.5YrCancerDerived_Inh
1641	ALL	353340.5	3792985	2.18E-07	6.5YrCancerDerived_Inh
1642	ALL	353365.5	3792985	2.29E-07	6.5YrCancerDerived_Inh
1643	ALL	353390.5	3792985	2.43E-07	6.5YrCancerDerived_Inh

1644	ALL	353415.5	3792985	2.62E-07	6.5YrCancerDerived_Inh
1645	ALL	353440.5	3792985	2.81E-07	6.5YrCancerDerived_Inh
1646	ALL	353465.5	3792985	3.03E-07	6.5YrCancerDerived_Inh
1647	ALL	353490.5	3792985	3.28E-07	6.5YrCancerDerived_Inh
1648	ALL	353515.5	3792985	3.57E-07	6.5YrCancerDerived_Inh
1649	ALL	353540.5	3792985	3.90E-07	6.5YrCancerDerived_Inh
1650	ALL	353565.5	3792985	4.29E-07	6.5YrCancerDerived_Inh
1651	ALL	353590.5	3792985	4.78E-07	6.5YrCancerDerived_Inh
1652	ALL	353615.5	3792985	5.39E-07	6.5YrCancerDerived_Inh
1653	ALL	353640.5	3792985	6.16E-07	6.5YrCancerDerived_Inh
1654	ALL	353665.5	3792985	7.25E-07	6.5YrCancerDerived_Inh
1655	ALL	353690.5	3792985	8.87E-07	6.5YrCancerDerived_Inh
1656	ALL	353715.5	3792985	1.16E-06	6.5YrCancerDerived_Inh
1657	ALL	353015.5	3793010	1.19E-07	6.5YrCancerDerived_Inh
1658	ALL	353040.5	3793010	1.24E-07	6.5YrCancerDerived_Inh
1659	ALL	353065.5	3793010	1.29E-07	6.5YrCancerDerived_Inh
1660	ALL	353090.5	3793010	1.34E-07	6.5YrCancerDerived_Inh
1661	ALL	353115.5	3793010	1.40E-07	6.5YrCancerDerived_Inh
1662	ALL	353140.5	3793010	1.47E-07	6.5YrCancerDerived_Inh
1663	ALL	353165.5	3793010	1.54E-07	6.5YrCancerDerived_Inh
1664	ALL	353190.5	3793010	1.61E-07	6.5YrCancerDerived_Inh
1665	ALL	353215.5	3793010	1.69E-07	6.5YrCancerDerived_Inh
1666	ALL	353240.5	3793010	1.78E-07	6.5YrCancerDerived_Inh
1667	ALL	353265.5	3793010	1.88E-07	6.5YrCancerDerived_Inh
1668	ALL	353290.5	3793010	1.99E-07	6.5YrCancerDerived_Inh
1669	ALL	353315.5	3793010	2.11E-07	6.5YrCancerDerived_Inh
1670	ALL	353340.5	3793010	2.23E-07	6.5YrCancerDerived_Inh
1671	ALL	353365.5	3793010	2.37E-07	6.5YrCancerDerived_Inh
1672	ALL	353390.5	3793010	2.50E-07	6.5YrCancerDerived_Inh
1673	ALL	353415.5	3793010	2.66E-07	6.5YrCancerDerived_Inh
1674	ALL	353440.5	3793010	2.88E-07	6.5YrCancerDerived_Inh
1675	ALL	353465.5	3793010	3.12E-07	6.5YrCancerDerived_Inh
1676	ALL	353490.5	3793010	3.38E-07	6.5YrCancerDerived_Inh
1677	ALL	353515.5	3793010	3.67E-07	6.5YrCancerDerived_Inh
1678	ALL	353540.5	3793010	4.00E-07	6.5YrCancerDerived_Inh
1679	ALL	353565.5	3793010	4.39E-07	6.5YrCancerDerived_Inh
1680	ALL	353590.5	3793010	4.88E-07	6.5YrCancerDerived_Inh
1681	ALL	353615.5	3793010	5.49E-07	6.5YrCancerDerived_Inh
1682	ALL	353640.5	3793010	6.29E-07	6.5YrCancerDerived_Inh
1683	ALL	353665.5	3793010	7.40E-07	6.5YrCancerDerived_Inh
1684	ALL	353690.5	3793010	9.00E-07	6.5YrCancerDerived_Inh
1685	ALL	353715.5	3793010	1.17E-06	6.5YrCancerDerived_Inh
1686	ALL	353015.5	3793035	1.21E-07	6.5YrCancerDerived_Inh
1687	ALL	353040.5	3793035	1.26E-07	6.5YrCancerDerived_Inh
1688	ALL	353065.5	3793035	1.32E-07	6.5YrCancerDerived_Inh
1689	ALL	353090.5	3793035	1.37E-07	6.5YrCancerDerived_Inh
1690	ALL	353115.5	3793035	1.43E-07	6.5YrCancerDerived_Inh

1691	ALL	353140.5	3793035	1.50E-07	6.5YrCancerDerived_Inh
1692	ALL	353165.5	3793035	1.57E-07	6.5YrCancerDerived_Inh
1693	ALL	353190.5	3793035	1.65E-07	6.5YrCancerDerived_Inh
1694	ALL	353215.5	3793035	1.73E-07	6.5YrCancerDerived_Inh
1695	ALL	353240.5	3793035	1.83E-07	6.5YrCancerDerived_Inh
1696	ALL	353265.5	3793035	1.93E-07	6.5YrCancerDerived_Inh
1697	ALL	353290.5	3793035	2.04E-07	6.5YrCancerDerived_Inh
1698	ALL	353315.5	3793035	2.16E-07	6.5YrCancerDerived_Inh
1699	ALL	353340.5	3793035	2.29E-07	6.5YrCancerDerived_Inh
1700	ALL	353365.5	3793035	2.43E-07	6.5YrCancerDerived_Inh
1701	ALL	353390.5	3793035	2.59E-07	6.5YrCancerDerived_Inh
1702	ALL	353415.5	3793035	2.74E-07	6.5YrCancerDerived_Inh
1703	ALL	353440.5	3793035	2.92E-07	6.5YrCancerDerived_Inh
1704	ALL	353465.5	3793035	3.17E-07	6.5YrCancerDerived_Inh
1705	ALL	353490.5	3793035	3.46E-07	6.5YrCancerDerived_Inh
1706	ALL	353515.5	3793035	3.76E-07	6.5YrCancerDerived_Inh
1707	ALL	353540.5	3793035	4.09E-07	6.5YrCancerDerived_Inh
1708	ALL	353565.5	3793035	4.48E-07	6.5YrCancerDerived_Inh
1709	ALL	353590.5	3793035	4.99E-07	6.5YrCancerDerived_Inh
1710	ALL	353615.5	3793035	5.61E-07	6.5YrCancerDerived_Inh
1711	ALL	353640.5	3793035	6.41E-07	6.5YrCancerDerived_Inh
1712	ALL	353665.5	3793035	7.48E-07	6.5YrCancerDerived_Inh
1713	ALL	353690.5	3793035	9.08E-07	6.5YrCancerDerived_Inh
1714	ALL	353715.5	3793035	1.18E-06	6.5YrCancerDerived_Inh
1715	ALL	353015.5	3793060	1.24E-07	6.5YrCancerDerived_Inh
1716	ALL	353040.5	3793060	1.29E-07	6.5YrCancerDerived_Inh
1717	ALL	353065.5	3793060	1.34E-07	6.5YrCancerDerived_Inh
1718	ALL	353090.5	3793060	1.40E-07	6.5YrCancerDerived_Inh
1719	ALL	353115.5	3793060	1.46E-07	6.5YrCancerDerived_Inh
1720	ALL	353140.5	3793060	1.53E-07	6.5YrCancerDerived_Inh
1721	ALL	353165.5	3793060	1.60E-07	6.5YrCancerDerived_Inh
1722	ALL	353190.5	3793060	1.68E-07	6.5YrCancerDerived_Inh
1723	ALL	353215.5	3793060	1.77E-07	6.5YrCancerDerived_Inh
1724	ALL	353240.5	3793060	1.87E-07	6.5YrCancerDerived_Inh
1725	ALL	353265.5	3793060	1.97E-07	6.5YrCancerDerived_Inh
1726	ALL	353290.5	3793060	2.09E-07	6.5YrCancerDerived_Inh
1727	ALL	353315.5	3793060	2.22E-07	6.5YrCancerDerived_Inh
1728	ALL	353340.5	3793060	2.35E-07	6.5YrCancerDerived_Inh
1729	ALL	353365.5	3793060	2.49E-07	6.5YrCancerDerived_Inh
1730	ALL	353390.5	3793060	2.67E-07	6.5YrCancerDerived_Inh
1731	ALL	353415.5	3793060	2.84E-07	6.5YrCancerDerived_Inh
1732	ALL	353440.5	3793060	3.01E-07	6.5YrCancerDerived_Inh
1733	ALL	353465.5	3793060	3.22E-07	6.5YrCancerDerived_Inh
1734	ALL	353490.5	3793060	3.49E-07	6.5YrCancerDerived_Inh
1735	ALL	353515.5	3793060	3.84E-07	6.5YrCancerDerived_Inh
1736	ALL	353540.5	3793060	4.19E-07	6.5YrCancerDerived_Inh
1737	ALL	353565.5	3793060	4.59E-07	6.5YrCancerDerived_Inh

1738	ALL	353590.5	3793060	5.10E-07	6.5YrCancerDerived_Inh
1739	ALL	353615.5	3793060	5.73E-07	6.5YrCancerDerived_Inh
1740	ALL	353640.5	3793060	6.53E-07	6.5YrCancerDerived_Inh
1741	ALL	353665.5	3793060	7.63E-07	6.5YrCancerDerived_Inh
1742	ALL	353690.5	3793060	9.25E-07	6.5YrCancerDerived_Inh
1743	ALL	353715.5	3793060	1.20E-06	6.5YrCancerDerived_Inh
1744	ALL	353740.5	3793060	1.74E-06	6.5YrCancerDerived_Inh
1745	ALL	353015.5	3793085	1.26E-07	6.5YrCancerDerived_Inh
1746	ALL	353040.5	3793085	1.31E-07	6.5YrCancerDerived_Inh
1747	ALL	353065.5	3793085	1.37E-07	6.5YrCancerDerived_Inh
1748	ALL	353090.5	3793085	1.42E-07	6.5YrCancerDerived_Inh
1749	ALL	353115.5	3793085	1.48E-07	6.5YrCancerDerived_Inh
1750	ALL	353140.5	3793085	1.55E-07	6.5YrCancerDerived_Inh
1751	ALL	353165.5	3793085	1.63E-07	6.5YrCancerDerived_Inh
1752	ALL	353190.5	3793085	1.71E-07	6.5YrCancerDerived_Inh
1753	ALL	353215.5	3793085	1.80E-07	6.5YrCancerDerived_Inh
1754	ALL	353240.5	3793085	1.90E-07	6.5YrCancerDerived_Inh
1755	ALL	353265.5	3793085	2.02E-07	6.5YrCancerDerived_Inh
1756	ALL	353290.5	3793085	2.14E-07	6.5YrCancerDerived_Inh
1757	ALL	353315.5	3793085	2.27E-07	6.5YrCancerDerived_Inh
1758	ALL	353340.5	3793085	2.40E-07	6.5YrCancerDerived_Inh
1759	ALL	353365.5	3793085	2.55E-07	6.5YrCancerDerived_Inh
1760	ALL	353390.5	3793085	2.74E-07	6.5YrCancerDerived_Inh
1761	ALL	353415.5	3793085	2.92E-07	6.5YrCancerDerived_Inh
1762	ALL	353440.5	3793085	3.11E-07	6.5YrCancerDerived_Inh
1763	ALL	353465.5	3793085	3.31E-07	6.5YrCancerDerived_Inh
1764	ALL	353490.5	3793085	3.56E-07	6.5YrCancerDerived_Inh
1765	ALL	353515.5	3793085	3.88E-07	6.5YrCancerDerived_Inh
1766	ALL	353540.5	3793085	4.28E-07	6.5YrCancerDerived_Inh
1767	ALL	353565.5	3793085	4.70E-07	6.5YrCancerDerived_Inh
1768	ALL	353590.5	3793085	5.21E-07	6.5YrCancerDerived_Inh
1769	ALL	353615.5	3793085	5.85E-07	6.5YrCancerDerived_Inh
1770	ALL	353640.5	3793085	6.66E-07	6.5YrCancerDerived_Inh
1771	ALL	353665.5	3793085	7.78E-07	6.5YrCancerDerived_Inh
1772	ALL	353690.5	3793085	9.41E-07	6.5YrCancerDerived_Inh
1773	ALL	353715.5	3793085	1.22E-06	6.5YrCancerDerived_Inh
1774	ALL	353740.5	3793085	1.75E-06	6.5YrCancerDerived_Inh
1775	ALL	353015.5	3793110	1.28E-07	6.5YrCancerDerived_Inh
1776	ALL	353040.5	3793110	1.33E-07	6.5YrCancerDerived_Inh
1777	ALL	353065.5	3793110	1.39E-07	6.5YrCancerDerived_Inh
1778	ALL	353090.5	3793110	1.45E-07	6.5YrCancerDerived_Inh
1779	ALL	353115.5	3793110	1.51E-07	6.5YrCancerDerived_Inh
1780	ALL	353140.5	3793110	1.58E-07	6.5YrCancerDerived_Inh
1781	ALL	353165.5	3793110	1.66E-07	6.5YrCancerDerived_Inh
1782	ALL	353190.5	3793110	1.74E-07	6.5YrCancerDerived_Inh
1783	ALL	353215.5	3793110	1.83E-07	6.5YrCancerDerived_Inh
1784	ALL	353240.5	3793110	1.93E-07	6.5YrCancerDerived_Inh

1785	ALL	353265.5	3793110	2.04E-07	6.5YrCancerDerived_Inh
1786	ALL	353290.5	3793110	2.17E-07	6.5YrCancerDerived_Inh
1787	ALL	353315.5	3793110	2.31E-07	6.5YrCancerDerived_Inh
1788	ALL	353340.5	3793110	2.45E-07	6.5YrCancerDerived_Inh
1789	ALL	353365.5	3793110	2.60E-07	6.5YrCancerDerived_Inh
1790	ALL	353390.5	3793110	2.79E-07	6.5YrCancerDerived_Inh
1791	ALL	353415.5	3793110	2.98E-07	6.5YrCancerDerived_Inh
1792	ALL	353440.5	3793110	3.19E-07	6.5YrCancerDerived_Inh
1793	ALL	353465.5	3793110	3.42E-07	6.5YrCancerDerived_Inh
1794	ALL	353490.5	3793110	3.66E-07	6.5YrCancerDerived_Inh
1795	ALL	353515.5	3793110	3.94E-07	6.5YrCancerDerived_Inh
1796	ALL	353540.5	3793110	4.34E-07	6.5YrCancerDerived_Inh
1797	ALL	353565.5	3793110	4.80E-07	6.5YrCancerDerived_Inh
1798	ALL	353590.5	3793110	5.33E-07	6.5YrCancerDerived_Inh
1799	ALL	353615.5	3793110	5.97E-07	6.5YrCancerDerived_Inh
1800	ALL	353640.5	3793110	6.79E-07	6.5YrCancerDerived_Inh
1801	ALL	353665.5	3793110	7.92E-07	6.5YrCancerDerived_Inh
1802	ALL	353690.5	3793110	9.55E-07	6.5YrCancerDerived_Inh
1803	ALL	353715.5	3793110	1.23E-06	6.5YrCancerDerived_Inh
1804	ALL	353740.5	3793110	1.75E-06	6.5YrCancerDerived_Inh
1805	ALL	353015.5	3793135	1.29E-07	6.5YrCancerDerived_Inh
1806	ALL	353040.5	3793135	1.35E-07	6.5YrCancerDerived_Inh
1807	ALL	353065.5	3793135	1.40E-07	6.5YrCancerDerived_Inh
1808	ALL	353090.5	3793135	1.47E-07	6.5YrCancerDerived_Inh
1809	ALL	353115.5	3793135	1.53E-07	6.5YrCancerDerived_Inh
1810	ALL	353140.5	3793135	1.60E-07	6.5YrCancerDerived_Inh
1811	ALL	353165.5	3793135	1.68E-07	6.5YrCancerDerived_Inh
1812	ALL	353190.5	3793135	1.77E-07	6.5YrCancerDerived_Inh
1813	ALL	353215.5	3793135	1.86E-07	6.5YrCancerDerived_Inh
1814	ALL	353240.5	3793135	1.96E-07	6.5YrCancerDerived_Inh
1815	ALL	353265.5	3793135	2.07E-07	6.5YrCancerDerived_Inh
1816	ALL	353290.5	3793135	2.20E-07	6.5YrCancerDerived_Inh
1817	ALL	353315.5	3793135	2.34E-07	6.5YrCancerDerived_Inh
1818	ALL	353340.5	3793135	2.48E-07	6.5YrCancerDerived_Inh
1819	ALL	353365.5	3793135	2.64E-07	6.5YrCancerDerived_Inh
1820	ALL	353390.5	3793135	2.82E-07	6.5YrCancerDerived_Inh
1821	ALL	353415.5	3793135	3.02E-07	6.5YrCancerDerived_Inh
1822	ALL	353440.5	3793135	3.24E-07	6.5YrCancerDerived_Inh
1823	ALL	353465.5	3793135	3.48E-07	6.5YrCancerDerived_Inh
1824	ALL	353490.5	3793135	3.76E-07	6.5YrCancerDerived_Inh
1825	ALL	353515.5	3793135	4.05E-07	6.5YrCancerDerived_Inh
1826	ALL	353540.5	3793135	4.38E-07	6.5YrCancerDerived_Inh
1827	ALL	353565.5	3793135	4.90E-07	6.5YrCancerDerived_Inh
1828	ALL	353590.5	3793135	5.44E-07	6.5YrCancerDerived_Inh
1829	ALL	353615.5	3793135	6.09E-07	6.5YrCancerDerived_Inh
1830	ALL	353640.5	3793135	6.92E-07	6.5YrCancerDerived_Inh
1831	ALL	353665.5	3793135	8.06E-07	6.5YrCancerDerived_Inh

1832	ALL	353690.5	3793135	9.70E-07	6.5YrCancerDerived_Inh
1833	ALL	353715.5	3793135	1.24E-06	6.5YrCancerDerived_Inh
1834	ALL	353740.5	3793135	1.76E-06	6.5YrCancerDerived_Inh
1835	ALL	353015.5	3793160	1.31E-07	6.5YrCancerDerived_Inh
1836	ALL	353040.5	3793160	1.37E-07	6.5YrCancerDerived_Inh
1837	ALL	353065.5	3793160	1.43E-07	6.5YrCancerDerived_Inh
1838	ALL	353090.5	3793160	1.49E-07	6.5YrCancerDerived_Inh
1839	ALL	353115.5	3793160	1.56E-07	6.5YrCancerDerived_Inh
1840	ALL	353140.5	3793160	1.64E-07	6.5YrCancerDerived_Inh
1841	ALL	353165.5	3793160	1.71E-07	6.5YrCancerDerived_Inh
1842	ALL	353190.5	3793160	1.80E-07	6.5YrCancerDerived_Inh
1843	ALL	353215.5	3793160	1.90E-07	6.5YrCancerDerived_Inh
1844	ALL	353240.5	3793160	2.00E-07	6.5YrCancerDerived_Inh
1845	ALL	353265.5	3793160	2.12E-07	6.5YrCancerDerived_Inh
1846	ALL	353290.5	3793160	2.25E-07	6.5YrCancerDerived_Inh
1847	ALL	353315.5	3793160	2.39E-07	6.5YrCancerDerived_Inh
1848	ALL	353340.5	3793160	2.54E-07	6.5YrCancerDerived_Inh
1849	ALL	353365.5	3793160	2.70E-07	6.5YrCancerDerived_Inh
1850	ALL	353390.5	3793160	2.89E-07	6.5YrCancerDerived_Inh
1851	ALL	353415.5	3793160	3.09E-07	6.5YrCancerDerived_Inh
1852	ALL	353440.5	3793160	3.31E-07	6.5YrCancerDerived_Inh
1853	ALL	353465.5	3793160	3.56E-07	6.5YrCancerDerived_Inh
1854	ALL	353490.5	3793160	3.85E-07	6.5YrCancerDerived_Inh
1855	ALL	353515.5	3793160	4.15E-07	6.5YrCancerDerived_Inh
1856	ALL	353540.5	3793160	4.47E-07	6.5YrCancerDerived_Inh
1857	ALL	353565.5	3793160	5.01E-07	6.5YrCancerDerived_Inh
1858	ALL	353590.5	3793160	5.57E-07	6.5YrCancerDerived_Inh
1859	ALL	353615.5	3793160	6.23E-07	6.5YrCancerDerived_Inh
1860	ALL	353640.5	3793160	7.08E-07	6.5YrCancerDerived_Inh
1861	ALL	353665.5	3793160	8.22E-07	6.5YrCancerDerived_Inh
1862	ALL	353690.5	3793160	9.85E-07	6.5YrCancerDerived_Inh
1863	ALL	353715.5	3793160	1.26E-06	6.5YrCancerDerived_Inh
1864	ALL	353740.5	3793160	1.77E-06	6.5YrCancerDerived_Inh
1865	ALL	353015.5	3793185	1.34E-07	6.5YrCancerDerived_Inh
1866	ALL	353040.5	3793185	1.39E-07	6.5YrCancerDerived_Inh
1867	ALL	353065.5	3793185	1.45E-07	6.5YrCancerDerived_Inh
1868	ALL	353090.5	3793185	1.52E-07	6.5YrCancerDerived_Inh
1869	ALL	353115.5	3793185	1.59E-07	6.5YrCancerDerived_Inh
1870	ALL	353140.5	3793185	1.67E-07	6.5YrCancerDerived_Inh
1871	ALL	353165.5	3793185	1.75E-07	6.5YrCancerDerived_Inh
1872	ALL	353190.5	3793185	1.84E-07	6.5YrCancerDerived_Inh
1873	ALL	353215.5	3793185	1.94E-07	6.5YrCancerDerived_Inh
1874	ALL	353240.5	3793185	2.05E-07	6.5YrCancerDerived_Inh
1875	ALL	353265.5	3793185	2.17E-07	6.5YrCancerDerived_Inh
1876	ALL	353290.5	3793185	2.30E-07	6.5YrCancerDerived_Inh
1877	ALL	353315.5	3793185	2.45E-07	6.5YrCancerDerived_Inh
1878	ALL	353340.5	3793185	2.60E-07	6.5YrCancerDerived_Inh

1879	ALL	353365.5	3793185	2.76E-07	6.5YrCancerDerived_Inh
1880	ALL	353390.5	3793185	2.95E-07	6.5YrCancerDerived_Inh
1881	ALL	353415.5	3793185	3.16E-07	6.5YrCancerDerived_Inh
1882	ALL	353440.5	3793185	3.39E-07	6.5YrCancerDerived_Inh
1883	ALL	353465.5	3793185	3.63E-07	6.5YrCancerDerived_Inh
1884	ALL	353490.5	3793185	3.93E-07	6.5YrCancerDerived_Inh
1885	ALL	353515.5	3793185	4.26E-07	6.5YrCancerDerived_Inh
1886	ALL	353540.5	3793185	4.62E-07	6.5YrCancerDerived_Inh
1887	ALL	353565.5	3793185	5.05E-07	6.5YrCancerDerived_Inh
1888	ALL	353590.5	3793185	5.69E-07	6.5YrCancerDerived_Inh
1889	ALL	353615.5	3793185	6.37E-07	6.5YrCancerDerived_Inh
1890	ALL	353640.5	3793185	7.22E-07	6.5YrCancerDerived_Inh
1891	ALL	353665.5	3793185	8.37E-07	6.5YrCancerDerived_Inh
1892	ALL	353690.5	3793185	1.00E-06	6.5YrCancerDerived_Inh
1893	ALL	353715.5	3793185	1.28E-06	6.5YrCancerDerived_Inh
1894	ALL	353740.5	3793185	1.79E-06	6.5YrCancerDerived_Inh
1895	ALL	353015.5	3793210	1.36E-07	6.5YrCancerDerived_Inh
1896	ALL	353040.5	3793210	1.42E-07	6.5YrCancerDerived_Inh
1897	ALL	353065.5	3793210	1.48E-07	6.5YrCancerDerived_Inh
1898	ALL	353090.5	3793210	1.55E-07	6.5YrCancerDerived_Inh
1899	ALL	353115.5	3793210	1.62E-07	6.5YrCancerDerived_Inh
1900	ALL	353140.5	3793210	1.70E-07	6.5YrCancerDerived_Inh
1901	ALL	353165.5	3793210	1.78E-07	6.5YrCancerDerived_Inh
1902	ALL	353190.5	3793210	1.87E-07	6.5YrCancerDerived_Inh
1903	ALL	353215.5	3793210	1.98E-07	6.5YrCancerDerived_Inh
1904	ALL	353240.5	3793210	2.09E-07	6.5YrCancerDerived_Inh
1905	ALL	353265.5	3793210	2.21E-07	6.5YrCancerDerived_Inh
1906	ALL	353290.5	3793210	2.35E-07	6.5YrCancerDerived_Inh
1907	ALL	353315.5	3793210	2.49E-07	6.5YrCancerDerived_Inh
1908	ALL	353340.5	3793210	2.64E-07	6.5YrCancerDerived_Inh
1909	ALL	353365.5	3793210	2.81E-07	6.5YrCancerDerived_Inh
1910	ALL	353390.5	3793210	3.01E-07	6.5YrCancerDerived_Inh
1911	ALL	353415.5	3793210	3.22E-07	6.5YrCancerDerived_Inh
1912	ALL	353440.5	3793210	3.45E-07	6.5YrCancerDerived_Inh
1913	ALL	353465.5	3793210	3.71E-07	6.5YrCancerDerived_Inh
1914	ALL	353490.5	3793210	4.02E-07	6.5YrCancerDerived_Inh
1915	ALL	353515.5	3793210	4.37E-07	6.5YrCancerDerived_Inh
1916	ALL	353540.5	3793210	4.75E-07	6.5YrCancerDerived_Inh
1917	ALL	353565.5	3793210	5.13E-07	6.5YrCancerDerived_Inh
1918	ALL	353590.5	3793210	5.82E-07	6.5YrCancerDerived_Inh
1919	ALL	353615.5	3793210	6.52E-07	6.5YrCancerDerived_Inh
1920	ALL	353640.5	3793210	7.38E-07	6.5YrCancerDerived_Inh
1921	ALL	353665.5	3793210	8.54E-07	6.5YrCancerDerived_Inh
1922	ALL	353690.5	3793210	1.02E-06	6.5YrCancerDerived_Inh
1923	ALL	353715.5	3793210	1.30E-06	6.5YrCancerDerived_Inh
1924	ALL	353740.5	3793210	1.80E-06	6.5YrCancerDerived_Inh
1925	ALL	353615.5	3793235	6.66E-07	6.5YrCancerDerived_Inh

1926	ALL	353640.5	3793235	7.55E-07	6.5YrCancerDerived_Inh
1927	ALL	353665.5	3793235	8.74E-07	6.5YrCancerDerived_Inh
1928	ALL	353690.5	3793235	1.04E-06	6.5YrCancerDerived_Inh
1929	ALL	353715.5	3793235	1.31E-06	6.5YrCancerDerived_Inh
1930	ALL	353740.5	3793235	1.82E-06	6.5YrCancerDerived_Inh
1931	ALL	353923.3	3793217	1.07E-06	6.5YrCancerDerived_Inh
1932	ALL	353918	3793262	1.32E-06	6.5YrCancerDerived_Inh
1933	ALL	353933	3793262	1.32E-06	6.5YrCancerDerived_Inh
1934	ALL	353948	3793262	1.33E-06	6.5YrCancerDerived_Inh
1935	ALL	353963	3793262	1.33E-06	6.5YrCancerDerived_Inh
1936	ALL	353918	3793277	1.43E-06	6.5YrCancerDerived_Inh
1937	ALL	353933	3793277	1.45E-06	6.5YrCancerDerived_Inh
1938	ALL	353948	3793277	1.46E-06	6.5YrCancerDerived_Inh
1939	ALL	353963	3793277	1.46E-06	6.5YrCancerDerived_Inh
1940	ALL	353978	3793277	1.46E-06	6.5YrCancerDerived_Inh
1941	ALL	353993	3793277	1.44E-06	6.5YrCancerDerived_Inh
1942	ALL	353933	3793292	1.60E-06	6.5YrCancerDerived_Inh
1943	ALL	353948	3793292	1.62E-06	6.5YrCancerDerived_Inh
1944	ALL	353963	3793292	1.62E-06	6.5YrCancerDerived_Inh
1945	ALL	353978	3793292	1.61E-06	6.5YrCancerDerived_Inh
1946	ALL	353993	3793292	1.60E-06	6.5YrCancerDerived_Inh
1947	ALL	354008	3793292	1.57E-06	6.5YrCancerDerived_Inh
1948	ALL	354023	3793292	1.54E-06	6.5YrCancerDerived_Inh
1949	ALL	353963	3793307	1.81E-06	6.5YrCancerDerived_Inh
1950	ALL	353978	3793307	1.80E-06	6.5YrCancerDerived_Inh
1951	ALL	353993	3793307	1.79E-06	6.5YrCancerDerived_Inh
1952	ALL	354008	3793307	1.76E-06	6.5YrCancerDerived_Inh
1953	ALL	354023	3793307	1.72E-06	6.5YrCancerDerived_Inh
1954	ALL	354038	3793307	1.67E-06	6.5YrCancerDerived_Inh
1955	ALL	353963	3793322	2.05E-06	6.5YrCancerDerived_Inh
1956	ALL	353978	3793322	2.04E-06	6.5YrCancerDerived_Inh
1957	ALL	353993	3793322	2.03E-06	6.5YrCancerDerived_Inh
1958	ALL	354008	3793322	2.00E-06	6.5YrCancerDerived_Inh
1959	ALL	354023	3793322	1.95E-06	6.5YrCancerDerived_Inh
1960	ALL	354038	3793322	1.90E-06	6.5YrCancerDerived_Inh
1961	ALL	354053	3793322	1.83E-06	6.5YrCancerDerived_Inh
1962	ALL	353993	3793337	2.34E-06	6.5YrCancerDerived_Inh
1963	ALL	354008	3793337	2.30E-06	6.5YrCancerDerived_Inh
1964	ALL	354023	3793337	2.25E-06	6.5YrCancerDerived_Inh
1965	ALL	354038	3793337	2.19E-06	6.5YrCancerDerived_Inh
1966	ALL	354053	3793337	2.11E-06	6.5YrCancerDerived_Inh
1967	ALL	354068	3793337	1.99E-06	6.5YrCancerDerived_Inh
1968	ALL	354008	3793352	2.69E-06	6.5YrCancerDerived_Inh
1969	ALL	354023	3793352	2.64E-06	6.5YrCancerDerived_Inh
1970	ALL	354038	3793352	2.56E-06	6.5YrCancerDerived_Inh
1971	ALL	354053	3793352	2.45E-06	6.5YrCancerDerived_Inh
1972	ALL	354068	3793352	2.31E-06	6.5YrCancerDerived_Inh

1973	ALL	354083	3793352	2.17E-06	6.5YrCancerDerived_Inh
1974	ALL	354008	3793367	3.20E-06	6.5YrCancerDerived_Inh
1975	ALL	354023	3793367	3.17E-06	6.5YrCancerDerived_Inh
1976	ALL	354038	3793367	3.05E-06	6.5YrCancerDerived_Inh
1977	ALL	354053	3793367	2.90E-06	6.5YrCancerDerived_Inh
1978	ALL	354068	3793367	2.74E-06	6.5YrCancerDerived_Inh
1979	ALL	354083	3793367	2.55E-06	6.5YrCancerDerived_Inh
1980	ALL	354098	3793367	2.34E-06	6.5YrCancerDerived_Inh
1981	ALL	354008	3793382	3.87E-06	6.5YrCancerDerived_Inh
1982	ALL	354023	3793382	3.81E-06	6.5YrCancerDerived_Inh
1983	ALL	354038	3793382	3.66E-06	6.5YrCancerDerived_Inh
1984	ALL	354053	3793382	3.48E-06	6.5YrCancerDerived_Inh
1985	ALL	354068	3793382	3.27E-06	6.5YrCancerDerived_Inh
1986	ALL	354083	3793382	3.03E-06	6.5YrCancerDerived_Inh
1987	ALL	354098	3793382	2.76E-06	6.5YrCancerDerived_Inh
1988	ALL	354008	3793397	4.79E-06	6.5YrCancerDerived_Inh
1989	ALL	354023	3793397	4.67E-06	6.5YrCancerDerived_Inh
1990	ALL	354038	3793397	4.50E-06	6.5YrCancerDerived_Inh
1991	ALL	354053	3793397	4.28E-06	6.5YrCancerDerived_Inh
1992	ALL	354068	3793397	3.99E-06	6.5YrCancerDerived_Inh
1993	ALL	354083	3793397	3.67E-06	6.5YrCancerDerived_Inh
1994	ALL	354098	3793397	3.34E-06	6.5YrCancerDerived_Inh
1995	ALL	354113	3793397	3.03E-06	6.5YrCancerDerived_Inh
1996	ALL	354008	3793412	6.22E-06	6.5YrCancerDerived_Inh
1997	ALL	354023	3793412	6.06E-06	6.5YrCancerDerived_Inh
1998	ALL	354038	3793412	5.83E-06	6.5YrCancerDerived_Inh
1999	ALL	354053	3793412	5.52E-06	6.5YrCancerDerived_Inh
2000	ALL	354068	3793412	5.12E-06	6.5YrCancerDerived_Inh
2001	ALL	354083	3793412	4.68E-06	6.5YrCancerDerived_Inh
2002	ALL	354098	3793412	4.21E-06	6.5YrCancerDerived_Inh
2003	ALL	354113	3793412	3.77E-06	6.5YrCancerDerived_Inh
2004	ALL	354128	3793412	3.29E-06	6.5YrCancerDerived_Inh
2005	ALL	354008	3793427	8.60E-06	6.5YrCancerDerived_Inh
2006	ALL	354023	3793427	8.39E-06	6.5YrCancerDerived_Inh
2007	ALL	354038	3793427	8.03E-06	6.5YrCancerDerived_Inh
2008	ALL	354053	3793427	7.55E-06	6.5YrCancerDerived_Inh
2009	ALL	354068	3793427	6.98E-06	6.5YrCancerDerived_Inh
2010	ALL	354083	3793427	6.34E-06	6.5YrCancerDerived_Inh
2011	ALL	354098	3793427	5.67E-06	6.5YrCancerDerived_Inh
2012	ALL	354113	3793427	4.97E-06	6.5YrCancerDerived_Inh
2013	ALL	354128	3793427	4.13E-06	6.5YrCancerDerived_Inh
2014	ALL	353366.5	3793255	2.92E-07	6.5YrCancerDerived_Inh
2015	ALL	353381.5	3793255	3.05E-07	6.5YrCancerDerived_Inh
2016	ALL	353396.5	3793255	3.18E-07	6.5YrCancerDerived_Inh
2017	ALL	353411.5	3793255	3.31E-07	6.5YrCancerDerived_Inh
2018	ALL	353426.5	3793255	3.45E-07	6.5YrCancerDerived_Inh
2019	ALL	353441.5	3793255	3.59E-07	6.5YrCancerDerived_Inh

2020	ALL	353456.5	3793255	3.75E-07	6.5YrCancerDerived_Inh
2021	ALL	353471.5	3793255	3.92E-07	6.5YrCancerDerived_Inh
2022	ALL	353486.5	3793255	4.11E-07	6.5YrCancerDerived_Inh
2023	ALL	353501.5	3793255	4.32E-07	6.5YrCancerDerived_Inh
2024	ALL	353516.5	3793255	4.55E-07	6.5YrCancerDerived_Inh
2025	ALL	353531.5	3793255	4.80E-07	6.5YrCancerDerived_Inh
2026	ALL	353546.5	3793255	5.08E-07	6.5YrCancerDerived_Inh
2027	ALL	353366.5	3793270	2.96E-07	6.5YrCancerDerived_Inh
2028	ALL	353381.5	3793270	3.09E-07	6.5YrCancerDerived_Inh
2029	ALL	353396.5	3793270	3.22E-07	6.5YrCancerDerived_Inh
2030	ALL	353411.5	3793270	3.35E-07	6.5YrCancerDerived_Inh
2031	ALL	353426.5	3793270	3.49E-07	6.5YrCancerDerived_Inh
2032	ALL	353441.5	3793270	3.64E-07	6.5YrCancerDerived_Inh
2033	ALL	353456.5	3793270	3.80E-07	6.5YrCancerDerived_Inh
2034	ALL	353471.5	3793270	3.98E-07	6.5YrCancerDerived_Inh
2035	ALL	353486.5	3793270	4.17E-07	6.5YrCancerDerived_Inh
2036	ALL	353501.5	3793270	4.38E-07	6.5YrCancerDerived_Inh
2037	ALL	353516.5	3793270	4.61E-07	6.5YrCancerDerived_Inh
2038	ALL	353531.5	3793270	4.86E-07	6.5YrCancerDerived_Inh
2039	ALL	353546.5	3793270	5.14E-07	6.5YrCancerDerived_Inh
2040	ALL	353561.5	3793270	5.46E-07	6.5YrCancerDerived_Inh
2041	ALL	353576.5	3793270	5.78E-07	6.5YrCancerDerived_Inh
2042	ALL	353591.5	3793270	6.15E-07	6.5YrCancerDerived_Inh
2043	ALL	353606.5	3793270	6.63E-07	6.5YrCancerDerived_Inh
2044	ALL	353621.5	3793270	7.15E-07	6.5YrCancerDerived_Inh
2045	ALL	353636.5	3793270	7.72E-07	6.5YrCancerDerived_Inh
2046	ALL	353651.5	3793270	8.40E-07	6.5YrCancerDerived_Inh
2047	ALL	353666.5	3793270	9.20E-07	6.5YrCancerDerived_Inh
2048	ALL	353681.5	3793270	1.02E-06	6.5YrCancerDerived_Inh
2049	ALL	353696.5	3793270	1.14E-06	6.5YrCancerDerived_Inh
2050	ALL	353711.5	3793270	1.29E-06	6.5YrCancerDerived_Inh
2051	ALL	353726.5	3793270	1.53E-06	6.5YrCancerDerived_Inh
2052	ALL	353366.5	3793285	2.99E-07	6.5YrCancerDerived_Inh
2053	ALL	353381.5	3793285	3.13E-07	6.5YrCancerDerived_Inh
2054	ALL	353396.5	3793285	3.26E-07	6.5YrCancerDerived_Inh
2055	ALL	353411.5	3793285	3.39E-07	6.5YrCancerDerived_Inh
2056	ALL	353426.5	3793285	3.53E-07	6.5YrCancerDerived_Inh
2057	ALL	353441.5	3793285	3.68E-07	6.5YrCancerDerived_Inh
2058	ALL	353456.5	3793285	3.85E-07	6.5YrCancerDerived_Inh
2059	ALL	353471.5	3793285	4.03E-07	6.5YrCancerDerived_Inh
2060	ALL	353486.5	3793285	4.22E-07	6.5YrCancerDerived_Inh
2061	ALL	353501.5	3793285	4.43E-07	6.5YrCancerDerived_Inh
2062	ALL	353516.5	3793285	4.66E-07	6.5YrCancerDerived_Inh
2063	ALL	353531.5	3793285	4.91E-07	6.5YrCancerDerived_Inh
2064	ALL	353546.5	3793285	5.21E-07	6.5YrCancerDerived_Inh
2065	ALL	353561.5	3793285	5.54E-07	6.5YrCancerDerived_Inh
2066	ALL	353576.5	3793285	5.86E-07	6.5YrCancerDerived_Inh

2067	ALL	353591.5	3793285	6.23E-07	6.5YrCancerDerived_Inh
2068	ALL	353606.5	3793285	6.76E-07	6.5YrCancerDerived_Inh
2069	ALL	353621.5	3793285	7.31E-07	6.5YrCancerDerived_Inh
2070	ALL	353636.5	3793285	7.90E-07	6.5YrCancerDerived_Inh
2071	ALL	353651.5	3793285	8.59E-07	6.5YrCancerDerived_Inh
2072	ALL	353666.5	3793285	9.41E-07	6.5YrCancerDerived_Inh
2073	ALL	353681.5	3793285	1.04E-06	6.5YrCancerDerived_Inh
2074	ALL	353696.5	3793285	1.16E-06	6.5YrCancerDerived_Inh
2075	ALL	353711.5	3793285	1.31E-06	6.5YrCancerDerived_Inh
2076	ALL	353726.5	3793285	1.55E-06	6.5YrCancerDerived_Inh
2077	ALL	353366.5	3793300	3.02E-07	6.5YrCancerDerived_Inh
2078	ALL	353381.5	3793300	3.16E-07	6.5YrCancerDerived_Inh
2079	ALL	353396.5	3793300	3.29E-07	6.5YrCancerDerived_Inh
2080	ALL	353411.5	3793300	3.43E-07	6.5YrCancerDerived_Inh
2081	ALL	353426.5	3793300	3.57E-07	6.5YrCancerDerived_Inh
2082	ALL	353441.5	3793300	3.72E-07	6.5YrCancerDerived_Inh
2083	ALL	353456.5	3793300	3.89E-07	6.5YrCancerDerived_Inh
2084	ALL	353471.5	3793300	4.08E-07	6.5YrCancerDerived_Inh
2085	ALL	353486.5	3793300	4.28E-07	6.5YrCancerDerived_Inh
2086	ALL	353501.5	3793300	4.50E-07	6.5YrCancerDerived_Inh
2087	ALL	353516.5	3793300	4.74E-07	6.5YrCancerDerived_Inh
2088	ALL	353531.5	3793300	4.99E-07	6.5YrCancerDerived_Inh
2089	ALL	353546.5	3793300	5.29E-07	6.5YrCancerDerived_Inh
2090	ALL	353561.5	3793300	5.62E-07	6.5YrCancerDerived_Inh
2091	ALL	353576.5	3793300	5.95E-07	6.5YrCancerDerived_Inh
2092	ALL	353591.5	3793300	6.33E-07	6.5YrCancerDerived_Inh
2093	ALL	353606.5	3793300	6.86E-07	6.5YrCancerDerived_Inh
2094	ALL	353621.5	3793300	7.43E-07	6.5YrCancerDerived_Inh
2095	ALL	353636.5	3793300	8.04E-07	6.5YrCancerDerived_Inh
2096	ALL	353651.5	3793300	8.74E-07	6.5YrCancerDerived_Inh
2097	ALL	353666.5	3793300	9.58E-07	6.5YrCancerDerived_Inh
2098	ALL	353681.5	3793300	1.06E-06	6.5YrCancerDerived_Inh
2099	ALL	353696.5	3793300	1.18E-06	6.5YrCancerDerived_Inh
2100	ALL	353711.5	3793300	1.34E-06	6.5YrCancerDerived_Inh
2101	ALL	353726.5	3793300	1.59E-06	6.5YrCancerDerived_Inh
2102	ALL	353366.5	3793315	3.06E-07	6.5YrCancerDerived_Inh
2103	ALL	353381.5	3793315	3.20E-07	6.5YrCancerDerived_Inh
2104	ALL	353396.5	3793315	3.33E-07	6.5YrCancerDerived_Inh
2105	ALL	353411.5	3793315	3.47E-07	6.5YrCancerDerived_Inh
2106	ALL	353426.5	3793315	3.61E-07	6.5YrCancerDerived_Inh
2107	ALL	353441.5	3793315	3.76E-07	6.5YrCancerDerived_Inh
2108	ALL	353456.5	3793315	3.94E-07	6.5YrCancerDerived_Inh
2109	ALL	353471.5	3793315	4.14E-07	6.5YrCancerDerived_Inh
2110	ALL	353486.5	3793315	4.35E-07	6.5YrCancerDerived_Inh
2111	ALL	353501.5	3793315	4.57E-07	6.5YrCancerDerived_Inh
2112	ALL	353516.5	3793315	4.82E-07	6.5YrCancerDerived_Inh
2113	ALL	353531.5	3793315	5.07E-07	6.5YrCancerDerived_Inh

2114	ALL	353546.5	3793315	5.37E-07	6.5YrCancerDerived_Inh
2115	ALL	353561.5	3793315	5.71E-07	6.5YrCancerDerived_Inh
2116	ALL	353576.5	3793315	6.05E-07	6.5YrCancerDerived_Inh
2117	ALL	353591.5	3793315	6.44E-07	6.5YrCancerDerived_Inh
2118	ALL	353606.5	3793315	6.97E-07	6.5YrCancerDerived_Inh
2119	ALL	353621.5	3793315	7.55E-07	6.5YrCancerDerived_Inh
2120	ALL	353636.5	3793315	8.18E-07	6.5YrCancerDerived_Inh
2121	ALL	353651.5	3793315	8.90E-07	6.5YrCancerDerived_Inh
2122	ALL	353666.5	3793315	9.76E-07	6.5YrCancerDerived_Inh
2123	ALL	353681.5	3793315	1.08E-06	6.5YrCancerDerived_Inh
2124	ALL	353696.5	3793315	1.21E-06	6.5YrCancerDerived_Inh
2125	ALL	353711.5	3793315	1.38E-06	6.5YrCancerDerived_Inh
2126	ALL	353726.5	3793315	1.64E-06	6.5YrCancerDerived_Inh
2127	ALL	353366.5	3793330	3.10E-07	6.5YrCancerDerived_Inh
2128	ALL	353381.5	3793330	3.23E-07	6.5YrCancerDerived_Inh
2129	ALL	353396.5	3793330	3.37E-07	6.5YrCancerDerived_Inh
2130	ALL	353411.5	3793330	3.51E-07	6.5YrCancerDerived_Inh
2131	ALL	353426.5	3793330	3.65E-07	6.5YrCancerDerived_Inh
2132	ALL	353441.5	3793330	3.81E-07	6.5YrCancerDerived_Inh
2133	ALL	353456.5	3793330	3.99E-07	6.5YrCancerDerived_Inh
2134	ALL	353471.5	3793330	4.19E-07	6.5YrCancerDerived_Inh
2135	ALL	353486.5	3793330	4.40E-07	6.5YrCancerDerived_Inh
2136	ALL	353501.5	3793330	4.63E-07	6.5YrCancerDerived_Inh
2137	ALL	353516.5	3793330	4.88E-07	6.5YrCancerDerived_Inh
2138	ALL	353531.5	3793330	5.15E-07	6.5YrCancerDerived_Inh
2139	ALL	353546.5	3793330	5.45E-07	6.5YrCancerDerived_Inh
2140	ALL	353561.5	3793330	5.79E-07	6.5YrCancerDerived_Inh
2141	ALL	353576.5	3793330	6.15E-07	6.5YrCancerDerived_Inh
2142	ALL	353591.5	3793330	6.57E-07	6.5YrCancerDerived_Inh
2143	ALL	353606.5	3793330	7.09E-07	6.5YrCancerDerived_Inh
2144	ALL	353621.5	3793330	7.68E-07	6.5YrCancerDerived_Inh
2145	ALL	353636.5	3793330	8.32E-07	6.5YrCancerDerived_Inh
2146	ALL	353651.5	3793330	9.07E-07	6.5YrCancerDerived_Inh
2147	ALL	353666.5	3793330	9.96E-07	6.5YrCancerDerived_Inh
2148	ALL	353681.5	3793330	1.11E-06	6.5YrCancerDerived_Inh
2149	ALL	353696.5	3793330	1.24E-06	6.5YrCancerDerived_Inh
2150	ALL	353711.5	3793330	1.43E-06	6.5YrCancerDerived_Inh
2151	ALL	353726.5	3793330	1.71E-06	6.5YrCancerDerived_Inh
2152	ALL	353366.5	3793345	3.13E-07	6.5YrCancerDerived_Inh
2153	ALL	353381.5	3793345	3.27E-07	6.5YrCancerDerived_Inh
2154	ALL	353396.5	3793345	3.41E-07	6.5YrCancerDerived_Inh
2155	ALL	353411.5	3793345	3.55E-07	6.5YrCancerDerived_Inh
2156	ALL	353426.5	3793345	3.69E-07	6.5YrCancerDerived_Inh
2157	ALL	353441.5	3793345	3.85E-07	6.5YrCancerDerived_Inh
2158	ALL	353456.5	3793345	4.04E-07	6.5YrCancerDerived_Inh
2159	ALL	353471.5	3793345	4.24E-07	6.5YrCancerDerived_Inh
2160	ALL	353486.5	3793345	4.46E-07	6.5YrCancerDerived_Inh

2161	ALL	353501.5	3793345	4.69E-07	6.5YrCancerDerived_Inh
2162	ALL	353516.5	3793345	4.95E-07	6.5YrCancerDerived_Inh
2163	ALL	353531.5	3793345	5.22E-07	6.5YrCancerDerived_Inh
2164	ALL	353546.5	3793345	5.53E-07	6.5YrCancerDerived_Inh
2165	ALL	353561.5	3793345	5.88E-07	6.5YrCancerDerived_Inh
2166	ALL	353576.5	3793345	6.26E-07	6.5YrCancerDerived_Inh
2167	ALL	353591.5	3793345	6.70E-07	6.5YrCancerDerived_Inh
2168	ALL	353606.5	3793345	7.22E-07	6.5YrCancerDerived_Inh
2169	ALL	353621.5	3793345	7.81E-07	6.5YrCancerDerived_Inh
2170	ALL	353636.5	3793345	8.47E-07	6.5YrCancerDerived_Inh
2171	ALL	353651.5	3793345	9.25E-07	6.5YrCancerDerived_Inh
2172	ALL	353666.5	3793345	1.02E-06	6.5YrCancerDerived_Inh
2173	ALL	353681.5	3793345	1.13E-06	6.5YrCancerDerived_Inh
2174	ALL	353696.5	3793345	1.28E-06	6.5YrCancerDerived_Inh
2175	ALL	353711.5	3793345	1.49E-06	6.5YrCancerDerived_Inh
2176	ALL	353726.5	3793345	1.80E-06	6.5YrCancerDerived_Inh
2177	ALL	353366.5	3793360	3.17E-07	6.5YrCancerDerived_Inh
2178	ALL	353381.5	3793360	3.30E-07	6.5YrCancerDerived_Inh
2179	ALL	353396.5	3793360	3.44E-07	6.5YrCancerDerived_Inh
2180	ALL	353411.5	3793360	3.59E-07	6.5YrCancerDerived_Inh
2181	ALL	353426.5	3793360	3.74E-07	6.5YrCancerDerived_Inh
2182	ALL	353441.5	3793360	3.91E-07	6.5YrCancerDerived_Inh
2183	ALL	353456.5	3793360	4.09E-07	6.5YrCancerDerived_Inh
2184	ALL	353471.5	3793360	4.30E-07	6.5YrCancerDerived_Inh
2185	ALL	353486.5	3793360	4.52E-07	6.5YrCancerDerived_Inh
2186	ALL	353501.5	3793360	4.76E-07	6.5YrCancerDerived_Inh
2187	ALL	353516.5	3793360	5.02E-07	6.5YrCancerDerived_Inh
2188	ALL	353531.5	3793360	5.30E-07	6.5YrCancerDerived_Inh
2189	ALL	353546.5	3793360	5.61E-07	6.5YrCancerDerived_Inh
2190	ALL	353561.5	3793360	5.94E-07	6.5YrCancerDerived_Inh
2191	ALL	353576.5	3793360	6.35E-07	6.5YrCancerDerived_Inh
2192	ALL	353591.5	3793360	6.83E-07	6.5YrCancerDerived_Inh
2193	ALL	353606.5	3793360	7.39E-07	6.5YrCancerDerived_Inh
2194	ALL	353621.5	3793360	8.02E-07	6.5YrCancerDerived_Inh
2195	ALL	353636.5	3793360	8.72E-07	6.5YrCancerDerived_Inh
2196	ALL	353651.5	3793360	9.53E-07	6.5YrCancerDerived_Inh
2197	ALL	353666.5	3793360	1.05E-06	6.5YrCancerDerived_Inh
2198	ALL	353681.5	3793360	1.18E-06	6.5YrCancerDerived_Inh
2199	ALL	353696.5	3793360	1.34E-06	6.5YrCancerDerived_Inh
2200	ALL	353711.5	3793360	1.58E-06	6.5YrCancerDerived_Inh
2201	ALL	353726.5	3793360	1.93E-06	6.5YrCancerDerived_Inh
2202	ALL	353366.5	3793375	3.22E-07	6.5YrCancerDerived_Inh
2203	ALL	353381.5	3793375	3.34E-07	6.5YrCancerDerived_Inh
2204	ALL	353396.5	3793375	3.48E-07	6.5YrCancerDerived_Inh
2205	ALL	353411.5	3793375	3.63E-07	6.5YrCancerDerived_Inh
2206	ALL	353426.5	3793375	3.79E-07	6.5YrCancerDerived_Inh
2207	ALL	353441.5	3793375	3.96E-07	6.5YrCancerDerived_Inh

2208	ALL	353456.5	3793375	4.15E-07	6.5YrCancerDerived_Inh
2209	ALL	353471.5	3793375	4.35E-07	6.5YrCancerDerived_Inh
2210	ALL	353486.5	3793375	4.58E-07	6.5YrCancerDerived_Inh
2211	ALL	353501.5	3793375	4.82E-07	6.5YrCancerDerived_Inh
2212	ALL	353516.5	3793375	5.09E-07	6.5YrCancerDerived_Inh
2213	ALL	353531.5	3793375	5.38E-07	6.5YrCancerDerived_Inh
2214	ALL	353546.5	3793375	5.69E-07	6.5YrCancerDerived_Inh
2215	ALL	353561.5	3793375	6.01E-07	6.5YrCancerDerived_Inh
2216	ALL	353576.5	3793375	6.44E-07	6.5YrCancerDerived_Inh
2217	ALL	353591.5	3793375	6.95E-07	6.5YrCancerDerived_Inh
2218	ALL	353606.5	3793375	7.57E-07	6.5YrCancerDerived_Inh
2219	ALL	353621.5	3793375	8.25E-07	6.5YrCancerDerived_Inh
2220	ALL	353636.5	3793375	8.98E-07	6.5YrCancerDerived_Inh
2221	ALL	353651.5	3793375	9.83E-07	6.5YrCancerDerived_Inh
2222	ALL	353666.5	3793375	1.09E-06	6.5YrCancerDerived_Inh
2223	ALL	353681.5	3793375	1.22E-06	6.5YrCancerDerived_Inh
2224	ALL	353696.5	3793375	1.40E-06	6.5YrCancerDerived_Inh
2225	ALL	353711.5	3793375	1.69E-06	6.5YrCancerDerived_Inh
2226	ALL	353366.5	3793390	3.32E-07	6.5YrCancerDerived_Inh
2227	ALL	353381.5	3793390	3.41E-07	6.5YrCancerDerived_Inh
2228	ALL	353396.5	3793390	3.54E-07	6.5YrCancerDerived_Inh
2229	ALL	353411.5	3793390	3.69E-07	6.5YrCancerDerived_Inh
2230	ALL	353426.5	3793390	3.86E-07	6.5YrCancerDerived_Inh
2231	ALL	353441.5	3793390	4.04E-07	6.5YrCancerDerived_Inh
2232	ALL	353456.5	3793390	4.21E-07	6.5YrCancerDerived_Inh
2233	ALL	353471.5	3793390	4.41E-07	6.5YrCancerDerived_Inh
2234	ALL	353486.5	3793390	4.64E-07	6.5YrCancerDerived_Inh
2235	ALL	353501.5	3793390	4.89E-07	6.5YrCancerDerived_Inh
2236	ALL	353516.5	3793390	5.16E-07	6.5YrCancerDerived_Inh
2237	ALL	353531.5	3793390	5.46E-07	6.5YrCancerDerived_Inh
2238	ALL	353546.5	3793390	5.77E-07	6.5YrCancerDerived_Inh
2239	ALL	353561.5	3793390	6.09E-07	6.5YrCancerDerived_Inh
2240	ALL	353576.5	3793390	6.56E-07	6.5YrCancerDerived_Inh
2241	ALL	353591.5	3793390	7.12E-07	6.5YrCancerDerived_Inh
2242	ALL	353606.5	3793390	7.73E-07	6.5YrCancerDerived_Inh
2243	ALL	353621.5	3793390	8.40E-07	6.5YrCancerDerived_Inh
2244	ALL	353636.5	3793390	9.16E-07	6.5YrCancerDerived_Inh
2245	ALL	353651.5	3793390	1.01E-06	6.5YrCancerDerived_Inh
2246	ALL	353666.5	3793390	1.11E-06	6.5YrCancerDerived_Inh
2247	ALL	353681.5	3793390	1.26E-06	6.5YrCancerDerived_Inh
2248	ALL	353696.5	3793390	1.47E-06	6.5YrCancerDerived_Inh
2249	ALL	353711.5	3793390	1.81E-06	6.5YrCancerDerived_Inh
2250	ALL	353366.5	3793405	3.42E-07	6.5YrCancerDerived_Inh
2251	ALL	353381.5	3793405	3.51E-07	6.5YrCancerDerived_Inh
2252	ALL	353396.5	3793405	3.64E-07	6.5YrCancerDerived_Inh
2253	ALL	353411.5	3793405	3.80E-07	6.5YrCancerDerived_Inh
2254	ALL	353426.5	3793405	3.97E-07	6.5YrCancerDerived_Inh

2255	ALL	353441.5	3793405	4.13E-07	6.5YrCancerDerived_Inh
2256	ALL	353456.5	3793405	4.28E-07	6.5YrCancerDerived_Inh
2257	ALL	353471.5	3793405	4.47E-07	6.5YrCancerDerived_Inh
2258	ALL	353486.5	3793405	4.70E-07	6.5YrCancerDerived_Inh
2259	ALL	353501.5	3793405	4.95E-07	6.5YrCancerDerived_Inh
2260	ALL	353516.5	3793405	5.23E-07	6.5YrCancerDerived_Inh
2261	ALL	353531.5	3793405	5.54E-07	6.5YrCancerDerived_Inh
2262	ALL	353546.5	3793405	5.86E-07	6.5YrCancerDerived_Inh
2263	ALL	353561.5	3793405	6.18E-07	6.5YrCancerDerived_Inh
2264	ALL	353576.5	3793405	6.68E-07	6.5YrCancerDerived_Inh
2265	ALL	353591.5	3793405	7.31E-07	6.5YrCancerDerived_Inh
2266	ALL	353606.5	3793405	7.88E-07	6.5YrCancerDerived_Inh
2267	ALL	353621.5	3793405	8.55E-07	6.5YrCancerDerived_Inh
2268	ALL	353636.5	3793405	9.32E-07	6.5YrCancerDerived_Inh
2269	ALL	353651.5	3793405	1.03E-06	6.5YrCancerDerived_Inh
2270	ALL	353666.5	3793405	1.14E-06	6.5YrCancerDerived_Inh
2271	ALL	353681.5	3793405	1.31E-06	6.5YrCancerDerived_Inh
2272	ALL	353696.5	3793405	1.54E-06	6.5YrCancerDerived_Inh
2273	ALL	353711.5	3793405	1.96E-06	6.5YrCancerDerived_Inh
2274	ALL	353366.5	3793420	3.50E-07	6.5YrCancerDerived_Inh
2275	ALL	353381.5	3793420	3.59E-07	6.5YrCancerDerived_Inh
2276	ALL	353396.5	3793420	3.73E-07	6.5YrCancerDerived_Inh
2277	ALL	353411.5	3793420	3.89E-07	6.5YrCancerDerived_Inh
2278	ALL	353426.5	3793420	4.06E-07	6.5YrCancerDerived_Inh
2279	ALL	353441.5	3793420	4.23E-07	6.5YrCancerDerived_Inh
2280	ALL	353456.5	3793420	4.40E-07	6.5YrCancerDerived_Inh
2281	ALL	353471.5	3793420	4.57E-07	6.5YrCancerDerived_Inh
2282	ALL	353486.5	3793420	4.77E-07	6.5YrCancerDerived_Inh
2283	ALL	353501.5	3793420	5.02E-07	6.5YrCancerDerived_Inh
2284	ALL	353516.5	3793420	5.30E-07	6.5YrCancerDerived_Inh
2285	ALL	353531.5	3793420	5.60E-07	6.5YrCancerDerived_Inh
2286	ALL	353546.5	3793420	5.93E-07	6.5YrCancerDerived_Inh
2287	ALL	353561.5	3793420	6.29E-07	6.5YrCancerDerived_Inh
2288	ALL	353576.5	3793420	6.80E-07	6.5YrCancerDerived_Inh
2289	ALL	353591.5	3793420	7.43E-07	6.5YrCancerDerived_Inh
2290	ALL	353606.5	3793420	8.01E-07	6.5YrCancerDerived_Inh
2291	ALL	353621.5	3793420	8.68E-07	6.5YrCancerDerived_Inh
2292	ALL	353636.5	3793420	9.48E-07	6.5YrCancerDerived_Inh
2293	ALL	353651.5	3793420	1.05E-06	6.5YrCancerDerived_Inh
2294	ALL	353666.5	3793420	1.17E-06	6.5YrCancerDerived_Inh
2295	ALL	353681.5	3793420	1.35E-06	6.5YrCancerDerived_Inh
2296	ALL	353696.5	3793420	1.63E-06	6.5YrCancerDerived_Inh
2297	ALL	353366.5	3793435	3.58E-07	6.5YrCancerDerived_Inh
2298	ALL	353381.5	3793435	3.67E-07	6.5YrCancerDerived_Inh
2299	ALL	353396.5	3793435	3.80E-07	6.5YrCancerDerived_Inh
2300	ALL	353411.5	3793435	3.97E-07	6.5YrCancerDerived_Inh
2301	ALL	353426.5	3793435	4.15E-07	6.5YrCancerDerived_Inh

2302	ALL	353441.5	3793435	4.34E-07	6.5YrCancerDerived_Inh
2303	ALL	353456.5	3793435	4.52E-07	6.5YrCancerDerived_Inh
2304	ALL	353471.5	3793435	4.69E-07	6.5YrCancerDerived_Inh
2305	ALL	353486.5	3793435	4.84E-07	6.5YrCancerDerived_Inh
2306	ALL	353501.5	3793435	5.09E-07	6.5YrCancerDerived_Inh
2307	ALL	353516.5	3793435	5.37E-07	6.5YrCancerDerived_Inh
2308	ALL	353531.5	3793435	5.65E-07	6.5YrCancerDerived_Inh
2309	ALL	353546.5	3793435	5.99E-07	6.5YrCancerDerived_Inh
2310	ALL	353561.5	3793435	6.41E-07	6.5YrCancerDerived_Inh
2311	ALL	353576.5	3793435	6.92E-07	6.5YrCancerDerived_Inh
2312	ALL	353591.5	3793435	7.52E-07	6.5YrCancerDerived_Inh
2313	ALL	353606.5	3793435	8.11E-07	6.5YrCancerDerived_Inh
2314	ALL	353621.5	3793435	8.80E-07	6.5YrCancerDerived_Inh
2315	ALL	353636.5	3793435	9.60E-07	6.5YrCancerDerived_Inh
2316	ALL	353651.5	3793435	1.06E-06	6.5YrCancerDerived_Inh
2317	ALL	353666.5	3793435	1.19E-06	6.5YrCancerDerived_Inh
2318	ALL	353681.5	3793435	1.40E-06	6.5YrCancerDerived_Inh
2319	ALL	353366.5	3793450	3.66E-07	6.5YrCancerDerived_Inh
2320	ALL	353381.5	3793450	3.77E-07	6.5YrCancerDerived_Inh
2321	ALL	353396.5	3793450	3.92E-07	6.5YrCancerDerived_Inh
2322	ALL	353411.5	3793450	4.09E-07	6.5YrCancerDerived_Inh
2323	ALL	353426.5	3793450	4.28E-07	6.5YrCancerDerived_Inh
2324	ALL	353441.5	3793450	4.46E-07	6.5YrCancerDerived_Inh
2325	ALL	353456.5	3793450	4.65E-07	6.5YrCancerDerived_Inh
2326	ALL	353471.5	3793450	4.82E-07	6.5YrCancerDerived_Inh
2327	ALL	353486.5	3793450	4.96E-07	6.5YrCancerDerived_Inh
2328	ALL	353501.5	3793450	5.19E-07	6.5YrCancerDerived_Inh
2329	ALL	353516.5	3793450	5.45E-07	6.5YrCancerDerived_Inh
2330	ALL	353531.5	3793450	5.72E-07	6.5YrCancerDerived_Inh
2331	ALL	353546.5	3793450	6.06E-07	6.5YrCancerDerived_Inh
2332	ALL	353561.5	3793450	6.52E-07	6.5YrCancerDerived_Inh
2333	ALL	353576.5	3793450	7.03E-07	6.5YrCancerDerived_Inh
2334	ALL	353591.5	3793450	7.61E-07	6.5YrCancerDerived_Inh
2335	ALL	353606.5	3793450	8.20E-07	6.5YrCancerDerived_Inh
2336	ALL	353621.5	3793450	8.89E-07	6.5YrCancerDerived_Inh
2337	ALL	353636.5	3793450	9.70E-07	6.5YrCancerDerived_Inh
2338	ALL	353651.5	3793450	1.08E-06	6.5YrCancerDerived_Inh
2339	ALL	353666.5	3793450	1.22E-06	6.5YrCancerDerived_Inh
2340	ALL	353681.5	3793450	1.42E-06	6.5YrCancerDerived_Inh
2341	ALL	353366.5	3793465	3.73E-07	6.5YrCancerDerived_Inh
2342	ALL	353381.5	3793465	3.89E-07	6.5YrCancerDerived_Inh
2343	ALL	353396.5	3793465	4.05E-07	6.5YrCancerDerived_Inh
2344	ALL	353411.5	3793465	4.23E-07	6.5YrCancerDerived_Inh
2345	ALL	353426.5	3793465	4.42E-07	6.5YrCancerDerived_Inh
2346	ALL	353441.5	3793465	4.60E-07	6.5YrCancerDerived_Inh
2347	ALL	353456.5	3793465	4.78E-07	6.5YrCancerDerived_Inh
2348	ALL	353471.5	3793465	4.95E-07	6.5YrCancerDerived_Inh

2349	ALL	353486.5	3793465	5.08E-07	6.5YrCancerDerived_Inh
2350	ALL	353501.5	3793465	5.29E-07	6.5YrCancerDerived_Inh
2351	ALL	353516.5	3793465	5.54E-07	6.5YrCancerDerived_Inh
2352	ALL	353531.5	3793465	5.79E-07	6.5YrCancerDerived_Inh
2353	ALL	353546.5	3793465	6.14E-07	6.5YrCancerDerived_Inh
2354	ALL	353561.5	3793465	6.62E-07	6.5YrCancerDerived_Inh
2355	ALL	353576.5	3793465	7.13E-07	6.5YrCancerDerived_Inh
2356	ALL	353591.5	3793465	7.68E-07	6.5YrCancerDerived_Inh
2357	ALL	353606.5	3793465	8.28E-07	6.5YrCancerDerived_Inh
2358	ALL	353621.5	3793465	8.96E-07	6.5YrCancerDerived_Inh
2359	ALL	353636.5	3793465	9.76E-07	6.5YrCancerDerived_Inh
2360	ALL	353651.5	3793465	1.09E-06	6.5YrCancerDerived_Inh
2361	ALL	353366.5	3793480	3.79E-07	6.5YrCancerDerived_Inh
2362	ALL	353381.5	3793480	3.95E-07	6.5YrCancerDerived_Inh
2363	ALL	353396.5	3793480	4.13E-07	6.5YrCancerDerived_Inh
2364	ALL	353411.5	3793480	4.31E-07	6.5YrCancerDerived_Inh
2365	ALL	353426.5	3793480	4.51E-07	6.5YrCancerDerived_Inh
2366	ALL	353441.5	3793480	4.70E-07	6.5YrCancerDerived_Inh
2367	ALL	353456.5	3793480	4.86E-07	6.5YrCancerDerived_Inh
2368	ALL	353471.5	3793480	5.01E-07	6.5YrCancerDerived_Inh
2369	ALL	353486.5	3793480	5.15E-07	6.5YrCancerDerived_Inh
2370	ALL	353501.5	3793480	5.34E-07	6.5YrCancerDerived_Inh
2371	ALL	353516.5	3793480	5.56E-07	6.5YrCancerDerived_Inh
2372	ALL	353531.5	3793480	5.85E-07	6.5YrCancerDerived_Inh
2373	ALL	353546.5	3793480	6.21E-07	6.5YrCancerDerived_Inh
2374	ALL	353561.5	3793480	6.68E-07	6.5YrCancerDerived_Inh
2375	ALL	353576.5	3793480	7.17E-07	6.5YrCancerDerived_Inh
2376	ALL	353591.5	3793480	7.69E-07	6.5YrCancerDerived_Inh
2377	ALL	353606.5	3793480	8.35E-07	6.5YrCancerDerived_Inh
2378	ALL	353621.5	3793480	9.10E-07	6.5YrCancerDerived_Inh
2379	ALL	353636.5	3793480	9.94E-07	6.5YrCancerDerived_Inh
2380	ALL	353366.5	3793495	3.83E-07	6.5YrCancerDerived_Inh
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2494	ALL	353456.5	3793585	4.95E-07	6.5YrCancerDerived_Inh
2495	ALL	353471.5	3793585	5.01E-07	6.5YrCancerDerived_Inh
2496	ALL	353486.5	3793585	5.11E-07	6.5YrCancerDerived_Inh

De Soto Storage Tank - School Cancer Risk (Mitigated)

De Soto Storage Tank - School Cancer Risk (Mitigated)

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De Soto Storage Tank - School Cancer Risk (Mitigated)

De Soto Storage Tank - School Cancer Risk (Mitigated)

De Soto Storage Tank - School Cancer Risk (Mitigated)

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APPENDIX C

Biological Resources

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October 3, 2018 10649-27

Brian Gonzalez
Los Angeles Department of Water and Power
111 North Hope Street, Room 1044
Los Angeles, California 90012

Subject: ***Biological Resources Letter Report for the LADWP De Soto Tanks Project, City of Los Angeles, Los Angeles County, California***

Dear Mr. Gonzalez:

The Los Angeles Department of Water and Power (LADWP) is proposing to replace the existing 3 million-gallon (MG) De Soto Reservoir located at 11200 De Soto Avenue (Assessor's Parcel Number [APN] 2706-007-901), with two buried, pre-stressed circular concrete storage tanks immediately north of the existing reservoir site (APN 2701-003-907). The combined operating storage capacity upon completion of the new storage tanks would be approximately 20 MG, and would provide additional local storage to increase operational effectiveness, reliability, and flexibility, system redundancy, and emergency supply to the West San Fernando Valley.

The purpose of this report is to (1) describe the conditions of biological resources at the proposed road repair site and surrounding area in terms of vegetation communities, plants, wildlife, wildlife habitats, and wetlands; (2) quantify potential direct and indirect impacts to biological resources that will result from the proposed project; (3) discuss those impacts in terms of biological significance in view of federal, state, and local laws and policies; and (4) specify measures to avoid and mitigate any impacts that would occur to biological resources.

1 PROJECT LOCATION AND EXISTING CONDITIONS

This biological technical report describes the existing biological conditions of the approximately 17.9-acre proposed De Soto Tanks Project (project). The project site is located at 11200 De Soto Avenue, within the Chatsworth community of City of Los Angeles (City), Los Angeles County, California (Figure 1; all figures are provided in Attachment A), and is generally bounded by State Route (SR) 118 to the north, De Soto Avenue to the west, Rinaldi Street to the south and east. This biological report includes an assessment of the undeveloped public easement (APN 2707-001-904) and privately owned parcels of land (APNs 2707-001-058, 2707-001-059, 2707-001-060) located east of the existing De Soto Reservoir properties that would be acquired in order to facilitate construction of the proposed project.

The biological evaluation includes the project site, approximately 17.9 acres, plus a surrounding 500-foot buffer, herein referred to as the "study area," totaling 87.8 acres. The study area is located in the southeastern portion of the Oat Mountain U.S. Geological Survey (USGS) 7.5-minute quadrangle within Section 8, Township 2 North, Range 16 West. The project site is characterized by relatively flat areas with some rolling hills in the northeast corner and along the northern extent of the property with elevations on site ranging approximately between 1,088 and 1,191 feet above mean sea level. The site is accessible via De Soto Avenue from the west and Rinaldi Street from the east. Figure 1 shows the regional and local vicinity of the study area.

2 PROJECT DESCRIPTION

The existing De Soto Reservoir, located in the northwestern area of the San Fernando Valley, was built in 1941. It has a base elevation of 1,100 feet above mean sea level and a high water level of 1,123 feet. In order to maintain appropriate operating pressure, the two proposed buried pre-stressed concrete tanks would have a base elevation of 1,100 feet, a high water level of 1,130 feet, and a top of tank elevation of 1,140 feet. Excavation at the proposed project site would be required to bury the tanks, which would be approximately 240 feet in diameter and 40 feet in height, below existing grade level in order to achieve these target elevations.

Construction of the De Soto Tanks Project would also require the installation of new inlet pipelines that would connect to the LADWP Rinaldi Trunk Line and outlet pipelines that would connect to the LADWP De Soto Trunk Line and Granada Trunk Line (see Figure 2: Site Plan). These new lines would be a total of approximately 2,500 linear feet and would be located within the proposed project site on LADWP property, and within public rights-of-way associated with Rinaldi Street and De Soto Avenue. A new regulator station would also be required to reduce water pressure from the Rinaldi Trunk Line originating at the Los Angeles Aqueduct Filtration Plant, which is located in Sylmar and has a 1,190-foot-high water elevation.

Upon completion of the De Soto Tanks, a new pump station (the De Soto Pump Station) would be constructed in the location of the De Soto Reservoir, which would be removed. The pump station would be used to more efficiently and effectively supply water to various pressure zones in the distribution system of the west San Fernando Valley.

Construction Methods

The proposed project involves excavation of the site north of the existing De Soto Reservoir to a depth of approximately 50 feet, followed by the construction of two pre-stressed concrete tanks, each of which would be approximately 240 feet in diameter and approximately 40 feet in height. Excavated material would be hauled from the project site via the 118 Freeway to a facility

permitted to accept excavated soil materials. Upon completion of the tanks, the existing reservoir would be demolished in order to facilitate construction of the future pump station.

Excavation for the tanks would involve the use of heavy equipment, including excavators, front loaders, and dozers. Based on preliminary estimates, approximately 350,000 loose cubic yards of soil would need to be excavated at the project site to accommodate the tanks. Some of this material would be used to backfill around the tanks once they are constructed. However, the majority of the excavated material would be hauled off site, requiring several thousand truck trips. Excavation and hauling would occur over a period of about 8 months. After excavation, the tank construction would entail the installation of inlet/outlet pipes, a reinforced concrete floor, the erection of scaffolding for the walls and roof, the installation of wall and roof panels, the construction of columns to support the roof, wrapping the tanks with pre-stressing cables, and the application of concrete on the walls and roof. This process would involve the delivery of materials and concrete and the use of heavy equipment, including cranes and concrete pump trucks.

After completion of the tanks, the area surrounding the tanks would be backfilled, and a perimeter road would be constructed around the tanks for maintenance access. All cut slopes from excavation would be properly stabilized and revegetated. Although the tanks themselves would be buried, the roof of the tanks would not be covered. However, the top of the tanks would be approximately 10 feet below the surrounding grade.

New pipelines, the inlets, and outlets pipelines of the tanks would be constructed on site and within the rights-of-way associated with Rinaldi Street and De Soto Avenue. After completion of the tanks and pipelines, the existing De Soto Reservoir would be demolished and the new pump station would be constructed.

Access to and egress from the site during construction would be from Rinaldi Street on the east and/or De Soto Avenue on the west. Construction of the proposed project would take approximately 6 years to complete, beginning in late-2020.

Operations

As discussed above, the proposed tanks would store potable water to increase operational effectiveness, reliability, and flexibility; system redundancy; and emergency supply to the West San Fernando Valley. The proposed pressure regulator station would reduce the water pressure coming from Los Angeles Aqueduct Filtration Plant, which has a 1,190-foot-high water elevation, to the De Soto Tanks, which have a 1,130-foot-high water elevation. The proposed De Soto Pump Station would pump water from the De Soto Tanks to the 1,305-foot pressure zone in the southwest

valley. No workers would be required to operate these facilities on a daily basis; however, these facilities would require regular maintenance. As such, operational activities would be essentially the same as those that occur under existing conditions.

3 METHODS

3.1 Literature Review

A literature and database review was conducted to evaluate the environmental setting of the project and to identify potential special-status biological resources that may be found in the project site and surrounding study area. The most recent versions of the California Natural Diversity Data Base (CNDDB; CDFW 2018a) and special-status species lists (CDFW 2018b–2018e), as well as the California Native Plant Society's (CNPS) *Inventory of Rare, Threatened, and Endangered Plants* (CNPS 2018) were reviewed to identify sensitive biological resources present or potentially present for the USGS 7.5-minute quadrangle on which the project site is located (i.e., Oat Mountain) and the eight surrounding quadrangles (i.e., Val Verde, Mint Canyon, Newhall, Santa Susana, San Fernando, Calabasas, Canoga Park, and Van Nuys). The USFWS occurrence data (USFWS 2018a) was queried in ArcGIS to determine other species present in the region with potential to occur on site, as well as for any federally designated critical habitat in the area (USFWS 2018a).

Potential and/or historic drainages and aquatic features were investigated based on a review of USGS topographic maps (1:24,000 scale), aerial photographs, the USFWS National Wetland Inventory database (USFWS 2018b), and the Natural Resources Conservation Service's (NRCS) Web Soil Survey (USDA 2018a).

3.1.1 USGS Topographic and Watershed Map Review

The USGS 7.5-minute Oat Mountain, California topographic map was utilized to identify natural and man-made features occurring within the study area. Information obtained from the map included contour lines, streets, streams, structures, and vegetation.

One unnamed flume and/or underground pipeline occurs just south of the project site and crosses the project site along its southeast corner. No other aquatic features or significant structural features are identified on the map within the study area's boundaries.

The study area occurs 50 feet east of the Browns Canyon Wash (USGS HUC18: 180701050202) of the Los Angeles River watershed (USGS HUC18: 18070105). The Los Angeles River

watershed extends from the Santa Susana Mountains and San Gabriel Mountains to the Pacific Ocean and occurs almost entirely within Los Angeles County.

3.1.2 Soil Survey Review

According to the NRCS Web Soil Survey (USDA 2018), the project site occurs within the soil survey conducted for Los Angeles County, California within the West San Fernando Valley Area (USDA et al. 1980). Nine different soil types and land covers are mapped within the study area (Figure 3) and described as follows:

- **Anacapa sandy loam, 2 to 9 percent slopes (100).** These soils support a well-drained, young alluvium that is derived mostly from sandstone and shale.
- **Badland (102).** This mapping unit is made up of un-vegetated, steep slopes that support weakly consolidated shale and sandstone.
- **Balcom silty clay loam, 9 to 15 percent slopes (103).** These well-drained, strongly sloping soils support material weathered in place from soft shale and sandstone.
- **Balcom silty clay loam, 15 to 30 percent slopes (104).** These well-drained, moderately steep soils support material weathered in place from soft shale and sandstone.
- **Chualar-Urban land complex, 2 to 9 percent slopes (109).** This mapping unit mainly supports a well-drained, old alluvium that is derived mainly from sandstone and granitic rock. This unit also supports urban land covered by roads, parking lots, and buildings, under which extensive cutting and filling has occurred during urban development.
- **Gaviota sandy loam, 9 to 30 percent slopes (116).** These shallow, well-drained soils support material weathered in place from hard sandstone.
- **San Emigdio-Urban land complex, 0 to 2 percent slopes (127).** This mapping unit mainly supports a well-drained soil formed in young alluvium from mixed rock sources. This unit also supports urban land covered by roads, parking lots, and buildings, under which some grading and filling has occurred during urban development.
- **Soper gravelly sandy loam, 15 to 30 percent slopes (132).** These well-drained, moderately steep soils were formed in material that was weathered in place from conglomerate and sandstone.
- **Water (144).** This mapping unit consists of areas with 100% water generally found associated with reservoirs and ponds.

3.1.3 National Wetlands Inventory Review

After reviewing the National Wetlands Inventory dataset, no wetland types were identified within the project's study area (USFWS 2018b). Two wetland types associated with Browns Canyon Creek occur within the general vicinity of the project, approximately 50 feet west of the project's study area.

The following two wetland types correspond with Browns Canyon Creek:

- **R4SBCr (Riverine, intermittent, streambed, seasonally flooded, artificial substrate)** – This type of wetland includes artificial channels/streambeds that support flowing water periodically. Surface water is present for extended periods but absent by the end of the growing season in most years. The water table typically occurs well below the soil surface. This resource does not occur within the study area and is not mapped.
- **R4SBAr (Riverine, intermittent, streambed, temporarily flooded, artificial substrate)** – This type of wetland includes artificial channels/streambeds that support flowing water periodically. Surface water is present for brief periods during the growing season. The water table usually occurs well below the soil surface for most of the season. This resource does not occur within the study area and is not mapped.

Browns Canyon Creek or Browns Canyon Wash is a concrete-lined channel that does not support vegetation. It generally flows from north to south when surface water is present. This drainage is a tributary to the Los Angeles River with its confluence into Los Angeles River located approximately 1.7 miles south of Roscoe Boulevard. Browns Canyon Creek is located outside of the study area, approximately 550 feet from the project site, where no impacts are anticipated to occur, and therefore is not analyzed further.

3.2 Field Surveys

Dudek conducted several biological surveys between April 2018 and July 2018, including general plant and wildlife surveys, vegetation mapping, habitat assessment for special-status species, a formal jurisdictional delineation, focused special-status/rare plant surveys, and focused surveys for special-status/regulated wildlife species (Table 1). Protocol-level presence/absence surveys were conducted for the following listed species: coastal California gnatcatcher (*Polioptila californica californica*; CAGN), burrowing owl (*Athene cunicularia*; BUOW). Survey schedule and conditions are listed below in Table 1.

Table 1
Survey Dates and Conditions

Date	Time	Personnel	Focus	Conditions
6/20/2017	0700–1101	JP	General Biological Survey, Vegetation Mapping, Habitat Assessments	76°F–95°F, 0% cc, 0–1 mph wind
4/4/2018	0745–930	JP, TP	BUOW Habitat Assessment BUOW Focused Survey Pass 1	52°F–61°F, 95–100% cc, 0–2 mph wind
4/4/2018	0930–1350	JP, TP	Special-Status Plants Survey, April Pass Jurisdictional Delineation	61°F–75°F, 0–95% cc, 0–5 mph wind
4/25/2018	0930–1140	PL	CAGN Focused Survey Pass 1	66°F–73°F, 5–10% cc, 0–3 mph wind
5/2/2018	0725–0940	MB	CAGN Focused Survey Pass 2	56°F–59°F, 100% cc, 0–2 mph wind
5/9/2018	1025–1200	PL	CAGN Focused Survey Pass 3	73°F–79°F, 0% cc, 1–5 mph wind
5/23/2018	1005–1150	PL	CAGN Focused Survey Pass 4	60°F–63°F, 100% cc, 1–4 mph wind
5/29/2018	0615–0645	TP	BUOW Focused Survey Pass 2	62°F–64°F, 100% cc, 0–3 mph wind
6/4/2018	0930–1145	PL	CAGN Focused Survey Pass 5	73°F–78°F, 0% cc, 1–4 mph wind
6/19/2018	0720–0848	MB	CAGN Focused Survey Pass 6	62°F–64°F, 5% cc, 0–1 mph wind
6/21/2018	0545–0610	JP	BUOW Focused Survey Pass 3	61°F, hazy skies with good visibility, 0–3 mph wind
7/13/2018	0700–0730	TP	BUOW Focused Survey Pass 4	72°F–74°F, 5% cc, 0–2 mph wind
7/13/2018	0745–1100	TP, TM	Special-Status Plants Survey, July Pass	75°F–91°F, 0–5% cc, 0–2 mph wind

Personnel: JP = Johanna Page; TP = Tracy Park; PL = Paul Lemons; MB = Melissa Blundell; TM = Tommy Molioo
Conditions: °F = degrees Fahrenheit; cc = cloud cover; mph = miles per hour

3.2.1 Biological Reconnaissance-Level Survey

Dudek biologist Johanna Page conducted a general biological survey of the study area on June 20, 2017. All native and naturalized plant species encountered in the study area were identified and recorded. Representative site photographs of the project site were taken and are included in Attachment B. The potential for special-status plant and wildlife species to occur within the study area was evaluated based on the vegetation communities and soils present. Dudek used the California Department of Fish and Wildlife's (CDFW')s *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (CDFW 2009) and *List of Vegetation Alliances and Associations* (CDFG 2010), also referred to as the Natural Communities

List, to map the entire study area. Vegetation communities and land covers were delineated to the vegetation alliance level, and where appropriate the association level. Some modifications were incorporated to accommodate the lack of conformity of the observed communities to those included in these references.

Latin and common names for plant species with a California Rare Plant Rank (CRPR) follow the CNPS *Inventory of Rare and Endangered Plants* (CNPS 2018). For plant species without a CRPR, Latin names follow the *Jepson Interchange List of Currently Accepted Names of Native and Naturalized Plants of California* (Jepson Flora Project 2018) and common names follow the U.S. Department of Agriculture's NRCS Plants Database (USDA 2018). Latin and common names of animals follow Crother (2008) for reptiles and amphibians, American Ornithologists' Union for birds (AOU 2016), Wilson and Reeder (2005) for mammals, North American Butterfly Association (NABA 2016) or San Diego Natural History Museum for butterflies (SDNHM 2002), and Moyle (2002) for fish.

3.2.2 Jurisdictional Delineation

Dudek biologists Johanna Page and Tracy Park conducted a delineation of jurisdictional wetlands and waters within the study area on April 4, 2018, for the following types of features:

- Waters of the United States, including wetlands, under the jurisdiction of the U.S. Army Corps of Engineers (USACE), pursuant to Section 404 of the federal Clean Water Act
- Waters of the state under the jurisdiction of the California Regional Water Quality Control Board, pursuant to Section 401 of the federal Clean Water Act and the Porter-Cologne Water Quality Control Act
- Streambeds under the jurisdiction of CDFW, pursuant to Section 1602 of the California Fish and Game Code

Non-wetland waters of the United States were delineated based on the presence of an ordinary high water mark as determined using the methodology in *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (USACE 2008a). Wetland waters of the United States were delineated based on methodology described in the 1987 *Wetlands Delineation Manual* (USACE 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (USACE 2008b). In accordance with the California Fish and Game Code, streambeds are determined based on the presence of a definable bed and bank and are delineated from top of bank to top of bank or the extent of associated riparian vegetation. Drainage features were delineated using a GPS handheld

unit with sub-meter accuracy. The delineation was completed in support of a Preliminary Approved Determination from the USACE.

Dudek GIS specialist Spenser Lucarelli mapped biological resources into a GIS coverage, and provided figures using ArcGIS software.

3.2.3 Focused Special-Status Plant Surveys

Special-status plant surveys were conducted to determine the presence or absence of plant species that are considered endangered, rare, or threatened under California Environmental Quality Act Guidelines, Section 15380 (14 CCR 15000 et seq.).

Dudek biologists Johanna Page, Tracy Park, and Tommy Molioo conducted early spring and late summer plant survey passes to maximize detection of blooming special-status plants (Table 1). Focused surveys were conducted in April and July 2018, during the blooming period of special-status plant species with a moderate to high potential to occur within the vicinity of the study area.

All plant species encountered during the surveys were recorded and identified to subspecies or variety, if applicable and feasible, to determine sensitivity status. Latin and common names for plant species with a California Rare Plant Rank (CRPR) follow the California Native Plant Society (CNPS) Online Inventory of Rare, Threatened, and Endangered Plants of California (CNPS 2018). For plant species without a CRPR, Latin names follow the Jepson Interchange List of Currently Accepted Names of Native and Naturalized Plants of California (Jepson Flora Project 2018), and common names follow the USDA NRCS PLANTS Database (USDA 2018). A cumulative list of plant species observed on the study area is presented in Attachment C.

3.2.4 Focused Burrowing Owl Surveys

Focused breeding season burrowing owl surveys were conducted in accordance with the March 7, 2012, Staff Report on Burrowing Owl mitigation (CDFW 2012). Dudek biologists Johanna Page and Tracy Park conducted four survey passes between April 2018 and July 2018, under suitable weather conditions, between morning civil twilight and 10:00 a.m. (Table 1). Surveys were scheduled at least three weeks apart as per CDFW protocol, with the first survey visit between February 15 and April 15, two survey visits between April 15 and June 15, and one survey visit after June 15. The first visit included a habitat assessment concurrent with searching for suitable burrows and burrowing owls.

Dudek biologists conducted the survey on foot by slowly walking transects to inspect all vegetation for evidence of burrowing owl within the project site as well as the surrounding 500-foot buffer area.

The surveys covered all portions of site that included suitable burrowing owl habitat (i.e., short, sparse vegetation with few shrubs, level to gentle topography and well-drained soils). Pauses were taken to scan the area with appropriate binoculars (10x42 magnification) to search for burrowing owls. Any potentially suitable burrows or burrow surrogates (e.g., rock cavities, pipes, culverts, debris piles with crevices) greater than 11 centimeters in diameter were mapped using a GPS handheld unit with sub-meter accuracy and inspected for burrowing owl sign (e.g., owl pellets, white wash, abundant insect remains, feathers).

3.2.5 Focused California Gnatcatcher Surveys

The presence/absence focused survey for coastal California gnatcatcher (CAGN) was conducted for the project between April 25 and June 18, 2018 (Table 1). The survey area for CAGN included suitable coastal scrub habitat within the project site and a 500-foot buffer, as depicted in figures included in Attachment D. USFWS-designated critical habitat for this species is located approximately 0.2 miles northwest of the Project site, north of SR-118.

The survey was conducted following the currently accepted USFWS protocol, *Coastal California Gnatcatcher (Polioptila californica californica) Presence/Absence Survey Protocol* (USFWS 1997). The survey included six visits at a minimum of 7-day intervals. In accordance with the protocol, no more than 80 acres of suitable habitat were surveyed by a single biologist during each site visit. Survey routes allowed for complete audible and visual coverage of all suitable CAGN habitat on site.

A 200-scale topographic map (1 inch = 200 feet) overlain with vegetation polygons and the study area was utilized during the survey. Additionally, digital mobile maps were utilized during the surveys to assist in navigating each survey area and mapping gnatcatchers, if present. Weather conditions, time of day, and season were appropriate for the detection of gnatcatchers and are provided in Table 1. Appropriate binoculars (e.g., 10x50 magnification) were used to aid in detecting and identifying bird species. A recording of gnatcatcher vocalizations was played approximately every 100 to 200 feet to induce responses from potentially present gnatcatchers. Vocalization-playback would have been terminated immediately upon detection of any gnatcatchers to minimize the potential for harassment. All other avian species detected during surveys were recorded and are included in Attachment D.

4 RESULTS

4.1 Vegetation Communities and Land Covers

Eight vegetation communities and land cover types were identified within the 87.8-acre study area during the biological resource evaluation: California buckwheat scrub, eucalyptus groves, non-native grassland, upland mustards, concrete-lined channel, disturbed habitat, ornamental vegetation, and urban/developed. These vegetation communities and land cover types are described below, their acreages are presented in Table 2, and their spatial distributions are presented on Figure 4. No special-status vegetation communities occur within the study area.

Table 2
Vegetation Communities and Land Cover Types

Vegetation Community or Land Cover Type	Acreage within Project Site	Acreage within the Surrounding 500-foot Buffer
Upland Native or Naturalized Vegetation Types		
California Buckwheat Scrub (ERIFAS)	4.37	6.57
Eucalyptus Groves [EG(SNS)][1]	---	2.31
Non-Native Grassland (NNG)	3.46	0.53
Upland Mustards [UM(SNS)][1]	4.87	3.74
Subtotal	*12.70*	*13.15*
Non-Natural Land Cover Types		
Concrete-Lined Channel (CC)	0.03	0.14
Disturbed Habitat (DH)	2.54	2.64
Ornamental Vegetation (ORN)	0.72	18.17
Urban/Developed (DEV)	1.92	35.83
Subtotal	*5.21*	*56.78*
Total[2]	**17.92**	**69.93**

Notes:
[1] The term semi-natural stands (SNS) vs. alliance is used in the Manual of California Vegetation to distinguish between native vegetation communities and vegetation types dominated by non-native plants.
[2] Total may not sum due to rounding.

4.1.1 California Buckwheat Scrub

California buckwheat scrub is an herbaceous coastal scrub dominated or co-dominated by California buckwheat (*Eriogonum fasciculatum*) that typically occurs on dry slopes, washes, and canyons and coastal bluffs (Gordon and White 1994). Characteristic plant species in this community include California sagebrush (*Artemisia californica*), chaparral mallow (*Malacothamnus fasciculatus*), goldenbush scrub (*Isocoma menziesii*), coyote brush (*Baccharis*

pilularis), deer weed (*Acmispon glaber*), black sage (*Salvia mellifera*), and white sage (*Salvia apiana*) (Sawyer et al. 2009).

Plant species recorded within California buckwheat scrub habitat include Eastern Mojave buckwheat (*Eriogonum fasciculatum* var. *foliolosum*), California sagebrush, clustered tarweed (*Deinandra fasciculata*), laurel sumac (*Malosma laurina*), toyon (*Heteromeles arbutifolia*), shortpod mustard (*Hirschfeldia incana*), horehound (*Marrubium vulgare*), red brome (*Bromus madritensis ssp. rubens*), common deerweed (*Acmispon glaber* var. *glaber*), Maltese star-thistle (*Centaurea melitensis*), black sage, winecup clarkia (*Clarkia purpurea*), blue elderberry (*Sambucus nigra* ssp. *caerulea*), slender oat (*Avena barbata*), California four o'clock (*Mirabilis laevis*), and chaparral yucca (*Hesperoyucca whipplei*). California buckwheat scrub occurs within the hillsides that dominate the northwestern portion and northern extent of the project site. California buckwheat scrub alliance has a rank of G5S5, which means it is secure (i.e., community demonstrably secure due to common and widespread abundance) globally and sub-nationally. This vegetation community is not considered sensitive by local, state, and/or federal agencies.

4.2.2 Eucalyptus Groves Semi-Natural Stands

Eucalyptus grove (semi-natural stands) is a distinct naturalized vegetation type that is fairly widespread in Southern California and is considered a woodland habitat. It typically consists of monotypic stands of introduced Australian eucalyptus tree (*Eucalyptus* spp.), where the understory is either depauperate or absent (Holland 1986). The following nine species of eucalyptus species are commonly found in California: river redgum (*Eucalyptus camaldulensis*), lemonscented gum (*Eucalyptus citriodora*), sugargum (*Eucalyptus cladocalyx*), bluegum (*Eucalyptus globulus*), redbox (*Eucalyptus polyanthemos*), silver-leaved mountain gum (*Eucalyptus pulverulenta*), red ironbark (*Eucalyptus sideroxylon*), forest redgum (*Eucalyptus tereticornis*), and manna gum (*Eucalyptus viminalis*) (Sawyer et al. 2009).

Plant species recorded within eucalyptus groves habitat include river redgum and lemonscented gum. These stands of eucalyptus occur north of the project site, adjacent to SR-118.

4.2.3 Non-native Grassland

Non-native grassland is a general habitat that is characterized by a dense to sparse cover of weedy introduced annuals. It typically occurs within fine-textured clay soils, adjacent to roads or other developed areas where there has been some historic disturbance. Characteristic plant species in this community include wild oats, bromes (*Bromus* spp.), fescue (*Festuca* spp.), Italian ryegrass

(*Lolium multiflorum*), black mustard (*Brassica nigra*), filaree (*Erodium* spp.), and Russian thistle (*Salsola tragus*) (Holland 1986).

Plant species recorded within non-native grassland habitat include red brome, ripgut brome (*Bromus diandrus*), slender oat (*Avena barbata*), dove weed (*Croton setiger*), black mustard (*Brassica nigra*), shortpod mustard (*Hirschfeldia incana*), common fiddleneck (*Amsinckia intermedia*), Maltese star-thistle (*Centaurea melitensis*), vinegarweed (*Trichostema lanceolatum*), redstem stork's bill (*Erodium cicutarium*), common sowthistle (*Sonchus oleraceus*), sacred thorn-apple (*Datura wrightii*), common deerweed, and common sand aster (*Corethrogyne filaginifolia*). On site, non-native grassland occurs immediately west, north, and northeast of the existing reservoir. The vegetation community appears to be routinely disturbed by mowing, which was indicative during the June 2017 and July 2018 site visit. This vegetation community is not considered sensitive by local, state, and/or federal agencies.

4.2.4 Upland Mustards Semi-natural Stands

Upland mustard (semi-natural stands) is a naturalized vegetation community dominated by a thick layer of herbaceous mustard plants and few other plant species interspersed within an open to continuous canopy. Emergent trees and shrubs may be present at low cover (Sawyer et al. 2009). This habitat often occurs in fallow fields, grasslands, roadsides, levee slopes, disturbed coastal scrub riparian areas, and dumping sites. Characteristic plant species in this community include black mustard, field mustard (*Brassica rapa*), Asian mustard (*Brassica tournefortii*), shortpod mustard, dyer's woad (*Isatis tinctoria*), and cultivated radish (*Raphanus sativus*) (Sawyer et al. 2009).

Plant species recorded within upland mustard habitat include shortpod mustard, black mustard, red brome, doveweed, Eastern Mojave buckwheat, common sunflower (*Helianthus annuus*), common sowthistle, redstem stork's bill, and clustered tarweed (*Deinandra fasciculata*). Upland mustard (semi-natural stands) occurs in the northern portion of the project site. The vegetation community appears to be routinely disturbed as evidenced by compacted soils and was dominated by overgrown mustard stands during the June 2017 and July 2018 site visit. This vegetation community is not considered sensitive by local, state, and/or federal agencies.

4.2.5 Concrete-Lined Channel

The concrete-lined channel mapping unit is not recognized by *A Manual of California Vegetation* (Sawyer et al. 2009). Concrete-lined channels are characterized by un-vegetated engineered channels lined with concrete that are designed to convey low-frequency, high-volume surface

water flows. A concrete-lined v-ditch occurs along the base of a hillside immediately west and south of the graded parking lot in the eastern portion of the project site. Another concrete-lined v-ditch occurs along the northeastern border of the project site. Concrete-lined channels are not wetlands due to the lack of hydrophytic vegetation and/or soils.

4.2.6 Disturbed Habitat

Disturbed habitat refers to areas that are not developed yet lack vegetation and generally are the result of severe or repeated mechanical perturbation. Areas mapped as disturbed land may include unpaved roads, trails, and graded areas. Vegetation in these areas, if present at all, is usually sparse and dominated by non-native weedy herbaceous species.

Disturbed habitat within the study area is limited to dirt roads, trails, gravel areas, and bare ground adjacent to roads. Disturbed habitat occurs across the center of the project site and continues as large patches within the eastern portion of the project site and 500-foot buffer. Disturbed habitat is not considered sensitive by local, state, and/or federal agencies.

4.2.7 Ornamental Vegetation

Ornamental vegetation consists of introduced plantings of exotic species as landscaping, including greenbelts, parks, and horticultural plantings (Jones and Stokes 1993). Ornamental plantings within the study area are dominated by Italian cypress (*Cupressus sempervirens*), Washington fan palm (*Washingtonia robusta*), Peruvian peppertree (*Schinus molle*), Indian laurel fig (*Ficus microcarpa*), various ornamental pines (*Pinus* spp.), blue jacaranda (*Jacaranda mimosifolia*), river redgum (*Eucalyptus camaldulensis*), lemon-scented gum (*Eucalyptus citriodora*), European olive (*Olea europaea*), Chinese elm (*Ulmus parvifolia*), Canary Island date palm (*Phoenix canariensis*, oleander (*Nerium oleander*), and regularly maintained lawns and sports fields (i.e., baseball field, football field). Ornamental plantings occurs within the western and northern portion of the study area and is also scattered along the southern extent of the project site. Ornamental vegetation is not considered sensitive by local, state, and/or federal agencies.

4.2.8 Urban/Developed Land

Developed lands consist of buildings, structures, homes, parking lots, paved roads, and maintained areas. This land cover type does not support native vegetation. Developed land is dominant within the 500-foot buffer area that surrounds the project site. This mapping unit is composed of residential development, paved well-traversed city roads, and SR-118. These areas support limited

natural ecological processes, native vegetation, or habitat for wildlife species and, thus, are not considered sensitive by local, state, or federal agencies.

4.3 Floral Diversity

A total of 90 species of vascular plants were recorded within the study area, consisting of 47 native (52%) and 43 non-native (48%) species. Plant species observed within the study area are listed in Attachment C.

4.4 Wildlife

A total of 54 species of wildlife were recorded within the study area (Attachment E). Due to the diurnal nature of the field surveys conducted for this project, most species observed were birds. Common species observed include, but are not limited to Allen's hummingbird (*Selasphorus sasin*), American crow (*Corvus brachyrhynchos*), barn swallow (*Hirundo rustica*), Bewick's wren (*Thryomanes bewickii*), black phoebe (*Sayornis nigricans*), bushtit (*Psaltriparus minimus*), California scrub-jay (*Aphelocoma californica*), California towhee (*Melozone crissalis*), house finch (*Haemorhous mexicanus*), lesser goldfinch (*Spinus psaltria*), mourning dove (*Zenaida macroura*), northern mockingbird (*Mimus polyglottos*), Cassin's kingbird (*Tyrannus vociferans*), and white-throated swift (*Aeronautes saxatalis*). No active bird nests were observed within the study area during the reconnaissance survey; however, the ornamental and native vegetation within the study area could support nesting birds.

No amphibian species were observed within the study area. Reptile species observed include western fence lizard (*Sceloporus occidentalis*) and common side-blotched lizard (*Uta stansburiana*). Seven mammal species were detected during the survey: Botta's pocket gopher (*Thomomys bottae*), brush rabbit (*Sylvilagus bachmani*), California ground squirrel (*Otospermophilus beecheyi*), coyote (*Canis latrans*), desert cottontail (*Sylvilagus audubonii*), raccoon (*Procyon lotor*), and woodrat (*Neotoma* sp.). All wildlife species recorded within the study area are listed in Attachment E.

4.5 Special-Status Plant Species

Special-status plants include those listed, or candidates for listing, as threatened or endangered by USFWS or CDFW, or species identified as rare by CNPS (particularly CRPR 1A – Presumed extinct in California; CRPR 1B – Rare, threatened, or endangered throughout its range; and CRPR 2 – Rare or Endangered in California, more common elsewhere). A total of 50 special-status plant species were reported in the CNDDB, USFWS, and CNPS databases as occurring in the vicinity of the study area. Figure 5 depicts Special-Status Species Occurrences. Attachment F summarizes

the special-status plant species that were included in these databases and evaluated as part of this assessment. For each species evaluated, a determination was made regarding the potential for the species to occur on site based on information gathered during the field reconnaissance, including the location of the site, habitats present, current site conditions, and past and present land use.

No special-status plant species were detected within the study area. Additionally, there is no USFWS-designated critical habitat for listed plant species within the study area (USFWS 2018).

Of the 50 special-status plant species listed in the CNDDB, CNPS, and USFWS databases as occurring in the vicinity of the study area, 25 species were determined to have no potential to occur within the study area based on an evaluation of species ranges/elevation and known habitat preferences. The remaining 25 special-status species were determined to have a low potential to occur due to limited suitable habitat within the study area. No species were determined to have at least a moderate potential to occur within the study area based on the negative results of focused botanical surveys conducted in April and July 2018.

4.6 Special-Status Wildlife Species

Special-status wildlife include those listed, or candidates for listing, as threatened or endangered by USFWS or CDFW, or designated as a Species of Special Concern by CDFW. A total of 42 special-status wildlife species were reported in the CNDDB and USFWS databases as occurring in the vicinity of the study area. Attachment G summarizes the special-status wildlife species that were included in these databases and evaluated as part of this assessment. For each species evaluated, a determination was made regarding the potential use of the site based on information gathered during the field reconnaissance, known habitat preferences, and knowledge of their relative distributions in the area.

No wildlife species listed or proposed for listing as rare, threatened, or endangered by either CDFW or USFWS were detected within the study area during surveys conducted for the project.

Of the 42 special-status wildlife species listed in the CNDDB and USFWS databases as occurring in the vicinity of the study area, 22 species were determined to have no potential to occur within the study area based on an evaluation of species ranges/elevation and known habitat preferences. Additionally, species such as coastal California gnatcatcher and burrowing owl are not expected to occur due to negative findings during focused surveys. A total of 11 special-status species were determined to have a low potential to occur due to limited suitable habitat within the study area. Two special-status wildlife species have a moderate potential to occur within the study area based on the vegetation communities (habitat) present, elevation range, and previous known locations:

Cooper's hawk (*Accipiter cooperi*), and San Diego desert woodrat (*Neotoma lepida intermedia*) (Table 3).

Table 3
Special-Status Wildlife Species Detected or with a Moderate to High Potential to Occur within the Study Area

Scientific Name	Common Name	Federal/State Status	Potential to Occur within Study Area
	Birds		
Accipiter cooperi	Cooper's hawk	None/WL	Moderate
	Mammals		
Neotoma lepida intermedia	San Diego desert woodrat	None/SSC	Moderate

Federal Status
None: No federal status.
State Status
WL: CDFW Watch List Species
SSC: California Species of Special Concern

4.7 Focused Burrowing Owl Surveys

There were no burrowing owls or BUOW signs detected within the study area (project site plus 500-foot buffer). Therefore, burrowing owls are considered to be absent from the study area. A full list of bird species observed during the survey is included in Attachment E.

4.8 Focused California Gnatcatcher Surveys

There were no California gnatcatchers or CAGN nests detected within the study area. Therefore, California gnatcatchers are considered to be absent from the study area. No brown-headed cowbirds were detected during CAGN surveys. A full list of bird species observed during the survey is included in Attachment D.

4.9 Jurisdictional Waters

The formal jurisdictional delineation conducted for the project identified two non-jurisdictional concrete v-ditches. No jurisdictional waters or wetlands were identified within the study area.

The investigated non-jurisdictional features are located within the eastern portion of the project site, mapped as concrete channels (CC) in Figure 4. Based on review of USGS and NHD data, a drainage historically occurred just south of the project site and crossed the project site along its southeast corner. A flume and/or underground pipeline has now replaced this drainage. According

to review of historical aerial imagery, there is no indication of surface flow on the project site, dating back to 1994 (Google Earth 2018). Grading within the eastern portion of the project site took place in 2006 and 2007, during which the investigated v-ditches were constructed to collect run-off from the pad slopes and to direct water towards the stormwater system. These v-ditches were constructed in uplands, confirmed by surrounding vegetation that is typical of the California buckwheat scrub vegetation community, and is limited to upland plant species. Therefore, due to a lack of a clearly defined OHWM, continuous bed and bank, and associated indicators (e.g., sediment flow, shelving, water marks, and wetland vegetation), Dudek determined these features to be not subject to regulatory agency (USACE/RWQCB and CDFW) jurisdiction.

4.10 Nesting Birds

The vegetation on site provides potentially suitable habitat for commonly occurring nesting birds, including Anna's hummingbird or California towhee. In addition, the tall trees (e.g., eucalyptus trees) scattered throughout the study area provide potential nesting habitat for raptor species such as red-tailed hawk, red-shouldered hawk, and Cooper's hawk (*Accipiter cooperii*). Suitable nesting habitat exists within the project site and surrounding areas; thus, birds could nest within the study area.

4.11 City of Los Angeles Protected Trees

The City of Los Angeles Protected Tree Ordinance, as modified by Ordinance 177404, provides guidelines for the preservation of native Southern California tree species measuring 4 inches or more in cumulative diameter at 4.5 feet above the ground from the base of the tree (City of Los Angeles 2006). Trees protected under this ordinance include all oak trees indigenous to California (excluding scrub oak (*Quercus dumosa*)), Southern California black walnut (*Juglans californica* var. *californica*), California sycamore (*Platanus racemosa*), and California bay (*Umbellularia californica*).

One protected valley oak tree as defined in the City of Los Angeles Protected Tree Ordinance occurs within the project site, located east of the existing De Soto Reservoir (Figure 4).

Six protected California sycamores are located within the study area. Three of these sycamores are located along the southeastern boundary of the project, while the other three sycamores are located east of the graded parking lot (Figure 4).

4.12 Regional Resource Planning Context

The project site and surrounding study area is located in the City of Los Angeles (City), within the neighborhood of Chatsworth. The City of Los Angeles General Plan provides city-wide context for 35 community plans, which together establish the Land Use Element of the City's General Plan. The project site has a generalized land use of 'very low II residential' within the Chatsworth-Porter Ranch Community Plan.

4.13 Wildlife Corridors and Habitat Linkages

Wildlife corridors are linear features that connect large patches of natural open space and provide avenues for the migration of animals. Wildlife corridors contribute to population viability by assuring continual exchange of genes between populations, providing access to adjacent habitat areas for foraging and mating, and providing routes for recolonization of habitat after local extirpation or ecological catastrophes (e.g., fires).

Habitat linkages are small patches that join larger blocks of habitat and help reduce the adverse effects of habitat fragmentation. Habitat linkages provide a potential route for gene flow and long-term dispersal of plants and animals and may also serve as primary habitat for smaller animals, such as reptiles and amphibians. Habitat linkages may be continuous habitat or discrete habitat islands that function as stepping stones for dispersal.

The project site does not reside within any designated wildlife corridors or habitat linkages identified in the South Coast Missing Linkages analysis conducted by South Coast Wildlands (2008), the Eastern Santa Monica Mountains Habitat Linkage Planning Map (SMMC 2017a), or the Griffith Park Area Habitat Linkage Planning Map (SMMC 2017b). The closest designated habitat linkage, i.e., Santa Monica–Sierra Madre Connection within the South Coast Missing Linkages analysis, is located approximately 3 miles west of the project site within the Santa Susana Mountains. This linkage covers the Santa Monica, Simi, Santa Susana, and Sierra Madre ranges and serves to connect the Los Padres and Angeles National Forests.

The public access trail located within the southern portion of the project site, just north of the current De Soto Reservoir, has potential to facilitate east-west wildlife movement through the area for urban-adapted species (e.g., coyote, striped skunk, raccoon, and opossum), as well as provide live-in habitat for smaller mammals, reptiles, and birds in the area. However, this corridor is fragmented by urban development and well-traversed roads. Specifically, the project site is abutted by SR-118 to the north, Rinaldi Street to the east, and De Soto Avenue to the west. As such, this corridor is unlikely to support wildlife movement for larger mammals. In addition, areas north of

SR-118 provide higher quality habitat and are more likely to support wildlife movement through the area.

5 IMPACTS AND AVOIDANCE MEASURES

This section addresses the anticipated impacts (direct, indirect, and cumulative) to biological resources that would result from implementation of the proposed project. The significance determinations for proposed or potential impacts follow the thresholds provided in the California Environmental Quality Act Guidelines Section 15064(b) and Appendix G Environmental Checklist. The evaluation of the project's impacts using the thresholds of significance presented is organized by the resource potentially affected: special-status species, riparian and special-status (sensitive) vegetation communities, jurisdictional wetlands and waters, and wildlife movement. The analysis presented below focuses on the demolition of the existing De Soto Tanks Reservoir construction of the proposed De Soto Tanks and pump station, and installation of associated pipelines. The earthen material excavated would be hauled off site. Work areas would be accessed by Rinaldi Street from the east and De Soto Avenue from the west.

5.1 Impacts to Vegetation Communities

The project site does not support any sensitive vegetation communities. The only native CDFW-ranked vegetation community within the project site is California buckwheat scrub; however, California buckwheat scrub is not considered a sensitive vegetation community. Furthermore, project impact areas activities are proposed to occur within portions of the project site that are dominated by upland mustard semi-natural alliance, California annual grassland, disturbed habitat, and urban/developed land (Figure 4). All work is proposed to occur within the project site with minimal potential indirect effects (i.e., fugitive dust) due to implementation of dust control practices during construction (i.e., watering active work sites with exposed soils). As such, direct and indirect impacts to sensitive vegetation communities would not occur, and no avoidance or mitigation measures are recommended.

5.2 Special-Status Plant Species

No special-status plant species were detected within the study area. Based on the negative results of focused botanical surveys conducted in April and July 2018, no species were determined to have a moderate potential to occur or higher within the study area. Therefore, direct or indirect impacts to special-status plant species would be less than significant, and no avoidance or mitigation measures are recommended.

5.3 Special-Status Wildlife Species

No special-status wildlife species were detected within the study area. However, a woodrat (not identified to species) and woodrat middens were observed during the biological reconnaissance; thus, San Diego desert woodrat has a moderate potential to occur within the study area. Cooper's hawk also has a moderate potential to occur, particularly within trees located on the study area. The project footprint is limited to non-native grasslands, disturbed land, and upland mustards, and as such, direct permanent impacts are not anticipated to occur to habitat for these special-status wildlife species. The woodrat middens identified on site do not occur within the project footprint and are not anticipated to be impacted by proposed project activities. Therefore, the proposed project is not expected to result in a significant direct impact to these special-status wildlife.

Potential short- and long-term indirect impacts to special-status wildlife within the study area could include generation of fugitive dust, noise, and increased human activity. The project would implement Best Management Practices during construction to control dust (i.e., watering active work sites with exposed soils), which would further reduce potential indirect impacts due to fugitive dust, as well as noise control activities, including the installation of temporary sound barrier walls as appropriate, which would further reduce indirect impacts to these species. Therefore, potential indirect impacts to special-status wildlife would be considered less than significant.

5.4 Jurisdictional Wetlands and Waters

No jurisdictional waters or wetlands occur within the project site and surrounding study area. Thus, no impacts to jurisdictional waters or wetlands would occur as a result of project activities.

5.5 Nesting Birds

The trees and shrubs within the study area have the potential to support nesting birds. Additionally, the surrounding study area, outside of the Project site, has the potential to support nesting and foraging raptors. Direct and indirect impacts to migratory nesting birds must be avoided for compliance with the Migratory Bird Treaty Act (16 USC 703–712) and California Fish and Game Code Sections 3503.5, 3503, and 3513. Nesting birds could be affected by direct impacts due to vegetation removal and indirect impacts from short-term construction-related noise, resulting in decreased reproductive success or abandonment of an area as nesting habitat.

Significant impacts to nesting birds would be avoided through implementation of avoidance measures BIO-1 and BIO-2.

BIO-1 **Breeding Season Avoidance.** Ground-disturbing and vegetation trimming/ removal activities shall be conducted outside of the breeding season to the extent feasible (i.e., February 1 through August 31).

BIO-2 **Nesting Bird Survey.** If the breeding season cannot be avoided, a pre-construction nesting bird survey shall be conducted prior to ground disturbing and vegetation trimming/removal activities. All suitable nesting habitat shall be thoroughly surveyed by a qualified biologist for the presence of nesting birds within 72 hours prior to commencement of the proposed project activities. If an active nest is detected within the study area, LADWP's project manager will be notified and an appropriate avoidance buffer will be maintained around the nest, as determined by a qualified biologist. The nest will be flagged and avoided until the nesting birds have fledged and the nest is vacant (as determined by the qualified biologist). As a general guidance during the breeding season, LADWP should not conduct work within 300 feet from known protected passerine nests, and 500 feet from known raptor and special-status species nests, or as determined by a qualified biologist.

5.6 City of Los Angeles Protected Trees

One protected valley oak tree as defined in the City of Los Angeles Protected Tree Ordinance occurs on site. This tree is located outside of the project footprint and is not anticipated to be impacted by the proposed project activities. Thus, impacts to City-protected trees would be less than significant, and no avoidance or mitigation measures are recommended.

5.7 Regional Resource Planning Context

The proposed project is not within any designated open space within the City General Plan or Chatsworth–Porter Ranch Community Plan, significant ecological areas within the County General Plan, habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan; therefore, it would not be in conflict with any such local, regional, or state plans.

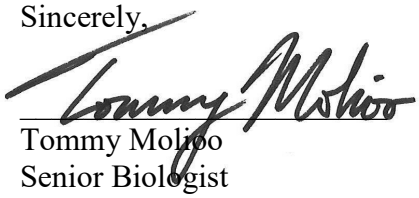
5.8 Wildlife Corridors and Habitat Linkages

No designated wildlife corridors or habitat linkages identified in the South Coast Missing Linkages analysis conducted by South Coast Wildlands (2008), the Eastern Santa Monica Mountains Habitat

Linkage Planning Map (SMMC 2017a), or the Griffith Park Area Habitat Linkage Planning Map (SMMC 2017b). The public access trail located within the southern portion of the project site has potential to facilitate east-west wildlife movement for urban-adapted species. No fencing or hardscape currently exists or is proposed to be constructed within this portion of the project site, and this area would continue to facilitate east-west wildlife movement. Thus, no significant direct permanent impacts would occur on wildlife movement as a result of project activities. Additionally, the proposed project activities would occur primarily during daytime hours as specified in the City of Los Angeles building code, limiting the potential noise and lighting impacts during the nighttime hours when most wildlife species likely to traverse the area would be active. Additionally, no temporary structures (e.g., construction fencing) that would impede wildlife movement are proposed. As such, project activities would not likely result in direct temporary impacts to wildlife movement. Some indirect temporary impacts to localized wildlife movement could occur due to construction-related noise. However, these impacts would not be expected to significantly disrupt wildlife movement due to the cessation of project activities during nighttime hours. Thus, impacts to wildlife corridors and habitat linkages would be less than significant and no additional avoidance or mitigation measures are recommended.

If you have any questions regarding the contents of this report, please do not hesitate to call me at 949.373.8321 or email at tmolioo@dudek.com.

Sincerely,



Tommy Molioo
Senior Biologist

Att.: Attachment A – Figures
1, Regional Map
2, Site Plan
3, Soils Map
4, Biological Resources Map
5, Special-Status Species Occurrences
Attachment B – Site Photographs
Attachment C – Plant Compendium
Attachment D – California Gnatcatcher Survey Report
Attachment E – Wildlife Compendium
Attachment F – Special-Status Plant Species Potential to Occur
Attachment G – Special-Status Wildlife Species Potential to Occur

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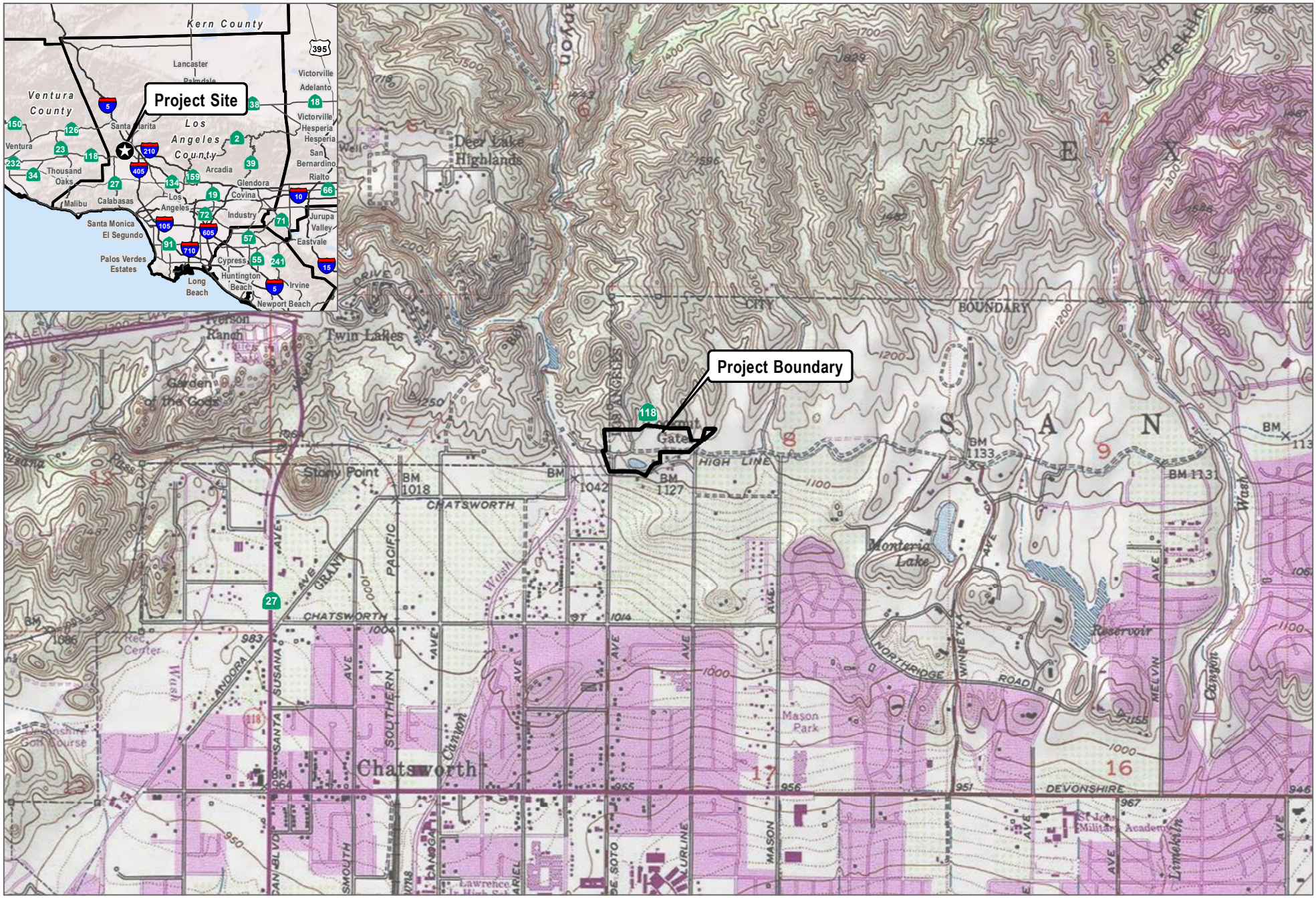
ATTACHMENT A

Figures



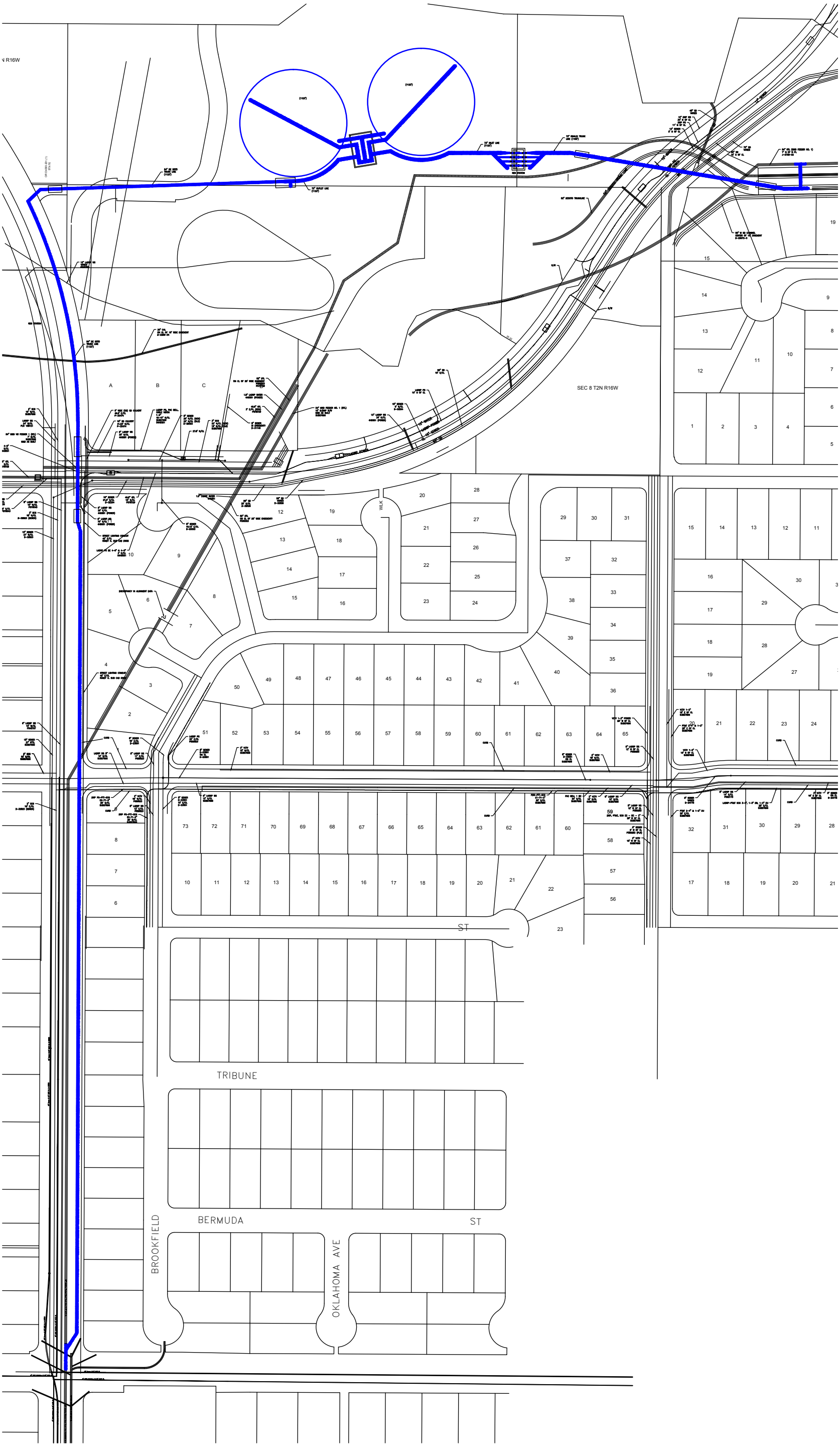
SOURCE: USGS 7.5-Minute Series Oat Mountain Quadrangle

LA DWP Los Angeles Department of Water & Power

FIGURE 1

Project Location

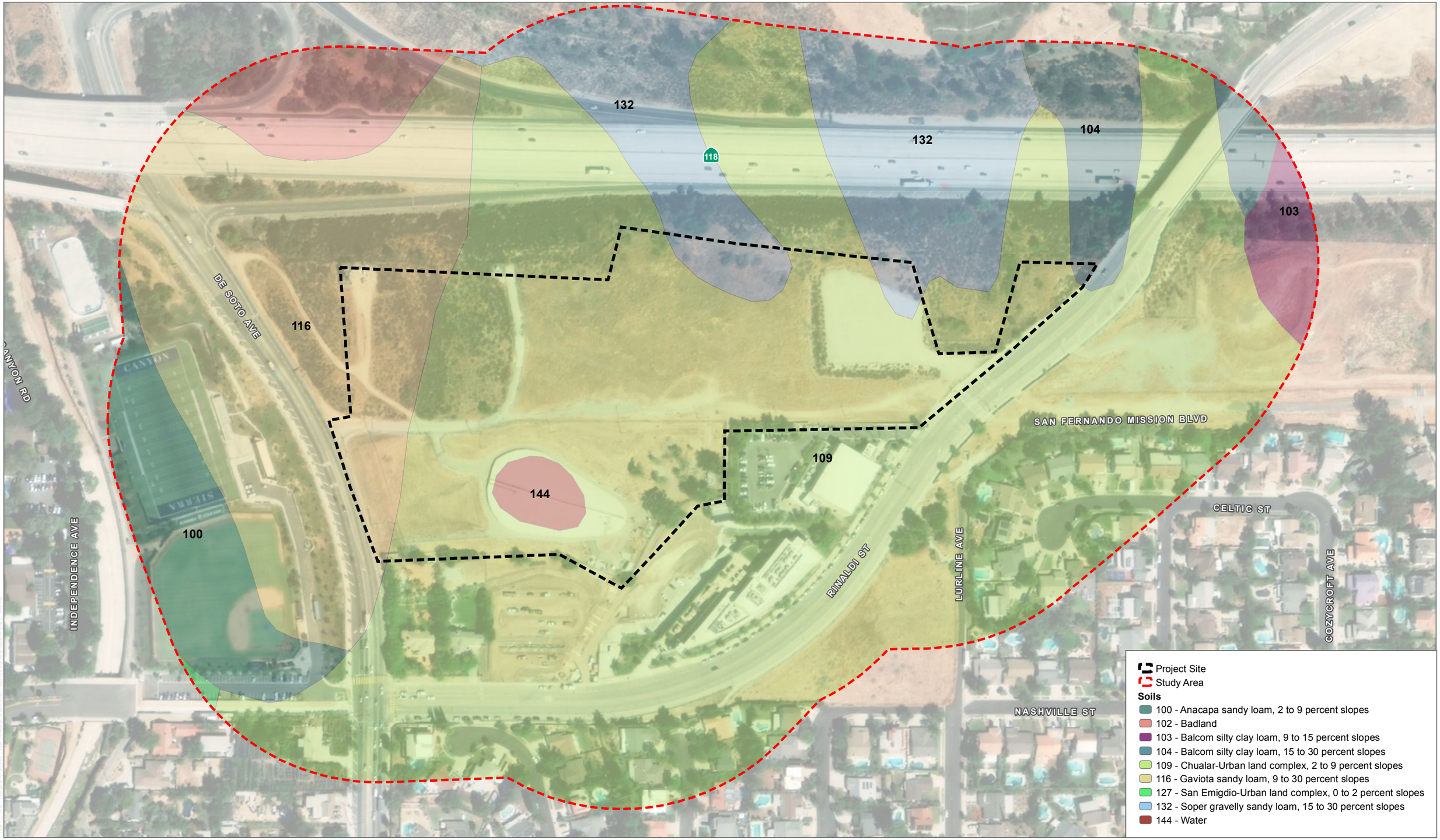
LADWP De Soto Tanks Project



SOURCE: LADWP

FIGURE 2
Site Plan
LADWP De Soto Tanks Project

DUDEK



SOURCE: DigitalGlobe 2016, USDA NRCS 2018

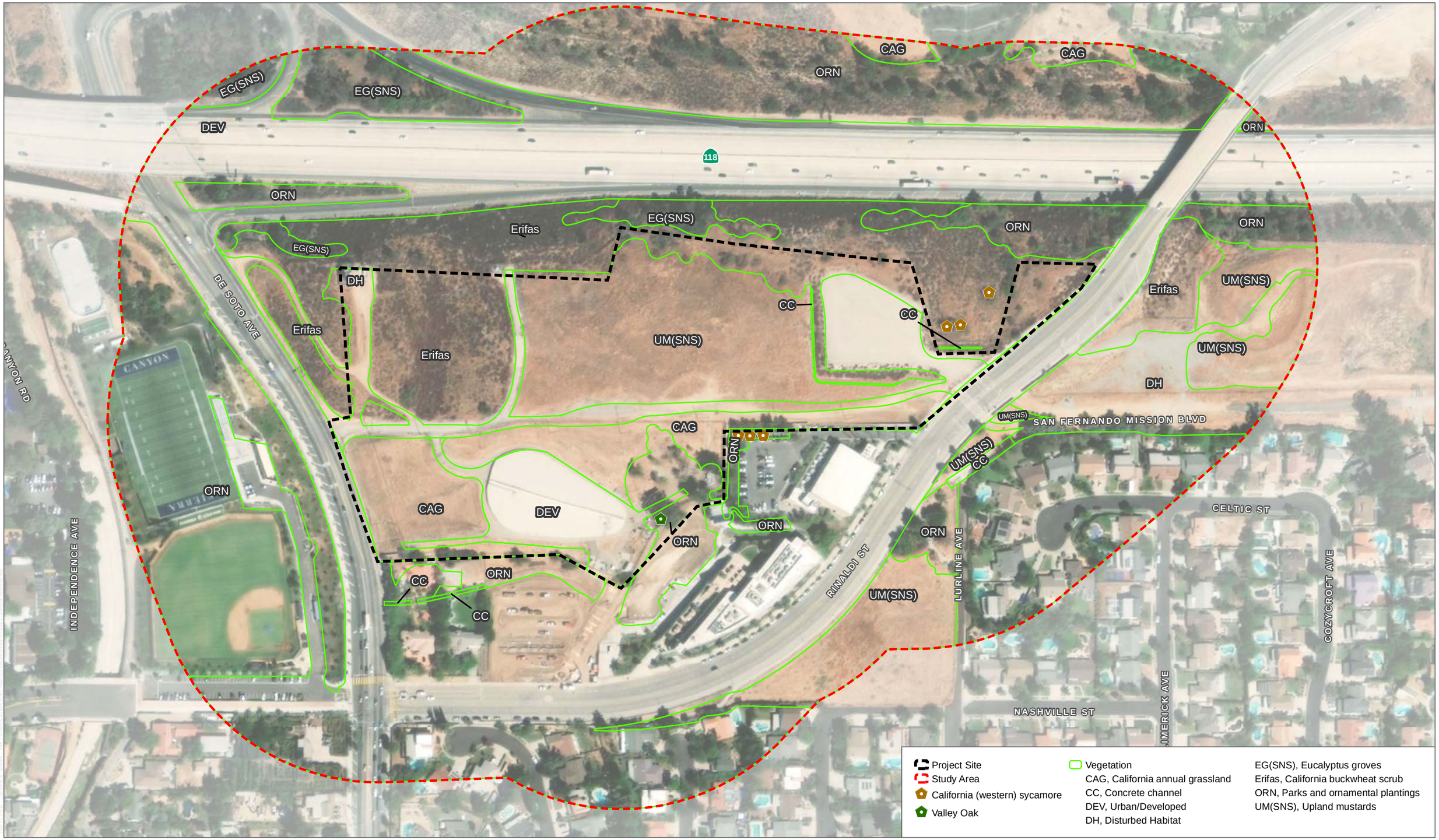
LA DWP Los Angeles Department of Water & Power

0 100 200 Feet

FIGURE 3

Soils

LADWP De Soto Tanks Project



SOURCE: DigitalGlobe 2016

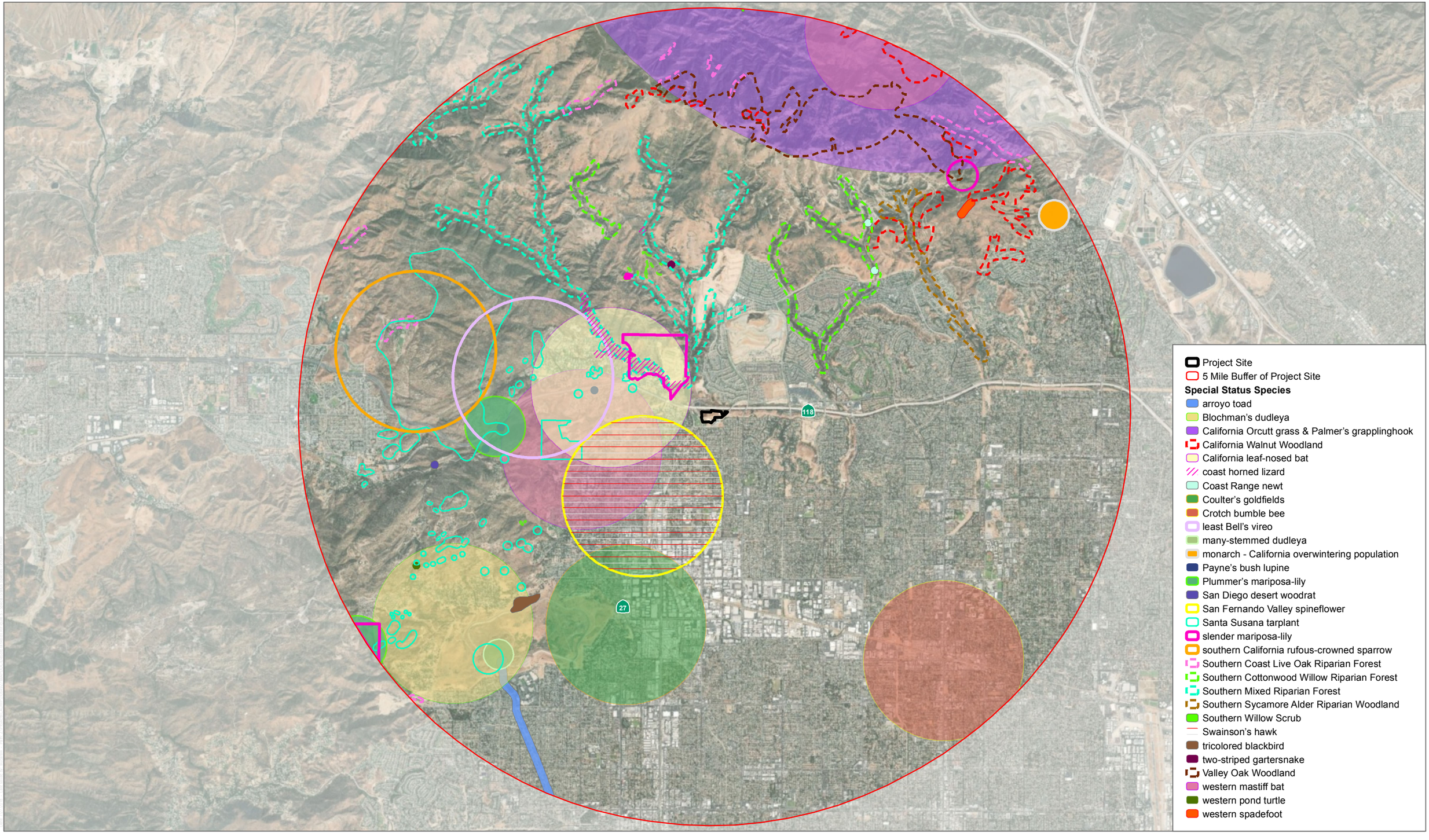
Los Angeles Department of Water & Power

0 100 200 Feet

FIGURE 4

Biological Resources

LADWP De Soto Tanks Project



SOURCE: DigitalGlobe 2016; CNDDB 2018

LA DWP Los Angeles Department of Water & Power

0 2,500 5,000 Feet

FIGURE 5

Special-Status Species Occurrences

LADWP De Soto Tanks Project

ATTACHMENT B

Site Photographs

ATTACHMENT B
Photo Documentation

Photo 1: Facing east from the center of the project site. Note non-native grassland dominates the site.	**Photo 2:** Facing northwest from the center of the project site.
Photo 3: Facing west from the eastern project boundary.	**Photo 4:** Facing east from the southern portion of the project site; note existing reservoir on the right.

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ATTACHMENT C

Plant Compendium

ATTACHMENT C
Plant Compendium

VASCULAR SPECIES

GYMNOSPERMS AND GNETOPHYTES

CUPRESSACEAE—CYPRESS FAMILY

* *Cupressus sempervirens*—Italian cypress

PINACEAE—PINE FAMILY

Pinus sp.—ornamental pine tree

MONOCOTS

AGAVACEAE—AGAVE FAMILY

Chlorogalum pomeridianum var. *pomeridianum*—wavyleaf soap plant

Hesperoyucca whipplei—chaparral yucca

ARECACEAE—PALM FAMILY

* *Phoenix canariensis*—Canary Island date palm

* *Phoenix dactylifera*—date palm

POACEAE—GRASS FAMILY

* *Avena barbata*—slender oat

* *Avena fatua*—wild oat

* *Bromus diandrus*—ripgut brome

* *Bromus hordeaceus*—soft brome

* *Bromus madritensis* ssp. *rubens*—red brome

Elymus glaucus—blue wild rye

* *Hordeum murinum*—mouse barley

* *Pennisetum setaceum*—fountain grass swards

* *Stipa miliacea* var. *miliacea*—smilograss

Stipa sp.—needlegrass species

THEMIDACEAE—BRODIAEA FAMILY

Dichelostemma capitatum—bluedicks

EUDICOTS

ADOXACEAE—MUSKROOT FAMILY

Sambucus nigra ssp. *caerulea*—blue elderberry

ANACARDIACEAE—SUMAC OR CASHEW FAMILY

Malosma laurina—laurel sumac
* *Schinus molle*—Peruvian peppertree
* *Schinus terebinthifolius*—Brazilian peppertree

APOCYNACEAE—DOGBANE FAMILY

Asclepias fascicularis—Mexican whorled milkweed
* *Nerium oleander*—oleander

ASTERACEAE—SUNFLOWER FAMILY

Artemisia californica—California sagebrush
Ambrosia acanthicarpa—flatspine bur ragweed
* *Carduus pycnocephalus*—Italian plumeless thistle
* *Centaurea melitensis*—Maltese star-thistle
Corethrogyne filaginifolia—common sandaster
Deinandra fasciculata—clustered tarweed
Ericameria linearifolia—narrowleaf goldenbush
Erigeron canadensis—Canadian horseweed
Helianthus annuus—common sunflower
Heterotheca grandiflora—telegraphweed
* *Lactuca serriola*—prickly lettuce
Malacothrix saxatilis var. *tenuifolia*—cliff desertdandelion
Stephanomeria exigua—small wirelettuce
* *Sonchus asper* ssp. *asper*—spiny sowthistle
* *Sonchus oleraceus*—common sowthistle
* *Taraxacum officinale*—common dandelion

BORAGINACEAE—BORAGE FAMILY

Amsinckia intermedia—common fiddleneck
Cryptantha intermedia—Clearwater cryptantha

BRASSICACEAE—MUSTARD FAMILY

* *Brassica nigra*—black mustard
* *Brassica tournefortii*—Asian mustard
* *Hirschfeldia incana*—shortpod mustard
* *Raphanus sativus*—cultivated radish
* *Sisymbrium irio*—London rocket

CHENOPODIACEAE—GOOSEFOOT FAMILY

* *Salsola tragus*—prickly Russian thistle

CONVOLVULACEAE—MORNING-GLORY FAMILY

Calystegia macrostegia ssp. *intermedia*—island false bindweed
Cuscuta californica var. *californica*—chaparral dodder

CUCURBITACEAE—GOURD FAMILY

Marah macrocarpa—Cucamonga manroot

EUPHORBIACEAE—SPURGE FAMILY

Croton setiger—dove weed
Euphorbia albomarginata—whitemargin sandmat
* *Ricinus communis*—castorbean

FABACEAE—LEGUME FAMILY

Acmispon americanus var. *americanus*—American bird's-foot trefoil
Acmispon glaber var. *glaber*—common deerweed
Lupinus bicolor—miniature lupine
Lupinus succulentus—hollowleaf annual lupine
* *Melilotus indicus*—annual yellow sweetclover

FAGACEAE—OAK FAMILY

Quercus lobata—valley oak
Quercus agrifolia—coast live oak

GERANIACEAE—GERANIUM FAMILY

* *Erodium botrys*—longbeak stork's bill
* *Erodium cicutarium*—redstem stork's bill

LAMIACEAE—MINT FAMILY

* *Marrubium vulgare*—horehound
Salvia leucophylla—purple sage
Salvia mellifera—black sage
Trichostema lanceolatum—vinegarweed

MALVACEAE—MALLOW FAMILY

* *Malva parviflora*—cheeseweed mallow

MYRTACEAE—MYRTLE FAMILY

* *Eucalyptus camaldulensis*—river redgum
* *Eucalyptus citriodora*—lemonscented gum
* *Eucalyptus globulus*—Tasmanian bluegum
* *Eucalyptus sideroxylon*—red ironbark

NYCTAGINACEAE—FOUR O'CLOCK FAMILY

Mirabilis laevis var. *crassifolia*—California four o'clock

OLEACEAE—OLIVE FAMILY

* *Olea europaea*—olive

* *Jasminum* sp.—jasmine

ONAGRACEAE—EVENING PRIMROSE FAMILY

Clarkia purpurea—winecup clarkia

OXALIDACEAE—OXALIS FAMILY

* *Oxalis pes-caprae*—Bermuda buttercup

PLATANACEAE—PLANE TREE, SYCAMORE FAMILY

Platanus racemosa—California sycamores

POLYGONACEAE—BUCKWHEAT FAMILY

Eriogonum elongatum—longstem buckwheat

Eriogonum fasciculatum var. *foliolosum*—Eastern Mojave buckwheat

RHAMNACEAE—BUCKTHORN FAMILY

Ceanothus crassifolius—hoary leaf ceanothus

ROSACEAE—ROSE FAMILY

Adenostoma fasciculatum—chamise

Heteromeles arbutifolia—toyon

Prunus ilicifolia ssp. *ilicifolia*—hollyleaf cherry

SOLANACEAE—NIGHTSHADE FAMILY

Datura wrightii—sacred thorn-apple

* *Nicotiana glauca*—tree tobacco

Solanum douglasii—greenspot nightshade

Solanum xanti—chaparral nightshade

TAMARICACEAE—TAMARISK FAMILY

* *Tamarix ramosissima*—saltcedar

* *Tamarix* sp.—tamarisk

ULMACEAE—ELM FAMILY

* *Ulmus parvifolia*—Chinese elm

* signifies introduced (non-native)

ATTACHMENT D

California Gnatcatcher Survey Report

DUDEK

27372 CALLE ARROYO
SAN JUAN CAPISTRANO, CALIFORNIA 92675
T 949.450.2525 F 949.450.2626

July 19, 2018 10649-27

U.S. Fish and Wildlife Service
Attn: Recovery Permit Coordinator
Ventura Fish and Wildlife Office
2493 Portola Road, Suite B
Ventura, California 93003

Subject: 2018 Focused California Gnatcatcher Survey Report for the LADWP De Soto Tanks Project, City of Los Angeles, Los Angeles County, California

Dear Recovery Permit Coordinator:

This report documents the results of protocol-level presence/absence surveys for the coastal California gnatcatcher (*Polioptila californica californica*; CAGN). Focused surveys were conducted throughout all areas of suitable habitat (i.e., California buckwheat scrub) for the proposed Los Angeles Department of Water and Power (LADWP) De Soto Tanks project site located in the Chatsworth community of the city of Los Angeles, California (Figure 1). Suitable habitat for CAGN is approximately 10.9 acres of California buckwheat scrub within the study area (project site plus a 500-foot buffer). Dudek biologists Paul Lemons (TE051248-6) and Melissa Blundell (TE 97717A) conducted CAGN surveys from April through June 2018.

The CAGN is a federally listed threatened species and a California Department of Fish and Wildlife (CDFW) Species of Special Concern. It is closely associated with coastal sage scrub habitat and typically occurs below 950 feet elevation and on slopes less than 40% (Atwood 1990), but CAGN have been observed at elevations greater than 2,000 feet. The species is threatened primarily by loss, degradation, and fragmentation of coastal sage scrub habitat, and is also impacted by brown-headed cowbird (*Molothrus ater*) nest parasitism (Braden et al. 1997).

LOCATION AND EXISTING CONDITIONS

The approximately 17-acre De Soto Tanks project site (project site) is located in predominantly undeveloped area of the Chatsworth neighborhood within the city of Los Angeles, Los Angeles County, California (Figure 1). More specifically, the study area is physically located immediately south of State Route (SR) 118, and is bounded by De Soto Avenue to the west, and Rinaldi Street to the east and south (Figure 1).

The approximate centroid of the project site is at longitude -118.586185° West and latitude 34.272113° North within Section 8, Township 2 North, Range 16 West on the U.S. Geological Survey 7.5-minute Oat Mountain Quadrangle map.

Elevations on site are approximately 1,100 feet to 1,190 feet above mean sea level. Soils mapped within the survey area mainly include Chaualar-Urban land complex (2 to 9% slopes), Gaviota sandy loam (9 to 30% slopes), and Soper gravelly sandy loam (15 to 30% slopes). Smaller inclusions of the following soil types are also mapped in the survey area, Anacapa sandy loam (2 to 9% slopes), badland, and Balcom silty clay loam (9 to 30% slopes). The existing underground water tank is mapped as water (USDA NRCS 2006).

VEGETATION COMMUNITIES

Eleven vegetation communities and land covers were identified within the study area, which are shown in Figure 2 and tabulated in Table 1. Suitable CAGN habitat within the study area includes California buckwheat scrub, which is described in detail below.

Table 1
Vegetation Communities and Land Covers within the Study Area

Vegetation Community or Land Cover	Map Code	Project Site (acres)	Buffer (acres)	Total Study Area (acres)
Grasslands and Herbaceous Cover				
Annual brome grassland	ABG	3.46	0.53	3.99
Upland mustards (semi-natural stands)[c]	UM (SNS)	4.87	3.77	8.64
Subtotal Grasslands and Herbaceous Cover		*8.33*	*4.3*	*12.63*
Woodland Alliances and Stands				
Eucalyptus groves (semi-natural stands)	EG (SNS)	-	1.59	1.59
Parks and ornamental plantings	ORN	0.72	18.17	18.89
Subtotal Woodland Alliances and Stands [a]		*0.72*	*19.76*	*20.48*
Upland Shrubland Alliances and Stands				
California buckwheat scrub (*Eriogonum fasciculatum* shrubland alliance)	CBS	4.28	6.57	10.85
Subtotal Upland Shrubland Alliances and Stands [b]		*4.28*	*6.7*	*10.85*
Non-Natural Land Covers/Unvegetated Communities				
Disturbed habitat	DH	2.54	2.64	5.18
Concrete channel	CC	0.03	0.82	0.85
Urban/developed[a]	DEV	1.92	35.83	37.75
Subtotal Non-Natural Land Covers/Unvegetated Communities [a]		*4.49*	*39.29*	*43.78*
Total[a]		**17.82**	**70.05**	**87.74**

[a] Totals may not sum due to rounding.

[b] The term semi-natural stands vs. alliance is used in the *Manual of California Vegetation* to distinguish between natural vegetation communities and vegetation types dominated by non-native plants (Sawyer et al. 2009).

California buckwheat scrub (*Eriogonum fasciculatum* shrubland alliance)

California buckwheat scrub is a native plant community dominated by California buckwheat (*Eriogonum fasciculatum*) in the shrub canopy. Cover is typically continuous or intermittent with height less than 2 meters (7 feet). California buckwheat scrub occurs along the northern portion of the study area, immediately south of SR-118. This area also contains a sub-dominance of California sagebrush (*Artemisia californica*) and brittlebush (*Encelia farinosa*), with a mix of castorbean (*Ricinus communis*), cheeseweed mallow (*Malva parviflorum*), and shortpod mustard (*Hirschfeldia incana*) also present. This vegetation community is relatively moderate in size, comprising 4.28 acres of the project site and 6.7 acres of the surrounding 500-foot buffer (10.85 acres for the total study area). This habitat type is relatively dense, contiguous, and provides suitable habitat to support a pair of nesting or foraging CAGN.

METHODS

The presence/absence focused survey for CAGN was conducted for the project between April 25 and June 19, 2018. The survey was conducted in accordance with the schedule provided in Table 2. The specific areas surveyed and the survey route are depicted on Figure 2. Designated Critical Habitat for this species is located approximately 0.2 miles northwest of the project site north of SR-118.

Table 2
Survey Dates and Conditions

Date	Personnel	Temperature	Wind	Sky	Time
4/25/18	Paul Lemons	66°F–73°F	0–3 mph	10%–5% cc	0930–1140
5/2/18	Melissa Blundell	56°F–59°F	0–2 mph	100% cc	0725–0940
5/9/18	Paul Lemons	73°F–79°F	1–5 mph	0% cc	1025–1200
5/23/18	Paul Lemons	60°F–63°F	1–4 mph	100% cc	1005–1150
6/4/18	Paul Lemons	73°F–78°F	1–4 mph	0% cc	0930–1145
6/19/18	Melissa Blundell	62°F–64°F	0–1 mph	5% cc	0720–0848

* Survey Conditions: °F = degrees Fahrenheit; cc = cloud cover; mph = miles per hour

The survey was conducted following the currently accepted protocol of the U.S. Fish and Wildlife Service (USFWS), *Coastal California Gnatcatcher* (*Polioptila californica californica*) *Presence/Absence Survey Protocol* (USFWS 1997). The survey included six visits at a minimum of 7-day intervals. In accordance with the protocol, no more than 80-acres of suitable habitat were surveyed by a single biologist during each site visit. Survey

routes are shown in Figure 2, and allowed for complete audible and visual coverage of all suitable CAGN habitat on site.

A 200-scale topographic map (1 inch = 200 feet) overlain with vegetation polygons and the study area was utilized during the survey. Additionally, digital mobile maps were used during the surveys to assist in navigating each survey area. Weather conditions, time of day, and season were appropriate for the detection of gnatcatchers and are provided in Table 2. Appropriate binoculars (e.g., 10x50 magnification) were used to aid in detecting and identifying bird species. A recording of gnatcatcher vocalizations was played approximately every 200 feet to induce responses from potentially present gnatcatchers. Vocalization-playback would have been terminated immediately upon detection of any gnatcatchers to minimize the potential for harassment.

RESULTS

There were no CAGN observed or detected within the study area during any of the six focused surveys. A full list of bird species observed during the surveys and detected within proximity of the study area is provided in Attachment B. No CAGN or CAGN nests were detected. Additionally, no predatory species for CAGN were observed during the surveys.

I certify that the information in this survey report and attached exhibits fully and accurately represent my work.

Sincerely,

Tommy Molioo
Permit # TE-06873C-0.1

Paul Lemons
Permit # TE051248-6

Melissa Blundell
Permit # TE 97717A

Att: A, Figure 1, Project Location Map
Figure 2, CAGN Survey Route
B, Compendium of Wildlife Species Observed or Detected

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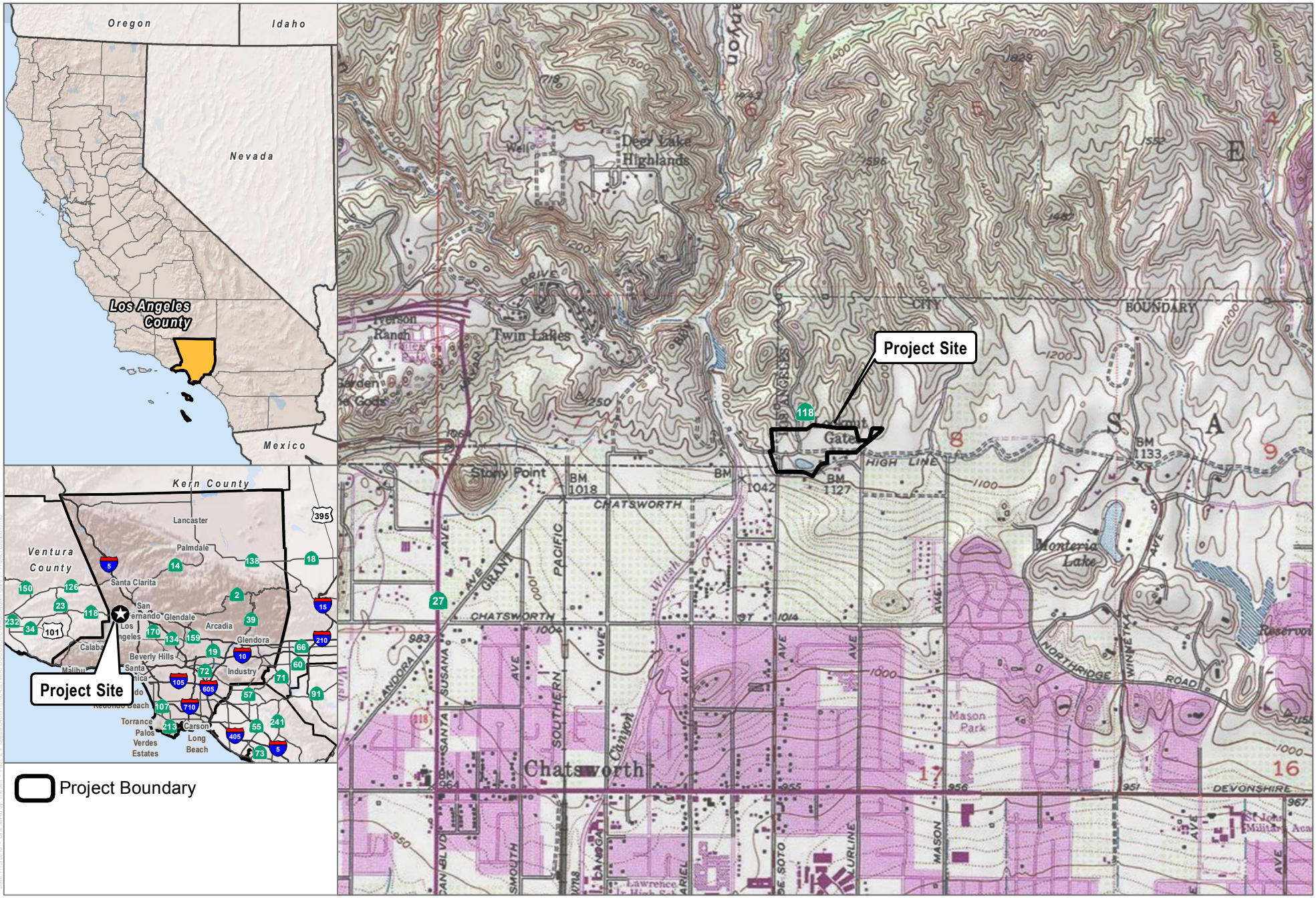
ATTACHMENT A

Figures



SOURCE: USGS 7.5-Minute Series Oat Mountain Quadrangle

DUDEK

FIGURE 1

Project Location

Coastal California Gnatcatcher Survey Report

SOURCE: Bing Maps 2018

LA DWP Los Angeles Department of Water & Power

0 100 200 Feet

FIGURE 2

California Gnatcatcher Survey Routes

Coastal California Gnatcatcher Survey Report

ATTACHMENT B

Compendium of Wildlife Species Observed or Detected

ATTACHMENT B
Compendium of Wildlife Species Observed or Detected

BIRDS

BUSHTITS

AEGITHALIDAE—LONG-TAILED TITS AND BUSHTITS

Psaltriparus minimus—bushtit

FINCHES

FRINGILLIDAE—FRINGILLINE AND CARDUELINE FINCHES AND ALLIES

Haemorhous mexicanus—house finch
Spinus psaltria—lesser goldfinch
Spinus tristis—American goldfinch

FLYCATCHERS

TYRANNIDAE—TYRANT FLYCATCHERS

Tyrannus verticalis—western kingbird
Tyrannus vociferans—Cassin's kingbird

HAWKS

ACCIPITRIDAE—HAWKS, KITES, EAGLES, AND ALLIES

Buteo jamaicensis—red-tailed hawk

HUMMINGBIRDS

TROCHILIDAE—HUMMINGBIRDS

Calypte anna—Anna's hummingbird

JAYS, MAGPIES AND CROWS

CORVIDAE—CROWS AND JAYS

Aphelocoma californica—California scrub-jay
Corvus brachyrhynchos—American crow
Corvus corax—common raven

MOCKINGBIRDS AND THRASHERS

MIMIDAE—MOCKINGBIRDS AND THRASHERS

Mimus polyglottos—northern mockingbird

PIGEONS AND DOVES

COLUMBIDAE—PIGEONS AND DOVES

Zenaida macroura—mourning dove

SHOREBIRDS

CHARADRIIDAE—LAPWINGS AND PLOVERS

Charadrius vociferus—killdeer

SILKY FLYCATCHERS

PTILOGONATIDAE—SILKY-FLYCATCHERS

Phainopepla nitens—phainopepla

SWALLOWS

HIRUNDINIDAE—SWALLOWS

Stelgidopteryx serripennis—northern rough-winged swallow

WRENS

TROGLODYTIDAE—WRENS

Thryomanes bewickii—Bewick's wren
Troglodytes aedon—house wren

NEW WORLD SPARROWS

PASSERELLIDAE—NEW WORLD SPARROWS

Chondestes grammacus—lark sparrow
Melozone crissalis—California towhee

MAMMALS

HARES AND RABBITS

LEPORIDAE—HARES AND RABBITS

Sylvilagus audubonii—desert cottontail
Sylvilagus bachmani—brush rabbit

SQUIRRELS

SCIURIDAE—SQUIRRELS

Spermophilus (Otospermophilus) beecheyi—California ground squirrel

REPTILES

LIZARDS

PHRYNOSOMATIDAE—IGUANID LIZARDS

Sceloporus occidentalis—western fence lizard

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ATTACHMENT E

Wildlife Compendium

ATTACHMENT E
Wildlife Compendium

BIRD

BLACKBIRDS, ORIOLES, AND ALLIES

ICTERIDAE—BLACKBIRDS

Icterus bullockii—Bullock's oriole
Icterus sp.—oriole species

BUSHTITS

AEGITHALIDAE—LONG-TAILED TITS AND BUSHTITS

Psaltriparus minimus—bushtit

CARDINALS, GROSBEAKS, AND ALLIES

CARDINALIDAE—CARDINALS AND ALLIES

Passerina caerulea—blue grosbeak

EMBERIZINES

EMBERIZIDAE—EMBERIZIDS

Chondestes grammacus—lark sparrow
Melospiza melodia—song sparrow
Melozone crissalis—California towhee
Passerculus sandwichensis—savannah sparrow
Pipilo maculatus—spotted towhee
Zonotrichia leucophrys—white-crowned sparrow

FINCHES

FRINGILLIDAE—FRINGILLINE AND CARDUELINE FINCHES AND ALLIES

Haemorhous mexicanus—house finch
Spinus lawrencei—Lawrence's goldfinch
Spinus psaltria—lesser goldfinch
Spinus tristis—American goldfinch

FLYCATCHERS

TYRANNIDAE—TYRANT FLYCATCHERS

Empidonax difficilis—Pacific-slope flycatcher
Sayornis nigricans—black phoebe
Sayornis saya—Say's phoebe
Tyrannus verticalis—western kingbird
Tyrannus vociferans—Cassin's kingbird

HAWKS

ACCIPITRIDAE—HAWKS, KITES, EAGLES, AND ALLIES

Buteo lineatus—red-shouldered hawk

HUMMINGBIRDS

TROCHILIDAE—HUMMINGBIRDS

Calypte anna—Anna's hummingbird
Selasphorus sasin—Allen's hummingbird

JAYS, MAGPIES AND CROWS

CORVIDAE—CROWS AND JAYS

Aphelocoma californica—California scrub-jay
Corvus brachyrhynchos—American crow
Corvus corax—common raven

MOCKINGBIRDS AND THRASHERS

MIMIDAE—MOCKINGBIRDS AND THRASHERS

Mimus polyglottos—northern mockingbird
Toxostoma redivivum—California thrasher

NEW WORLD QUAIL

ODONTOPHORIDAE—NEW WORLD QUAIL

Callipepla californica—California quail

NEW WORLD VULTURES

CATHARTIDAE—NEW WORLD VULTURES AND CONDORS

Cathartes aura—turkey vulture

OLD WORLD SPARROWS

PASSERIDAE—OLD WORLD SPARROWS

* *Passer domesticus*—house sparrow

OLD WORLD WARBLERS AND GNATCATCHERS

SYLVIIDAE—SYLVIID WARBLERS

Polioptila caerulea—blue-gray gnatcatcher

PIGEONS AND DOVES

COLUMBIDAE—PIGEONS AND DOVES

* *Columba livia*—rock pigeon (rock dove)

* *Streptopelia decaocto*—Eurasian collared-dove

Zenaida macroura—mourning dove

SHOREBIRDS

CHARADRIIDAE—LAPWINGS AND PLOVERS

Charadrius vociferus—killdeer

SILKY FLYCATCHERS

PTILOGONATIDAE—SILKY-FLYCATCHERS

Phainopepla nitens—phainopepla

SWALLOWS

HIRUNDINIDAE—SWALLOWS

Hirundo rustica—barn swallow

Stelgidopteryx serripennis—northern rough-winged swallow

SWIFTS

APODIDAE—SWIFTS

Aeronautes saxatalis—white-throated swift

TERNS AND GULLS

LARIDAE—GULLS, TERNS, AND SKIMMERS

Larus sp.—gull species

TITMICE

PARIDAE—CHICKADEES AND TITMICE

Baeolophus inornatus—oak titmouse

WRENS

TROGLODYTIDAE—WRENS

Thryomanes bewickii—Bewick's wren

Troglodytes aedon—house wren

WRENTITS

TIMALIIDAE—BABBLERS

Chamaea fasciata—wrentit

INVERTEBRATE

BUTTERFLIES

PIERIDAE—WHITES AND SULFURS

Pieris rapae—cabbage white

MAMMALS

CANIDS

CANIDAE—WOLVES AND FOXES

Canis latrans—coyote

HARES AND RABBITS

LEPORIDAE—HARES AND RABBITS

Sylvilagus audubonii—desert cottontail

Sylvilagus bachmani—brush rabbit

POCKET GOPHERS

GEOMYIDAE—POCKET GOPHERS

Thomomys bottae—Botta's pocket gopher

RACCOONS

PROCYONIDAE—RACCOONS AND RELATIVES

Procyon lotor—raccoon

SQUIRRELS

SCIURIDAE—SQUIRRELS

Spermophilus (*Otospermophilus*) *beecheyi*—California ground squirrel

RATS, MICE, AND VOLES

CRICETIDAE—RATS, MICE, AND VOLES

Neotoma sp.—woodrat species

REPTILE

LIZARDS

PHRYNOSOMATIDAE—IGUANID LIZARDS

Sceloporus occidentalis—western fence lizard

Uta stansburiana—common side-blotched lizard

* signifies non-native species

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ATTACHMENT F

Special-Status Plant Species Potential to Occur

ATTACHMENT F
Special-Status Plant Species Potential to Occur

Scientific Name	Common Name	Status[1] (Federal/State/CRPR/ City of LA[2])	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur[3]
Acanthoscyphus parishii var. *parishii*	Parish's oxytheca	None/None/4.2/None	Chaparral, lower montane coniferous forest; sandy or gravelly/annual herb/June–Sep/4,003–8,530	Not expected to occur. The project site is outside of the species' known elevation range and lacks suitable habitat for this species (i.e., chaparral, coniferous forest).
Arenaria paludicola	marsh sandwort	FE/CE/1B.1/None	Marshes and swamps (freshwater or brackish); sandy, openings/perennial stoloniferous herb/May–Aug/10–558	Not expected to occur. The project site is outside of the species' known elevation range and lacks suitable marshes and swamps habitat for this species.
Astragalus brauntonii	Braunton's Milk-vetch	FE/None/1B.1/S[a]	Chaparral, Coastal scrub, Valley and foothill grassland; recent burns or disturbed areas, usually sandstone with carbonate layers/perennial herb/Jan–Aug/10–2,100	Low potential to occur. There is limited non-native grassland habitat on site. In addition, the closest documented occurrence is over 5 miles southeast of the project site (CDFW 2018). Furthermore, this species was not observed during focused botanical surveys conducted in April and July 2018, within its blooming period.
Berberis nevinii	Nevin's barberry	FE/SE/1B.1/S[a]	Chaparral, Cismontane woodland, Coastal scrub, Riparian scrub; sandy or gravelly/perennial evergreen shrub/(Feb)Mar–June/225–2,705	Low potential to occur. There is limited coastal scrub habitat on site. In addition, the closest documented occurrence is over 9 miles east of the project site, dates back to 1941, and is considered extirpated (CDFW 2018). Furthermore, this is a conspicuous species that would have been observed, if present, during multiple surveys conducted in 2017 and 2018.
Calochortus catalinae	Catalina mariposa lily	None/None/4.2/S[a]	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland/perennial bulbiferous herb/(Feb)Mar–June/45–2,295	Low potential to occur. There is limited non-native grassland and coastal scrub habitat on site. In addition, the closest documented occurrence is over 4 miles southwest of the project site in Canoga Park and dates back to 1966 (CCH 2018). Furthermore, this species was not observed during the surveys conducted in June 2017 and April 2018, within its blooming period.
Calochortus clavatus var. *clavatus*	club-haired mariposa lily	None/None/4.3/S[b]	Chaparral, cismontane woodland, coastal scrub, valley and foothill grassland; usually serpentinite, clay, rocky/perennial bulbiferous herb/May–June/246–4,265	Low potential to occur. There is limited non-native grassland and coastal scrub habitat on site. The site also lacks clay or rocky serpentinite soils typically preferred by this species, and the closest documented occurrence is over 5 miles north of the project site (CCH 2018). Furthermore, this species was not observed during the survey conducted in June 2017, within its blooming period.

Scientific Name	Common Name	Status[1] (Federal/State/CRPR/ City of LA[2])	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur[3]
Calochortus clavatus var. *gracilis*	slender mariposa lily	None/None/1B.2/None	Chaparral, Coastal scrub, Valley and foothill grassland/perennial bulbiferous herb/Mar–June(Nov)/1,045–3,280	Low potential to occur. There is limited non-native grassland and coastal scrub habitat on site. In addition, the closest documented occurrence is approximately 2 miles north of the project site in the Santa Susana mountains, where a population was transplanted (CDFW 2018). The project site is separated from the Santa Susana Mountains by a major freeway, SR-118. Furthermore, this species was not observed during surveys conducted in June 2017 and April 2018, within its blooming period.
Calochortus fimbriatus	late-flowered mariposa lily	None/None/1B.3/None	Chaparral, Cismontane woodland, Riparian woodland; often serpentinite/perennial bulbiferous herb/June–Aug/900–6,250	Not expected to occur. The project site lacks suitable habitat (i.e., chaparral, cismontane woodland, riparian woodland) for this species. The site also lacks serpentinite soils typically preferred by this species.
Calochortus palmeri var. *palmeri*	Palmer's mariposa lily	None/None/1B.2/None	Chaparral, lower montane coniferous forest, meadows and seeps; mesic/perennial bulbiferous herb/Apr–July/2,329–7,841	Not expected to occur. The project site is outside of the species' known elevation range and lacks suitable habitat for this species (i.e., chaparral, coniferous forest, meadows and seeps). In addition, the site lacks mesic conditions typically preferred by this species.
Calochortus plummerae	Plummer's mariposa lily	None/None/4.2/S[b]	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland; granitic, rocky/perennial bulbiferous herb/May–July/325–5,575	Low potential to occur. There is limited non-native grassland and coastal scrub habitat on site. The site also lacks granitic, rocky soils typically preferred by this species. The closest documented occurrence is located approximately 1.8 miles north of the project site (CDFW 2018); however, this species was not observed during surveys conducted in June 2017 and July 2018, within its blooming period.
Calystegia peirsonii	Peirson's morning-glory	None/None/4.2/S[b]	Chaparral, Chenopod scrub, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland/perennial rhizomatous herb/Apr–June/95–4,920	Low potential to occur. There is limited non-native grassland and coastal scrub habitat on site and the closest documented occurrence is located over 5 miles north in the Santa Susana mountains (CDFW 2018). Additionally, this species was not observed during surveys conducted in June 2017 and April 2018, within its blooming period.
Canbya candida	white pygmy-poppy	None/None/4.2/None	Joshua tree woodland, Mojavean desert scrub, Pinyon and juniper woodland; gravelly, sandy, granitic/annual herb/Mar–June/1,965–4,790	Not expected to occur. The project site is outside of the species' known elevation range and lacks suitable habitat (i.e., Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodland) for this species.

Scientific Name	Common Name	Status[1] (Federal/State/CRPR/ City of LA[2])	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur[3]
Castilleja gleasoni	Mt. Gleason paintbrush	None/CR/1B.2/None	Chaparral, lower montane coniferous forest, pinyon and juniper woodland; granitic/perennial herb (hemiparasitic)/May–June (Sep)/3,806–7,119	Not expected to occur. The project site is outside of the species' known elevation range and lacks suitable habitat (i.e., chaparral, coniferous forest, pinyon and juniper woodland) for this species. The site also lacks granitic soils typically preferred by this species.
Centromadia parryi ssp. *australis*	southern tarplant	None/None/1B.1/S[a]	Marshes and swamps (margins), Valley and foothill grassland (vernally mesic), Vernal pools/annual herb/May–Nov/0–1,575	Not expected to occur. The project site lacks vernally mesic habitat suitable for this species. Additionally, the closest documented occurrence for this species is over 5 miles southeast of the project site (CDFW 2018).
Cercocarpus betuloides var. *blancheae*	island mountain-mahogany	None/None/4.3/S[b]	Closed-cone coniferous forest, Chaparral/perennial evergreen shrub/Feb–May/95–1,970	Not expected to occur. The project site lacks suitable habitat for this species (i.e., closed-cone coniferous forest, chaparral).
Chorizanthe parryi var. f*ernandina*	San Fernando Valley spineflower	FC/SE/1B.1/S[b]	Coastal scrub (sandy), Valley and foothill grassland/annual herb/Apr–July/490–4,005	Low potential to occur. There is limited non-native grassland and coastal scrub habitat on site. Although the closest documented occurrence is approximately 0.2-mile southwest of the project site, this collection dates back to 1901 where much development has occurred since and is considered extirpated (CDFW 2018). The closest extant population is located over 8 miles southwest of the project site in Ahmanson Ranch (CDFW 2018). Furthermore, this species was not observed during focused botanical surveys conducted in April and July 2018, within its blooming period.
Clinopodium mimuloides	monkey-flower savory	None/None/4.2/None	Chaparral, north coast coniferous forest; streambanks, mesic/perennial herb/June–Oct/1,001–5,906	Not expected to occur. The project site lacks suitable habitat (i.e., chaparral, coniferous forest, streambanks) for this species. The site also lacks mesic conditions suitable for this species.
Convolvulus simulans	small-flowered morning-glory	None/None/4.2/S[b]	Chaparral (openings), Coastal scrub, Valley and foothill grassland; clay, serpentinite seeps/annual herb/Mar–July/95–2,430	Not expected to occur. The project site lacks clay or serpentine seeps suitable for this species. Furthermore, this species was not observed during focused botanical surveys conducted in April and July 2018, within its blooming period.
Deinandra minthornii	Santa Susana tarplant	None/SR/1B.2/S[b]	Chaparral, Coastal scrub; rocky/perennial deciduous shrub/July–Nov/915–2,495	Low potential to occur. There is limited coastal scrub habitat on site. Although the closest documented occurrence is approximately 0.8-mile northwest of the project site (CDFW 2018), the coastal scrub on site lacks rocky soils suitable for this species. Furthermore, this species was not observed during the focused botanical survey conducted in July 2018, within its blooming period.

Scientific Name	Common Name	Status[1] (Federal/State/CRPR/ City of LA[2])	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur[3]
Deinandra paniculata	paniculate tarplant	None/None/4.2/None	Coastal scrub, valley and foothill grassland, vernal pools; usually vernally mesic, sometimes sandy/annual herb/Apr–Nov/82–3,084	Low potential to occur. There is limited non-native grassland and coastal scrub habitat on site. The site also lacks vernally mesic conditions typically preferred by this species. In addition, the closest documented occurrence is over 10 miles north of the project site (CCH 2018). Furthermore, this species was not observed during focused botanical surveys conducted in April and July 2018, within its blooming period.
Delphinium parryi ssp. *purpureum*	Mt. Pinos larkspur	None/None/4.3/None	Chaparral, Mojavean desert scrub, pinyon and juniper woodland/perennial herb/May–June/3,281–8,530	Not expected to occur. The project site is outside of the species' known elevation range and lacks suitable habitat for this species (i.e., chaparral, Mojavean desert scrub, pinyon and juniper woodland).
Dodecahema leptoceras	slender-horned spineflower	FE/SE/1B.1/S[b]	Chaparral, Cismontane woodland, Coastal scrub (alluvial fan); sandy/annual herb/Apr–June/655–2,495	Low potential to occur. There is limited coastal scrub habitat on site. In addition, the closest documented occurrence for this species is over 5 miles northeast of the project site and dates back to 1893 (CDFW 2018). Furthermore, this species was not observed during the focused botanical survey conducted in April 2018, within its blooming period.
Dudleya blochmaniae ssp. *blochmaniae*	Blochman's dudleya	None/None/1B.1/S[b]	Coastal bluff scrub, Chaparral, Coastal scrub, Valley and foothill grassland; rocky, often clay or serpentinite/perennial herb/Apr–June/15–1,475	Low potential to occur. There is limited non-native grassland and coastal scrub habitat on site. The site also lacks rocky, clay, or serpentinite soils typically preferred by this species. The closest documented occurrence is approximately 3 miles southwest of the project site (CDFW 2018). Furthermore, this species was not observed during surveys conducted in June 2017 and April 2018, within its blooming period.
Dudleya cymosa ssp. *agourensis*	Agoura Hills dudleya	FT/None/1B.2/None	Chaparral, Cismontane woodland; rocky, volcanic/perennial herb/May–June/655–1,640	Not expected to occur. The limited coastal scrub habitat on site lacks rocky, volcanic soils required for this species. In addition, the closest documented occurrence is over 12 miles southwest of the project site (CDFW 2018). Furthermore, this species was not observed during the survey conducted in June 2017, within its blooming period.
Dudleya multicaulis	many-stemmed dudleya	None/None/1B.2/S[a]	Chaparral, Coastal scrub, Valley and foothill grassland; often clay/perennial herb/Apr–July/45–2,590	Low potential to occur. There is limited non-native grassland and coastal scrub habitat on site. The site also lacks clay soils typically preferred by this species. Furthermore, this species was not observed during focused botanical surveys conducted in April and July 2018, within its blooming period.

Scientific Name	Common Name	Status[1] (Federal/State/CRPR/ City of LA[2])	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur[3]
Harpagonella palmeri	Palmer's grappling hook	None/None/4.2/None	Chaparral, Coastal scrub, Valley and foothill grassland; Clay; open grassy areas within shrubland/annual herb/Mar–May/65–3,135	Low potential to occur. There is limited non-native grassland and coastal scrub habitat on site. The site also lacks clay soils typically preferred by this species, and the closest documented occurrence is over 10 miles from the project (CDFW 2018). Furthermore, this species was not observed during the focused botanical survey conducted in April 2018, within its blooming period.
Helianthus inexpectatus	Newhall sunflower	None/None/1B.1/None	Marshes and swamps, riparian woodland; freshwater, seeps/perennial rhizomatous herb/Aug–Oct/1,001–1,001	Not expected to occur. The project site lacks suitable habitat for this species (i.e., marshes and swamps, riparian woodland, freshwater seeps).
Hordeum intercedens	vernal barley	None/None/3.2/None	Coastal dunes, Coastal scrub, Valley and foothill grassland (saline flats and depressions), Vernal pools/annual herb/Mar–June/15–3,280	Low potential to occur. There is limited non-native grassland and coastal scrub habitat on site. The site lacks vernally mesic conditions typically preferred by this species, and the closest documented occurrence is over 10 miles from the project site (CCH 2018). Additionally, this species was not observed during surveys conducted in June 2017 and April 2018, within its blooming period.
Horkelia cuneata var. *puberula*	mesa horkelia	None/None/1B.1/None	Chaparral (maritime), Cismontane woodland, Coastal scrub; sandy or gravelly/perennial herb/Feb–July(Sep)/225–2,655	Low potential to occur. Although there is limited coastal scrub habitat on site, the closest documented occurrence for this species is over 5 miles southwest of the project site (CDFW 2018). Furthermore, this species was not observed during focused botanical surveys conducted in April and July 2018, within its blooming period.
Hulsea vestita ssp. *parryi*	Parry's sunflower	None/None/4.3/None	Lower montane coniferous forest, pinyon and juniper woodland, upper montane coniferous forest; granitic or carbonate, rocky, openings/perennial herb/Apr–Aug/4,495–9,498	Not expected to occur. The project site is outside of the species' known elevation range and lacks suitable habitat for this species (i.e., coniferous forest, pinyon and juniper woodland, rocky outcrops).
Juglans californica	Southern California black walnut	None/None/4.2/S[a]	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland; alluvial/perennial deciduous tree/Mar–Aug/160–2,955	Not expected to occur. There is limited coastal scrub habitat on site. In addition, this is a conspicuous species that would have been observed, if present, during multiple surveys conducted in 2017 and 2018.
Lasthenia glabrata ssp. *coulteri*	Coulter's goldfields	None/None/1B.1/S[b]	Marshes and swamps (coastal salt), Playas, Vernal pools/annual herb/Feb–June/0–4,005	Not expected to occur. The site lacks suitable habitat (i.e., marshes and swamps, playas, or vernal pools) for this species.

Scientific Name	Common Name	Status[1] (Federal/State/CRPR/ City of LA[2])	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur[3]
Lepidium virginicum var. *robinsonii*	Robinson's pepper-grass	None/None/4.3/None	Chaparral, coastal scrub/annual herb/Jan–July/3–2,904	Low potential to occur. There is limited coastal scrub habitat on site, and the closest documented occurrence is over 10 miles northeast of the project site (CDFW 2018). Furthermore, this species was not observed during focused botanical surveys conducted in April and July 2018, within its blooming period.
Lilium humboldtii ssp. *ocellatum*	ocellated Humboldt lily	None/None/4.2/S[a]	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Riparian woodland; openings/perennial bulbiferous herb/Mar–July(Aug)/95–5,905	Low potential to occur. There is limited coastal scrub habitat on site. Additionally, the closest documented occurrence for this species is over 5 miles southwest of the project site, and dates back to 1916 (CCH 2018). Furthermore, this species was not observed during focused botanical surveys conducted in April and July 2018, within its blooming period.
Lupinus paynei	Payne's bush lupine	None/None/1B.1/None	Coastal scrub, Riparian scrub, Valley and foothill grassland; Sandy/perennial shrub/Mar–Apr(May–July)/720–1,380	Low potential to occur. There is limited coastal scrub habitat on site. The closest documented occurrence is over 1 mile west of the project site (CDFW 2018). This species was not observed during the focused botanical survey conducted in July 2018, within its blooming period.
Malacothamnus davidsonii	Davidson's bush-mallow	None/None/1B.2/S[b]	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland/perennial deciduous shrub/June–Jan/605–3,740	Low potential to occur. There is limited coastal scrub habitat on site. Additionally, the closest documented occurrence is over 5 miles northeast of the project site (CDFW 2018). Furthermore, this species was not observed during surveys conducted in June 2017 and July 2018, within its blooming period.
Monardella hypoleuca ssp. *hypoleuca*	white-veined monardella	None/None/1B.3/None	Chaparral, Cismontane woodland/perennial herb/(Apr)May–Aug(Sep–Dec)/160–5,005	Not expected to occur. The project site lacks suitable habitat for this species (i.e., chaparral, cismontane woodland).
Nasturtium gambelii	Gambel's water cress	FE/CT/1B.1/None	Marshes and swamps (freshwater or brackish)/perennial rhizomatous herb/Apr–Oct/16–1,083	Not expected to occur. The project site is outside of the species' known elevation range and lacks suitable marshes and swamps habitat for this species.
Navarretia fossalis	Spreading navarretia	FT/None/1B.1/None	Chenopod scrub, Marshes and swamps (assorted shallow freshwater), Playas, Vernal pools/annual herb/Apr–June/95–2,150	Not expected to occur. The site lacks suitable habitat for this species (i.e., chenopod scrub, marshes and swamps, playas, vernal pools).
Navarretia ojaiensis	Ojai navarretia	None/None/1B.1/None	Chaparral (openings), Coastal scrub (openings), Valley and foothill grassland/annual herb/May–July/900–2,035	Low potential to occur. There is limited coastal scrub habitat on site, and the closest documented occurrence is over 5 miles west of the project site (CDFW 2018). Additionally, this species was not observed during the survey conducted in June 2017, within its blooming period.

Scientific Name	Common Name	Status[1] (Federal/State/CRPR/ City of LA[2])	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur[3]
Navarretia setiloba	Piute Mountains navarretia	None/None/1B.1/None	Cismontane woodland, pinyon and juniper woodland, valley and foothill grassland; clay or gravelly loam/annual herb/Apr–July/935–6890	Low potential to occur. The grassland habitat on site is limited, frequently mowed, and highly disturbed with non-native species. In addition, the closest documented occurrence is over 10 miles northeast of the project site (CDFW 2018). Furthermore, this species was not observed during focused botanical surveys conducted in April and July 2018, within its blooming period.
Nolina cismontana	chaparral nolina	None/None/1B.2/None	Chaparral, Coastal scrub; sandstone or gabbro/perennial evergreen shrub/(Mar)May–July/455–4185	Low potential to occur. There is limited coastal scrub habitat on site, and the closest documented occurrence is over 5 miles southwest of the project site (CDFW 2018). Additionally, this species was not observed during surveys conducted in June 2017 and July 2018, within its blooming period.
Opuntia basilaris var. *brachyclada*	short-joint beavertail	None/None/1B.2/None	Chaparral, Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodland/perennial stem succulent/Apr–June (Aug)/1,394–5,906	Not expected to occur. The project site is outside of the species' known elevation range and lacks suitable habitat for this species (i.e., chaparral, Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodland).
Orcuttia californica	California Orcutt grass	FE/SE/1B.1/S[b]	Vernal pools/annual herb/Apr–Aug/45–2,165	Not expected to occur. The project site lacks suitable vernal pool habitat for this species.
Phacelia hubbyi	Hubby's phacelia	None/None/4.2/None	Chaparral, Coastal scrub, Valley and foothill grassland; gravelly, rocky, talus/annual herb/Apr–July/0–3,280	Not expected to occur. The limited non-native grassland and coastal scrub habitat on site lacks rocky or talus substrate for this species. Additionally, this species was not observed during focused botanical surveys conducted in April and July 2018, within its blooming period.
Phacelia mohavensis	Mojave phacelia	None/None/4.3/S[b]	Cismontane woodland, lower montane coniferous forest, meadows and seeps, pinyon and juniper woodland; sandy or gravelly/annual herb/Apr–Aug/4,593–8,202	Not expected to occur. The project site is outside of the species' known elevation range and lacks suitable habitat for this species (i.e., cismontane woodlands, coniferous forest, meadows and seeps, pinyon and juniper woodland).
Pseudognaphalium leucocephalum	white rabbit-tobacco	None/None/2B.2/None	Chaparral, cismontane woodland, coastal scrub, riparian woodland; sandy, gravelly/perennial herb/(July) Aug–Nov (Dec)/0–6,890	Low potential to occur. There is limited coastal scrub habitat on site and the closest documented occurrence is over 10 miles from the project site (CDFW 2018).

Scientific Name	Common Name	Status[1] (Federal/State/CRPR/ City of LA[2])	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur[3]
Senecio aphanactis	chaparral ragwort	None/None/2B.2/None	Chaparral, cismontane woodland, coastal scrub; sometimes alkaline/annual herb/Jan–Apr/49–2,625	Low potential to occur. There is limited coastal scrub habitat on site. The closest documented occurrence is over 8 miles from the project site (CDFW 2018). Additionally, this species was not observed during the focused botanical survey conducted in April 2018, within its blooming period.
Stylocline masonii	Mason's neststraw	None/None/1B.1/None	Chenopod scrub, pinyon and juniper woodland; sandy/annual herb/Mar–May/328–3,,937	Not expected to occur. The project site lacks suitable habitat for this species (i.e., chenopod scrub, pinyon and juniper woodland).
Symphyotrichum defoliatum	San Bernardino aster	None/None/1B.2/None	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Meadows and seeps, Marshes and swamps, Valley and foothill grassland (vernally mesic); near ditches, streams, springs/perennial rhizomatous herb/July–Nov/5–6695	Not expected to occur. The project site lacks vernally mesic habitat suitable for this species and was not observed during the focused botanical survey conducted in July 2018, within its blooming period.

Notes:

1 Status abbreviations:
- FE: Federally listed as endangered
- FT: Federally listed as threatened
- FC: Federal Candidate for listing
- CE: State listed as endangered
- CR: State Rare
- CRPR List 1A: Plants Presumed Extirpated in California and Either Rare or Extinct Elsewhere
- CRPR List 1B: Plants Rare, Threatened, or Endangered in California and Elsewhere
- CRPR List 2A: Plants Presumed Extirpated in California, But More Common Elsewhere
- CRPR List 2B: Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere
- CRPR List 3: Plants About Which More Information is Needed - A Review List
- CRPR List 4: Plants of Limited Distribution - A Watch List
  - .1 Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
  - .2 Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)
  - .3 Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

2 Sensitive Species within the City of Los Angeles (City of Los Angeles 2006)
- a: Known to occur in San Fernando Valley/West Hills Corridor Zone 2
- b: Occurrence is known in other zones or is unknown

3 Vicinity refers to records within the Oat Mountain, Val Verde, Newhall, Mint Canyon, Santa Susana, San Fernando, Calabasas, Canoga Park, Van Nuys USGS 7.5-minute quadrangles.

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ATTACHMENT G

Special-Status Wildlife Species Potential to Occur

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Special-Status Wildlife Species Potential to Occur

Scientific Name	Common Name	Status[1] (Federal/ State/ City of LA[2])	Habitat	Potential to Occur[3]
			Amphibians	
Anaxyrus californicus	arroyo toad	FE/SSC/S[a]	Semi-arid areas near washes, sandy riverbanks, riparian areas, palm oasis, Joshua tree, mixed chaparral and sagebrush; stream channels for breeding (typically third order); adjacent stream terraces and uplands for foraging and wintering	Not expected to occur. The project site lacks nearby washes or stream channels suitable for this species.
Rana draytonii	California red-legged frog	FT/SSC/S[a]	Lowland streams, wetlands, riparian woodlands, livestock ponds; dense, shrubby or emergent vegetation associated with deep, still or slow-moving water; uses adjacent uplands	Not expected to occur. The project site lacks suitable aquatic habitat for this species.
Rana muscosa	mountain yellow-legged frog	FE/SE, WL/S[a]	Lakes, ponds, meadow streams, isolated pools, and open riverbanks; rocky canyons in narrow canyons and in chaparral	Not expected to occur. The project site lacks suitable aquatic habitat for this species.
Spea hammondii	western spadefoot	None/SSC/S[b]	Primarily grassland and vernal pools, but also in ephemeral wetlands that persist at least 3 weeks in chaparral, coastal scrub, valley–foothill woodlands, pastures, and other agriculture	Not expected to occur. The project site lacks ephemeral wetlands suitable for this species.
Taricha torosa (Monterey Co. south only)	California newt	None/SSC/None	Wet forests, oak forests, chaparral, and rolling grassland	Not expected to occur. The project site lacks suitable mesic or wet habitat for this species.
			Reptiles	
Actinemys marmorata	western pond turtle	None/SSC/S[a]	Slow-moving permanent or intermittent streams, ponds, small lakes, and reservoirs with emergent basking sites; adjacent uplands used for nesting and during winter	Not expected to occur. The project site lacks suitable aquatic habitat for this species.
Anniella sp.	California legless lizard	None/SSC/None	Coastal dunes, stabilized dunes, beaches, dry washes, valley–foothill, chaparral, and desert scrubs; pine, oak, and riparian woodlands; associated with sparse vegetation and sandy or loose, loamy soils	Low potential to occur. The minimal non-native grassland habitat on site is limited, routinely mowed, and too compacted to provide suitable habitat for this species. Additionally, the closest documented occurrence for this species over 5 miles southwest of the project site (CDFW 2018).

Scientific Name	Common Name	Status[1] (Federal/ State/ City of LA[2])	Habitat	Potential to Occur[3]
Arizona elegans occidentalis	California glossy snake	None/SSC	Commonly occurs in desert regions throughout southern California. Prefers open sandy areas with scattered brush. Also found in rocky areas.	Low potential to occur. The grassland and coastal scrub habitat on site has compacted soils, is routinely disturbed, and isolated by well-traversed roads and highways, providing minimal habitat to support this species. The closest CNDDB occurrence is approximately 9.5 miles north of the project site (CDFW 2018)
Aspidoscelis tigris stejnegeri	San Diegan tiger whiptail	None/SSC/None	Hot and dry areas with sparse foliage, including chaparral, woodland, and riparian areas.	Not expected to occur. The project site lacks suitable habitat (i.e., chaparral, woodland, riparian) for this species.
Phrynosoma blainvillii	Blainville's horned lizard	None/SSC/S[a]	Open areas of sandy soil in valleys, foothills, and semi-arid mountains including coastal scrub, chaparral, valley–foothill hardwood, conifer, riparian, pine–cypress, juniper, and annual grassland habitats	Low potential to occur. The closest CNDDB occurrence is approximately 0.3-mile northwest of the project site (CDFW 2018); however, the grassland and coastal scrub habitat on site has compacted soils, is routinely disturbed, and isolated by well-traversed roads and highways, providing minimal habitat to support this species.
Thamnophis hammondii	two-striped gartersnake	None/SSC/S[a]	Streams, creeks, pools, streams with rocky beds, ponds, lakes, vernal pools	Not expected to occur. The project site lacks suitable aquatic or vernal pool habitat for this species.
Birds				
Accipiter cooperii (nesting)	Cooper's hawk	None/WL/S[a]	Nests and forages in dense stands of live oak, riparian woodlands, or other woodland habitats often near water	Moderate potential to nest. The project site lacks woodland habitats; however, this species is increasingly tolerant of urban environments and may nest in trees within the project site and surrounding study area.
Agelaius tricolor (nesting colony)	tricolored blackbird	None/SSC/None	Nests near freshwater, emergent wetland with cattails or tules, but also in Himalayan blackberrry; forages in grasslands, woodland, and agriculture	Not expected to occur. The project site lacks suitable emergent wetland habitat for this species. Patches of grassland on site are too small and routinely disturbed to support a nesting colony of this species.
Aimophila ruficeps canescens	Southern California rufous-crowned sparrow	None/WL/S[a]	Nests and forages in open coastal scrub and chaparral with low cover of scattered scrub interspersed with rocky and grassy patches	Low nesting and foraging potential. Minimal coastal scrub habitat occurs on site; however, this habitat is limited and isolated by well-traversed roads and highways. Although the closest documented occurrence is approximately 2.6 miles northwest of the project site in Simi Valley (CDFW 2018), this species was not detected during focused coastal California gnatcatcher surveys conducted from April to June of 2018.

Scientific Name	Common Name	Status[1] (Federal/ State/ City of LA[2])	Habitat	Potential to Occur[3]
Ammodramus savannarum (nesting)	grasshopper sparrow	None/SSC/None	Nests and forages in moderately open grassland with tall forbs or scattered shrubs used for perches	Not expected to nest. Grassland on site is too small, routinely disturbed, and isolated by well-traversed roads and highways to provide suitable nesting habitat for this species. There are no CNDDB occurrences of this species within 5 miles of the project site (CDFW 2018).
Aquila chrysaetos (nesting & wintering)	golden eagle	None/FP, WL/ None	Nests and winters in hilly, open/semi-open areas, including shrublands, grasslands, pastures, riparian areas, mountainous canyon land, open desert rimrock terrain; nests in large trees and on cliffs in open areas and forages in open habitats	Not expected to occur. The project site lacks suitable nesting habitat (i.e., large trees and cliffs) for this species. In addition, the project site and surrounding area is too disturbed and developed to provide suitable wintering habitat; however, this species may occasionally pass overhead during migration.
Artemisiospiza belli belli	Bell's sage sparrow	None/WL/S[a]	Nests and forages in coastal scrub and dry chaparral; typically in large, unfragmented patches dominated by chamise; nests in more dense patches but uses more open habitat in winter	Low potential to occur. Minimal coastal scrub habitat occurs on site; however, this habitat is limited and isolated by well-traversed roads and highways. There are no CNDDB occurrences within 10 miles of the project site (CDFW 2018).
Athene cunicularia (burrow sites & some wintering sites)	burrowing owl	None/SSC/S[a]	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows	Not expected to occur. There is minimal grassland habitat on site suitable for this species. Additionally, this species or evidence of this species were not detected within the project site and 500-ft buffer during protocol-level breeding season surveys conducted for this species from April to July 2018.
Buteo swainsoni (nesting)	Swainson's hawk	None/ST/None	Nests in open woodland and savanna, riparian, and in isolated large trees; forages in nearby grasslands and agricultural areas such as wheat and alfalfa fields and pasture	Not expected to nest, may occasionally pass overhead during migration. Although the closest CNDDB occurrence is adjacent to the project site, the species was last observed in 1898 and the breeding population is considered to be extirpated from the site (CDFW 2018). The species' current nesting range in Los Angeles is limited to the Antelope Valley over 30 miles northeast.
Coccyzus americanus occidentalis (nesting)	western yellow-billed cuckoo	FT, BCC/SE/S[a]	Nests in dense, wide riparian woodlands and forest with well-developed understories	Not expected to occur. The project site lacks riparian habitat suitable for this species. The species is considered extirpated from Los Angeles County. The closest CNDDB occurrence is over 7 miles northeast of the project site, dates back to 1894, and is now considered extirpated (CDFW 2018).

Scientific Name	Common Name	Status[1] (Federal/ State/ City of LA[2])	Habitat	Potential to Occur[3]
Elanus leucurus (nesting)	white-tailed kite	None/FP/S[a]	Nests in woodland, riparian, and individual trees near open lands; forages opportunistically in grassland, meadows, scrubs, agriculture, emergent wetland, savanna, and disturbed lands	Low potential to nest. The project site is too small and isolated by urban development to provide suitable nesting and foraging habitat for this species. In addition, there are no CDDDB occurrences within 10 miles of the project site (CDFW 2018).
Empidonax traillii extimus	southwestern willow flycatcher	FT/SE/S[b]	Nests in dense riparian habitats along streams, reservoirs, or wetlands; uses variety of riparian and shrubland habitats during migration	Not expected to occur. The project site lacks riparian or wetland habitat suitable for this species. The closest USFWS occurrence is approximately 11.5 miles east of the project site (USFWS 2018).
Eremophila alpestris actia	California horned lark	None/WL/S[a]	Nests and forages in grasslands, disturbed lands, agriculture, and beaches; nests in alpine fell fields of the Sierra Nevada	Low potential to nest. The grassland on site is too small, routinely disturbed, and isolated by urban development to provide suitable nesting and foraging habitat for this species. Additionally, this species was not observed during focused coastal California gnatcatcher surveys conducted from April to June of 2018. Furthermore, there are no CNDDB occurrences within 10 miles of the project site (CDFW 2018).
Gymnogyps californianus	California condor	FE/SE, FP/None	Nests in rock formations, deep caves, and occasionally in cavities in giant sequoia trees (Sequoiadendron giganteus); forages in relatively open habitats where large animal carcasses can be detected	Not expected to occur. The project site lacks suitable nesting habitat (i.e., rock formations, deep caves, giant sequoia trees) for this species. This species' current range is approximately 9.2 miles north of the project site (USFWS 2018).
Icteria virens (nesting)	yellow-breasted chat	None/SSC/S[a]	Nests and forages in dense, relatively wide riparian woodlands and thickets of willows, vine tangles, and dense brush	Not expected to occur. The project site lacks suitable nesting habitat (i.e., riparian woodlands, thickets, or dense brush) for this species. Additionally, there are no CNDDB occurrences within 10 miles of the project site (CDFW 2018).
Lanius ludovicianus (nesting)	loggerhead shrike	None/SSC/S[a]	Nests and forages in open habitats with scattered shrubs, trees, or other perches	Low potential to nest. Although the project site contains open habitats with scattered shrubs and trees, the site is too isolated by urban development to provide suitable nesting and foraging habitat for this species. This species is considered a rare inhabitant of urbanized areas (CDFW 2018). In addition, this species was not observed during multiple avian surveys conducted within the project site from April to June 2018, and there are no CNDDB occurrences within 10 miles of the project site (CDFW 2018).

Scientific Name	Common Name	Status[1] (Federal/ State/ City of LA[2])	Habitat	Potential to Occur[3]
Polioptila californica californica	coastal California gnatcatcher	FT/SSC/S[b]	Nests and forages in various sage scrub communities, often dominated by California sagebrush and buckwheat; generally avoids nesting in areas with a slope of greater than 40%; majority of nesting at less than 1,000 feet above mean sea level	Not expected to occur. Suitable coastal scrub habitat occurs on site; however, this species was not detected during protocol-level presence/absence surveys conducted for this species from April to June 2018.
Riparia riparia (nesting)	bank swallow	None/ST/S[a]	Nests in riparian, lacustrian, and coastal areas with vertical banks, bluffs, and cliffs with sandy soils; open country and water during migration	Not expected to nest. No suitable vertical bank, bluff, and cliff habitat for this species. Additionally, the closest CNDDB occurrence is 7.9 miles west of the project site and dates back to 1897 (CDFW 2018).
Setophaga petechia (nesting)	yellow warbler	None/SSC/S[a]	Nests and forages in riparian and oak woodlands, montane chaparral, open ponderosa pine, and mixed-conifer habitats	Not expected to nest. No suitable nesting habitat (i.e., riparian and oak woodlands, montane chaparral, conifer forests) for this species.
Vireo bellii pusillus (nesting)	least Bell's vireo	FT/SE/S[a]	Nests and forages in low, dense riparian thickets along water or along dry parts of intermittent streams; forages in riparian and adjacent shrubland late in nesting season	Not expected to nest. No suitable riparian habitat present on site.
Mammals				
Antrozous pallidus	pallid bat	None/SSC/S[a]	Grasslands, shrublands, woodlands, forests; most common in open, dry habitats with rocky outcrops for roosting, but also roosts in man-made structures and trees	Low potential to roost and forage. The project site is surrounded by urban development and well-traversed roads and highways. This species is highly intolerant of urban development (Miner and Stokes 2005), therefore unlikely to use grassland and shrublands on site as roosting or foraging habitat. In addition, the closest CNDDB occurrence is over 8 miles of the project site and dates back to 1951 (CDFW 2018).
Corynorhinus townsendii	Townsend's big-eared bat	None/PST, SSC/S[a]	Mesic habitats characterized by coniferous and deciduous forests and riparian habitat, but also xeric areas; roosts in limestone caves and lava tubes, man-made structures, and tunnels	Not expected to occur. The project site lacks mesic habitats typically preferred by this species. In addition, this species is extremely sensitive to disturbance of roosting sites (CDFW 2018). Since the project site is surrounded by urban development, the species is not expected to roost or forage nearby. Furthermore, the closest CNDDB occurrence is over 11 miles northeast from the project site and dates back to 1940 (CDFW 2018).

Scientific Name	Common Name	Status[1] (Federal/ State/ City of LA[2])	Habitat	Potential to Occur[3]
Euderma maculatum	spotted bat	None/SSC/None	Foothills, mountains, desert regions of southern California, including arid deserts, grasslands, and mixed-conifer forests; roosts in rock crevices and cliffs; feeds over water and along washes	Not expected to roost, low potential to forage. The project site lacks rocky outcrops, crevices, and cliffs suitable for roosting. The project site lacks open water sources typically preferred by this species. Additionally, the closest CNDDB occurrence is over 10 miles southwest from the project site (CDFW 2018).
Eumops perotis californicus	western mastiff bat	None/SSC/S[a]	Chaparral, coastal and desert scrub, coniferous and deciduous forest and woodland; roosts in crevices in rocky canyons and cliffs where the canyon or cliff is vertical or nearly vertical, trees, and tunnels	Not expected to roost, may occasionally forage. The project site lacks rocky outcrops, crevices, and cliffs suitable for roosting. This species may occasionally forage within isolated patches of ornamental vegetation and scrub habitat within the project site and surrounding study area. Although the closest CNDDB occurrence is 0.5 miles west of the project site, this collection dates back to 1954. The most recent CNDDB occurrence is 7.6 miles northeast of the project site in Elsmere Canyon (CDFW 2018).
Lepus californicus bennettii	San Diego black-tailed jackrabbit	None/SSC/S[a]	Arid habitats with open ground; grasslands, coastal scrub, agriculture, disturbed areas, and rangelands	Not expected to occur. Minimal open upland mustards, grasslands, coastal scrub habitats occur on site; however, the project site is too isolated by urban development and well-traversed roads and highways for this species. There are no CNDDB occurrences within 10 miles of the project site (CDFW 2018).
Macrotus californicus	Californian leaf-nosed bat	None/SSC/S[b]	Riparian woodlands, desert wash, desert scrub; roosts in mines and caves, occasionally buildings	Not expected to occur. The project site lacks suitable vegetation (i.e., riparian woodlands, desert wash, desert scrub) and suitable roosting sites (i.e., mines, caves, buildings). Although the closest CNDDB occurrence is 880 feet from the project site, this collection dates back to 1950 and is considered extirpated from the site (CDFW 2018).
Neotoma lepida intermedia	San Diego desert woodrat	None/SSC/S[a]	Coastal scrub, desert scrub, chaparral, cacti, rocky areas	Moderate potential to occur. The project site contains coastal scrub habitat that could support this species. Woodrat middens were identified within the 500-foot buffer during the reconnaissance-level survey conducted in June 2017. Additionally, an unidentified woodrat individual (*Neotoma* sp.) was observed during the botanical survey conducted in July 2018. Neither observations of woodrat and middens were confirmed to species-level; therefore, there is a moderate potential that this species occurs on site. The closest CNDDB occurrence is 2.4 miles west of the project site (CDFW 2018).

Scientific Name	Common Name	Status[1] (Federal/ State/ City of LA[2])	Habitat	Potential to Occur[3]
Onychomys torridus ramona	southern grasshopper mouse	None/SSC/S[b]	Grassland and sparse coastal scrub	Not expected to occur. The grassland and coastal scrub habitat on site is too isolated by urban development for this species. Additionally, there are no recent records of this species within the Los Angeles Basin. The closest documented occurrence is over 10 miles east of the project site and dates back to 1904 (CDFW 2018).
Perognathus longimembris brevinasus	Los Angeles pocket mouse	None/SSC/S[b]	Lower-elevation grassland, alluvial sage scrub, and coastal scrub	Not expected to occur. The grassland and coastal scrub habitat on site is too limited, isolated, and compacted for this species. Additionally, the San Fernando Valley is not included within the current range for this species. The closest CNDDB occurrence is over 10 miles southeast of the project site and dates back to 1903 (CDFW 2018).
Taxidea taxus	American badger	None/SSC/None	Dry, open, treeless areas; grasslands, coastal scrub, agriculture, and pastures, especially with friable soils	Not expected to occur. The project site is isolated by urban development and well-traversed roads and highways. Minimal patches of coastal scrub and grassland occurs on site; however, this habitat is relatively isolated from larger expanses of habitat typically occupied by this species. Additionally, suitable burrows for this species were not detected during surveys conducted in 2017 and 2018. The closest CNDDB occurrence is approximately 9.4 miles north of the project site (CDFW 2018).
Fishes				
Catostomus santaanae	Santa Ana sucker	FT/None/S[b]	Small, shallow, cool, clear streams less than 7 meters (23 feet) in width and a few centimeters to more than a meter (1.5 inches to more than 3 feet) in depth; substrates are generally coarse gravel, rubble, and boulder	No expected to occur. The project site lacks aquatic habitat for this species.
Gasterosteus aculeatus williamsoni	unarmored threespine stickleback	FE/SE, FP/S[b]	Slow-moving and backwater areas	No expected to occur. The project site lacks aquatic habitat for this species.
Gila orcuttii	arroyo chub	None/SSC/S[a]	Warm, fluctuating streams with slow-moving or backwater sections of warm to cool streams at depths >40 centimeters (16 inches); substrates of sand or mud	No expected to occur. The project site lacks aquatic habitat for this species.
Rhinichthys osculus ssp. [3]	Santa Ana speckled dace	None/SSC/S[b]	Headwaters of the Santa Ana and San Gabriel Rivers; may be extirpated from the Los Angeles River system	No expected to occur. The project site lacks aquatic habitat for this species.

Scientific Name	Common Name	Status[1] (Federal/ State/ City of LA[2])	Habitat	Potential to Occur[3]
Invertebrates				
Branchinecta lynchi	vernal pool fairy shrimp	FT/None/None	Vernal pools, seasonally ponded areas within vernal swales, and ephemeral freshwater habitats	Not expected to occur. The project site lacks vernal pools, seasonal ponded areas, or ephemeral freshwater habitat suitable for this species.
Euphydryas editha quino	quino checkerspot butterfly	FE/None/None	Annual forblands, grassland, open coastal scrub and chaparral; often soils with cryptogamic crusts and fine-textured clat; host plants include Plantago erecta, Antirrhinum coulterianum, and Plantago patagonica (Silverado Occurrence Complex)	Not expected to occur.
Streptocephalus woottoni	Riverside fairy shrimp	FE/None/S[b]	Vernal pools, non-vegetated ephemeral pools	Not expected to occur. The project site lacks vernal or ephemeral pools suitable for this species.

Notes:

1 Status abbreviations:
- FE: Federally Endangered
- FT: Federally Threatened
- FDL: Federally Delisted
- BCC: U.S. Fish and Wildlife Service Bird of Conservation Concern
- SSC: California Species of Special Concern
- FP: California Fully Protected Species
- WL: California Watch List Species
- SE: State Endangered
- ST: State Threatened
- SDL: State Delisted

2 Sensitive Species within the City of Los Angeles (City of Los Angeles 2006)
- a: Known to occur in Zone 2
- b: Occurrence is known in other zones or is unknown

3 Refers to records within the Oat Mountain USGS 7.5-minute quadrangles (quad) and eight surrounding quads (Val Verde, Newhall, Mint Canyon, Simi Valley East, San Fernando, Calabasas, Canoga Park, Van Nuys).

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APPENDIX D

Cultural Resources Technical Report

HISTORIC PROPERTIES IDENTIFICATION REPORT FOR THE DE SOTO TANKS PROJECT

11200 De Soto Avenue, Los Angeles
Los Angeles County, California

PREPARED BY:

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Environmental Planning and Assessment

111 North Hope Street, Room 1044

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ACRONYMS AND ABBREVIATIONS

ACHP	Advisory Council on Historic Preservation
APE	Area of Potential Effect
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CHRIS	California Historical Resources Information System
City	City of Los Angeles
CRHR	California Register of Historical Resources
DPR	Department of Parks and Recreation
HCM	Historic-Cultural Monument
HPOZ	Historic Preservation Overlay Zone
LADWP	Los Angeles Department of Water and Power
MG	million gallons
MLD	most likely descendant
NAHC	Native American Heritage Commission
NHPA	National Historic Preservation Act
NRHP	National Register of Historic Places
PRC	California Public Resources Code
project	De Soto Tanks Project
SCCIC	Southern California Coastal Information Center
SHPO	State Historic Preservation Officer
SRF	State Revolving Fund
SWRCB	State Water Resources Control Board

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EXECUTIVE SUMMARY

Dudek was retained by the Los Angeles Department of Water and Power (LADWP) to complete a cultural resources study for the De Soto Tanks EIR Project. The De Soto Tanks EIR Project is a water storage project proposed by the LADWP. The project would functionally replace the existing 3-million-gallon (MG) De Soto Reservoir, located at 11200 De Soto Avenue, with two buried, pre-stressed circular concrete storage tanks immediately north of the existing reservoir site. The combined operating storage capacity upon completion of the new storage tanks would be approximately 20 MG. The new tanks would provide additional local storage to increase operational effectiveness, reliability, and flexibility; system redundancy; and emergency water supply to the West San Fernando Valley. The study involved completion of a California Historical Resources Information System (CHRIS) records search, archival research on the town of Chatsworth and LADWP water infrastructure, a pedestrian survey of the project area, and documentation and evaluation of the De Soto Reservoir in consideration of NRHP, CRHR, and City of Los Angeles designation criteria.

As funding for the project is from the State Revolving Fund (SRF) Loan Program, which is partially funded by the U.S. Environmental Protection Agency, the project would be subject to federal environmental regulations. To comply with applicable federal statutes and authorities, the U.S. Environmental Protection Agency established specific "CEQA Plus" requirements in the Operating Agreement with the State Water Resources Control Board for administering the SRF Loan Program. Therefore, the purpose of this report is to identify all cultural resources within the project Area of Potential Effect (APE) and to determine whether the project would result in a significant impact to an historical resource under the California Environmental Quality Act (CEQA) or an adverse effect to an historic property under Section 106 of the National Historic Preservation Act (NHPA).

The CHRIS records search results indicated that no cultural resources were previously recorded within the project APE. After thorough consideration of NRHP, CRHR, and City of Los Angeles Historic-cultural Monument (HCM) designation criteria, the De Soto Reservoir addressed in this project does not appear eligible for either national, state, or local listing. Therefore, it does not appear to be an historical resource for the purposes of CEQA or an historic property for the purposes of Section 106 of the NHPA. Standard protection measures for unanticipated discoveries of archaeological resources and human remains are provided in the Recommendations section (see Section 8.1 and 8.2).

This study finds that the proposed project would have no impact on historical resources under CEQA and would have no effect on historic properties under Section 106 of the NHPA.

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1 INTRODUCTION

The De Soto Tanks Project (project) is a water storage project that is being proposed by the Los Angeles Department of Water and Power (LADWP). The project would functionally replace the existing 3-MG De Soto Reservoir, located at 11200 De Soto Avenue, with two buried, pre-stressed circular concrete storage tanks immediately north of the existing reservoir site. The combined operating storage capacity upon completion of the new storage tanks would be approximately 20 MG. These tanks would provide additional local storage to increase operational effectiveness, reliability, and flexibility; system redundancy; and emergency supply to the West San Fernando Valley.

The existing De Soto Reservoir, located in the northwestern area of the San Fernando Valley, was built in 1941. Excavation at the proposed project site would be required to bury the tanks below existing grade level in order to achieve LADWP's target water elevations for reservoirs; the tanks would be approximately 240 feet in diameter and 40 feet in height. The project would also require the installation of new inlet pipelines that would connect to the LADWP Rinaldi Trunk Line and new outlet pipelines that would connect to the LADWP De Soto Trunk Line and Granada Trunk Line. A new regulator station will be required to reduce water pressure from the Rinaldi Trunk Line originating at the Los Angeles Aqueduct Filtration Plantd. Upon completion of the new De Soto Tanks, a new pump station (the De Soto Pump Station) would be constructed in the location of the existing De Soto Reservoir, which would be removed.

The LADWP retained Dudek to conduct a cultural resources study in support of the project. This report presents the results of a cultural resources records search, an intensive pedestrian survey of the proposed Area of Potential Effects (APE), recordation and evaluation of the extant De Soto Reservoir and surrounding parcel, which was constructed over 45 years ago, and analysis of indirect impacts to the adjacently located Chatsworth Momonga/Mission Trail. This report satisfies the requirements of CEQA, which requires lead agencies to determine whether a discretionary project may have a significant impact on historical resources. The LADWP, as a municipal utility, would implement and operate the project and therefore would be the CEQA lead agency. The regulatory framework for the project is CEQA-Plus, which requires the State Water Resources Control Board (SWRCB) to consult directly with agencies responsible for implementing federal environmental laws and regulations. As such, project-related activities with the potential to affect historic properties are considered federal undertakings, subject to compliance with Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, and its implementing regulations (36 CFR Part 800). Therefore, the purpose of this report is to identify all cultural resources within the project APE and to determine whether the project/undertaking would result in a significant impact to an historical resource under CEQA or an adverse effect to an historic property under Section 106 of the NHPA.

Dudek Architectural Historian Kate Kaiser, MSHP, is the primary author of this report and evaluated the De Soto Reservoir. Archaeologists Erica Nicolay and Elizabeth Denniston requested the records search and conducted the intensive-level survey. Finally, Historic Built Environment Lead Samantha. Murray, MA, served as the Principal Investigators for the project. Ms. Murray and Ms. Kaiser meet the Secretary of the Interior's Professional Qualification Standards (PQS, 36 CFR Part 61) for architectural history. Ms. Murray and Ms. Nicolay also meet the Standards for Archaeology. Preparer's qualifications are provided in Appendix A.

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2 PROJECT DESCRIPTION/UNDERTAKING

2.1 Project Description

The proposed project is a water project that is being proposed by the LADWP. The project would functionally replace the existing 3 MG De Soto Reservoir, located at 11200 De Soto Avenue, with two buried, pre-stressed circular concrete storage tanks and a pump station at the existing reservoir site. The combined operating storage capacity upon completion of the new storage tanks would be approximately 20 MG. These tanks and pump station would provide additional local storage and pumping capability to increase operational effectiveness, reliability, and flexibility; system redundancy; and emergency supply to the West San Fernando Valley.

Construction

The proposed project involves excavation of the site north of the existing De Soto Reservoir to a depth of approximately 50 feet, followed by the construction of two pre-stressed concrete tanks, each of which would be approximately 245 feet in diameter and approximately 40 feet in height. The majority of the excavated material would be hauled from the project site via the State Route (SR) 118 Freeway to both the Mojave Yard, located in the City of Mojave, California, and a facility permitted to accept excavated soil materials. Upon completion of the tanks, the existing reservoir would be demolished in order to facilitate construction of the future pump station.

Excavation for the tanks would involve the use of heavy equipment, including excavators, front loaders, and dozers. Based on preliminary estimates, approximately 350,000 loose cubic yards of soil would need to be excavated at the project site to accommodate the tanks. Approximately 116,000 cubic yards of this material would be used to backfill around the tanks once they are constructed. However, the majority of the excavated material, approximately 340,000 cubic yards, would be hauled off site, requiring approximately 160 truck trips per day, assuming 50% of the haul trucks are 10 cubic-yard haul trucks and 50% of the haul trucks are 15 cubic-yard haul trucks, for 8 hours per day for hauling activities. Excavation and hauling would occur over a period of approximately 8.5 months. Approximately 10,000 cubic yards of the excavated soil would be stockpiled on site, approximately 100,000 cubic yards of excavated soil would be hauled to LADWP's Mojave Yard, and the remaining approximately 240,000 cubic yards of excavated material would be hauled to a facility permitted to accept excavated soil materials.

After excavation, the tank construction would entail the installation of inlet/outlet pipelines, a reinforced concrete floor, the erection of scaffolding for the walls and roof, the installation of wall and roof panels, the construction of columns to support the roof, wrapping the tanks with pre-stressing cables, and the application of concrete on the walls and roof. This process would involve the delivery of materials and concrete and the use of heavy equipment, including cranes and concrete pump trucks.

East of the tank site would be a new below ground flow control station. The purpose of the flow control station would be to control the water flow into the tanks from the Rinaldi Trunk Line to the east. The flow control station would be

approximately 2,500 square feet in size and house mechanical equipment and controls to regulate water flow into the tanks.

After completion of the tanks and flow control station, the area surrounding the tanks would be backfilled, and a perimeter road would be constructed around the tanks for maintenance access. All cut slopes from excavation would be properly stabilized and revegetated. Although the tanks themselves would be buried, the roof of the tanks would not be covered.

New pipelines, inlet, and outlet pipelines of the tanks would be constructed on site as well as extend off site to connect with Rinaldi Trunk Line to the east and De Soto Trunk Line to the south. After completion of the tanks and pipelines, the existing De Soto Reservoir would be demolished and the new pump station would be constructed. To install the new 66-inch pipeline connection to the Rinaldi Trunk Line to the east, two open trenches would be constructed to facilitate pipe jacking below grade. A total of 620 feet of pipeline would be required for this connection. One open trench would be located on the project site and the second trench would be located within the existing 60-foot LADWP easement on the east side of Rinaldi Street. With pipe jacking occurring below grade, Rinaldi Street would remain open to through traffic throughout the estimated 9 month pipeline installation process.

To connect the project with the De Soto Trunk Line, new piping would be installed below ground on the project site and south along De Soto Avenue. Approximately 570 feet of pipe jacking from the storage tanks to the project site's western boundary would be done on site. Upon reaching the project site's western boundary at De Soto Avenue, open trench pipeline installation would occur along the eastern side (approximately 35 feet of work area required) of De Soto Avenue. Pipeline installation along De Soto Avenue would occur along approximately 2,650 feet extending from the project site at the north to Chatsworth Street at the south. With the exception of pipe jacking beneath the intersection of De Soto Avenue and Rinaldi Street, all other pipeline installation would be done via cut-and-cover construction, therefore requiring the closing of 2 traffic lanes and the median lane along De Soto Avenue throughout the approximately 24 month construction period. Upon completion of pipeline installation, the roadway would be repaired, repaved, and the lanes along De Soto Avenue would be reopened.

Access to and egress from the site during construction would be from Rinaldi Street on the east and/or De Soto Avenue on the west. Construction of the proposed project would take approximately 6 years to complete, beginning 2023.

Upon completion of the storage tanks, the existing De Soto Reservoir would no longer be necessary and as such would be demolished. Demolition of the reservoir would entail demolition of the following: aluminum roof decking, timber roof framing, concrete columns, perimeter concrete walls, and asphalt concrete paving. This would result in approximately 560 tons or 440 cubic yards of material that would be hauled from the project site. As with the excavated earth removed during the construction of the storage tanks, the excavated material would be hauled off site, requiring approximately 50 truck trips. Excavated material would be hauled from the project site via the SR 118 Freeway to a facility permitted to accept excavated soil materials.

Operation

As discussed above, the proposed tanks would store potable water to increase operational effectiveness, reliability, and flexibility; system redundancy; and emergency supply to the West San Fernando Valley. The proposed flow control station would control water flow coming from Los Angeles Aqueduct Filtration Plant UV Plant weir, which has an 1,191-foot high water elevation, to De Soto Tanks, which have an 1,130-foot high water elevation. The proposed De Soto Pump Station would pump water from De Soto Tanks to the 1,305-foot pressure zone in the west valley. No workers would be required to operate these facilities on a daily basis; however, these facilities would require periodic maintenance. As such, operational activities would be essentially the same as those that occur under existing conditions.

2.2 Project Location

The proposed project site is located at 11200 De Soto Avenue, in the Chatsworth community of City of Los Angeles. The project site is generally bounded by the SR 118 Freeway to the north, De Soto Avenue to the west, and Rinaldi Street to the south and east. Adjacent to the De Soto Reservoir property on the east side is an undeveloped, privately-owned parcel of land that would be acquired in order to facilitate construction of the proposed project. The project is located in Council District No. 12 and in the Chatsworth Neighborhood Council area.

The proposed project would occur on several assessor's parcels owned by LADWP. The southernmost parcel (APN 2706007901) is developed with the existing De Soto Reservoir, which would be removed after completion of the proposed tanks. The two northernmost parcels (APNs 2701003907 and 2707001904) are essentially undeveloped. An additional undeveloped parcel (APN 2707001019), not owned by LADWP, is proposed for acquisition to facilitate project construction. The project site is highly disturbed, consisting primarily of ruderal vegetation that is maintained through mowing and/or tilling. A 12-foot wide dedicated equestrian trail easement extends from Rinaldi Street on the south adjacent to the eastern edge of the southernmost LADWP parcel, where the reservoir is located. This formal easement does not continue across the northernmost LADWP parcels, but LADWP has allowed equestrian access across these parcels between Rinaldi Street on the east and the dedicated equestrian easement on the west. Throughout construction and operation of the proposed project, equestrian access would be maintained.

Existing development that adjoins the LADWP property includes Sierra Canyon School to south/southeast of the project site and residential properties to the southwest. Undeveloped property adjoins the LADWP property to the south, west, and northeast. The SR 118 Freeway is located directly north of the project site. Surrounding uses include Sierra Canyon School to the west of De Soto Avenue, residential development south and southeast of Rinaldi Street, and open space and residential development north of the SR 118 Freeway. An overview of the project location is shown in Figures 1 and 2.

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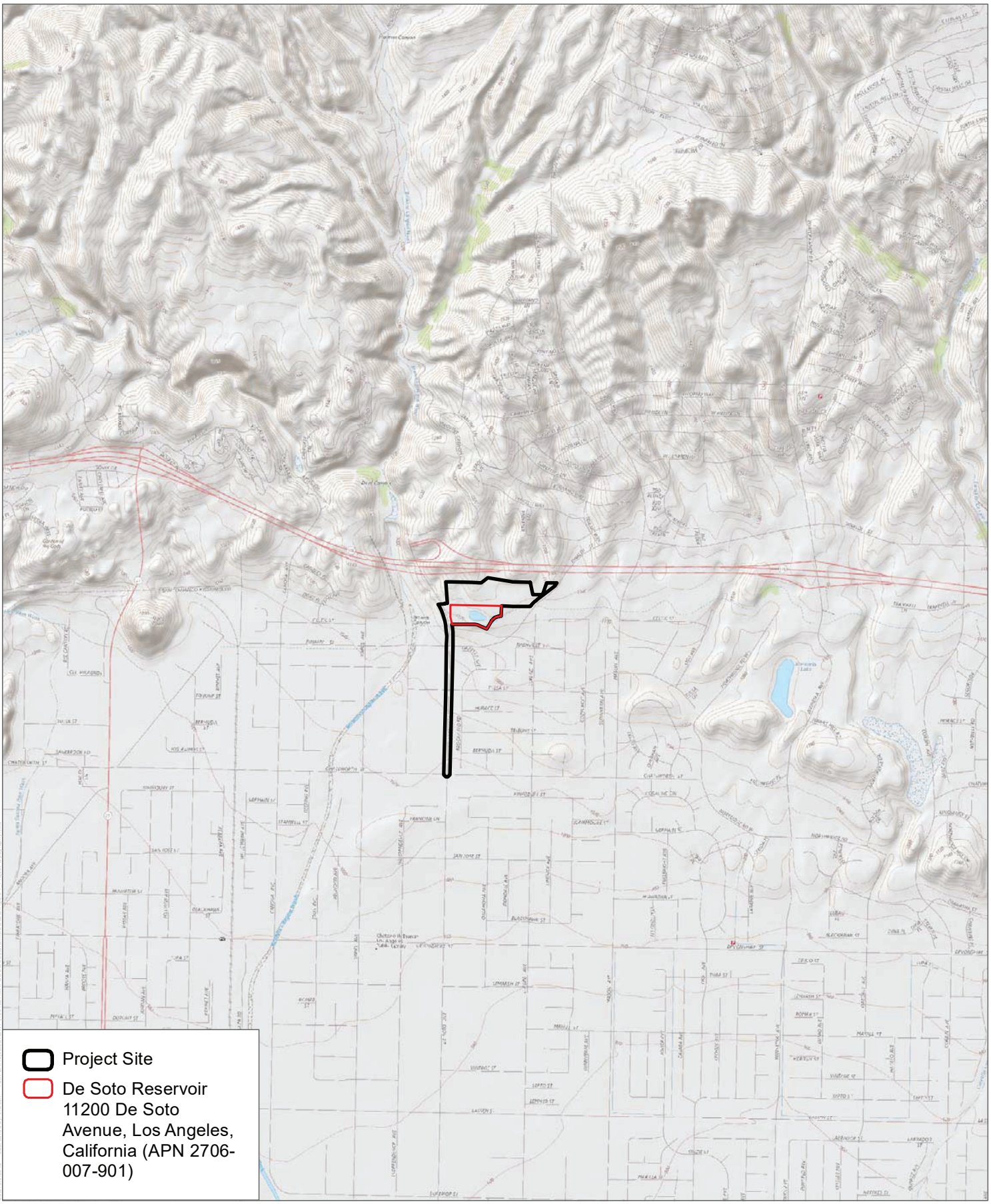

SOURCE: USGS 7.5-Minute Series Oat Mountain Quadrangle
Township 2N; Range 16W; Section 8

DUDEK

0 1,000 2,000 Feet
0 285 570 Meters
1:24,000

FIGURE 1

Project Topography

LADWP De Soto Tanks Cultural Report

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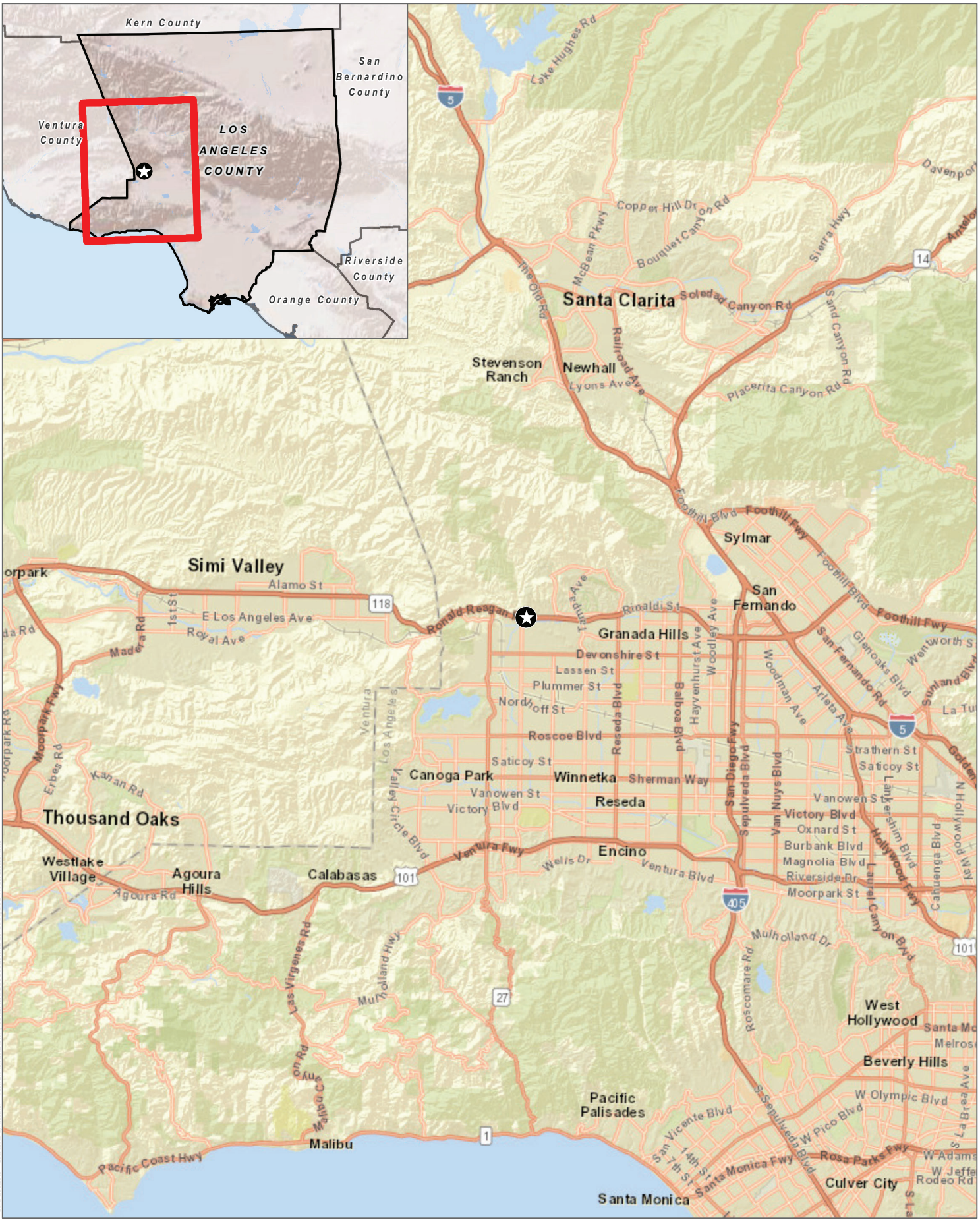

SOURCE: ESRI 2018

DUDEK

0 10,500 21,000 Feet

FIGURE 2

Vicinity Map

LADWP De Soto Tanks Cultural Report

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2.3 Area of Potential Effect

The APE is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties. Determination of the APE is influenced by a project's setting, the scale and nature of the undertaking, and the different kinds of effects that may result from the undertaking (36 CFR 800.16(d)). The project includes both a direct and indirect APE. Unlike archaeological resources, which are considered only in the project's direct APE, historic built environment resources are considered in both the project's direct and indirect APE, as built resources are subject to indirect impacts such as vibration and visual intrusions. The project APE (Figure 3) includes consideration of the direct and indirect effects of the project/undertaking.

The direct APE is where ground disturbance is expected to occur, representing the project footprint. The direct APE includes the following:

- The area north of the existing De Soto Reservoir, which will be excavated to a depth of approximately 50 feet to accommodate two 240 foot diameter concrete tanks, and new pipelines, the inlets, and outlets pipelines of the tanks;
- Staging areas around the parcel for heavy equipment, including excavators, front loaders, and dozers, as well as delivered materials for the construction of the two new tanks;
- Staging areas for approximately 350,000 loose cubic yards of excavated soils prior to being used as backfill or hauled off site. Excavation and hauling would occur over a period of about 8 months;
- Excavated material would be hauled from the project site via the SR 118 Freeway to a facility permitted to accept excavated soil materials;
- The existing reservoir would be demolished in order to facilitate construction of the future pump station;
- Access to and egress from the site during construction would be from Rinaldi Street on the east and/or De Soto Avenue on the west. Construction of the proposed project would take approximately 6 years to complete, beginning in late 2020.

The vertical extent of the APE for the project is considered the depth of soils disturbed during intake channel construction that have the potential to contain intact cultural deposits, estimated to be 50 feet below grade.

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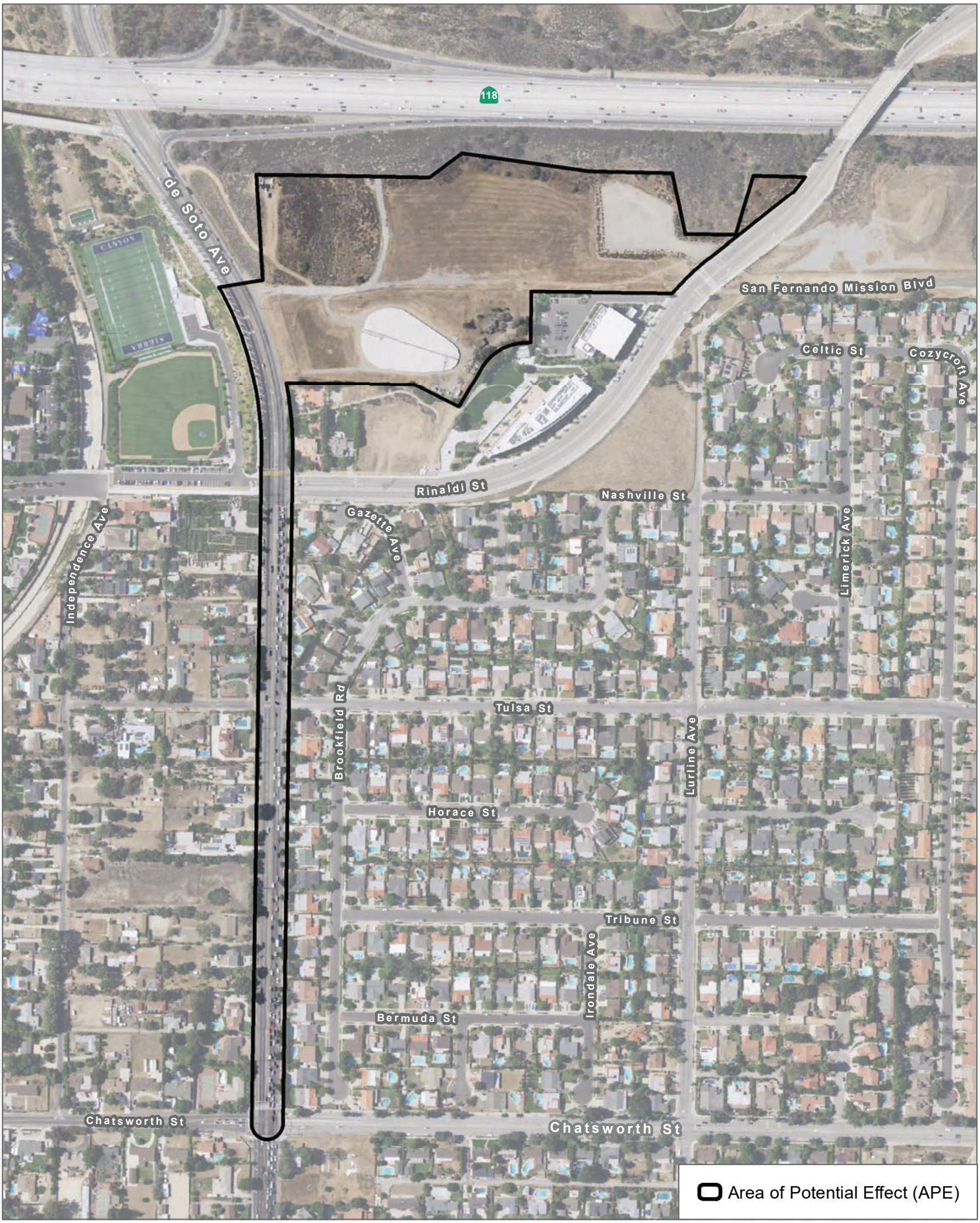

SOURCE: ESRI 2018

DUDEK

0 200 400 Feet

FIGURE 3

Area of Potential Effect (APE)

LADWP De Soto Tanks Cultural Report

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2.4 Regulatory Setting

This study was completed in compliance with federal cultural resources laws and regulations, including Section 106 of the NHPA. Under Section 106, historic and archaeological districts, sites, buildings, structures, and objects are assigned significance based on their exceptional value or quality in illustrating or interpreting history, architecture, archaeology, engineering, and culture. A number of criteria are used in demonstrating resource importance; these are described below.

Federal

The NHPA established the National Register of Historic Places (NRHP) and the President's Advisory Council on Historic Preservation (ACHP), and provided that states may establish State Historic Preservation Officers (SHPOs) to carry out some of the functions of the NHPA. Most significantly for federal agencies responsible for managing cultural resources, Section 106 of the NHPA directs that

> [t]he head of any Federal agency having direct or indirect jurisdiction over a proposed Federal or federally assisted undertaking in any State and the head of any Federal department or independent agency having authority to license any undertaking shall, prior to the approval of the expenditure of any Federal funds on the undertaking or prior to the issuance of any license, as the case may be, take into account the effect of the undertaking on any district, site, building, structure, or object that is included in or eligible for inclusion in the NRHP.

Section 106 also affords the ACHP a reasonable opportunity to comment on the undertaking (16 USC 470f).

36 Code of Federal Regulations, Part 800 (36 CFR 800) implements Section 106 of the NHPA. It defines the steps necessary to identify historic properties (those cultural resources listed in or eligible for listing in the NRHP), including consultation with federally recognized Native American tribes to identify resources with important cultural values; to determine whether or not they may be adversely affected by a proposed undertaking; and the process for eliminating, reducing, or mitigating the adverse effects.

The content of 36 CFR 60.4 defines criteria for determining eligibility for listing in the NRHP. The significance of cultural resources identified during an inventory must be formally evaluated for historic significance in consultation with the ACHP and the California SHPO to determine if the resources are eligible for inclusion in the NRHP. Cultural resources may be considered eligible for listing if they possess integrity of location, design, setting, materials, workmanship, feeling, and association.

Regarding criteria A through D of Section 106, the quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, cultural resources, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and that:

A. Are associated with events that have made a significant contribution to the broad patterns of our history; or

B. Are associated with the lives of persons significant in our past; or

C. Embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

D. have yielded or may be likely to yield, information important in prehistory or history [36 CFR 60.4].

The 1992 amendments to the NHPA enhance the recognition of tribal governments' roles in the national historic preservation program, including adding a member of an Indian tribe or Native Hawaiian organization to the ACHP.

The NHPA amendments:

- Clarify that properties of traditional religious and cultural importance to an Indian tribe or Native Hawaiian organization may be determined eligible for inclusion in the National Register
- Reinforce the provisions of the Council's regulations that require the federal agency to consult on properties of religious and cultural importance.

The 1992 amendments also specify that the ACHP can enter into agreement with tribes that permit undertakings on tribal land and that are reviewed under tribal regulations governing Section 106. Regulations implementing the NHPA state that a federal agency must consult with any Indian tribe that attaches religious and cultural significance to historic properties that may be affected by an undertaking.

State

California Register of Historical Resources

In California, the term "historical resource" includes "any object, building, structure, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California" (PRC Section 5020.1(j)). In 1992, the California legislature established the CRHR "to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (PRC Section 5024.1(a)). The criteria for listing resources in the CRHR were expressly developed to be in accordance with previously established criteria developed for listing in the NRHP, enumerated below. According to PRC Section 5024.1(c)(1–4), a resource is considered historically significant if it (i) retains "substantial integrity," and (ii) meets at least one of the following criteria:

(1) Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.

(2) Is associated with the lives of persons important in our past.

(3) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.

(4) Has yielded, or may be likely to yield, information important in prehistory or history.

To understand the historic importance of a resource, sufficient time must have passed to obtain a scholarly perspective on the events or individuals associated with the resource. A resource younger than 50 years old may be considered for listing in the CRHR if it can be demonstrated that sufficient time has passed to understand its historical importance (see California Code of Regulations, Title 14, Section 4852(d)(2)).

The CRHR protects cultural resources by requiring evaluations of the significance of prehistoric and historic resources. The criteria for the CRHR are nearly identical to those for the NRHP, and properties listed or formally designated as eligible for listing in the NRHP are automatically listed in the CRHR, as are state landmarks and points of interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys.

California Environmental Quality Act

As described further below, the following CEQA statutes and guidelines are of relevance to the analysis of archaeological, historic, and tribal cultural resources:

- PRC Section 21083.2(g) defines "unique archaeological resource."
- PRC Section 21084.1 and CEQA Guidelines Section 15064.5(a) defines "historical resources." In addition, CEQA Guidelines Section 15064.5(b) defines the phrase "substantial adverse change in the significance of an historical resource"; it also defines the circumstances when a project would materially impair the significance of an historical resource.
- PRC Section 21074(a) defines "tribal cultural resources."
- PRC Section 5097.98 and CEQA Guidelines Section 15064.5(e) set forth standards and steps to be employed following the accidental discovery of human remains in any location other than a dedicated ceremony.
- PRC Sections 21083.2(b)-(c) and CEQA Guidelines Section 15126.4 provide information regarding the mitigation framework for archaeological and historic resources, including examples of preservation-in-place mitigation measures; preservation-in-place is the preferred manner of mitigating impacts to significant archaeological sites because it maintains the relationship between artifacts and the archaeological context, and may also help avoid conflict with religious or cultural values of groups associated with the archaeological site(s).

Under CEQA, a project may have a significant effect on the environment if it may cause "a substantial adverse change in the significance of an historical resource" (PRC Section 21084.1; CEQA Guidelines Section 15064.5(b)). If a site is either listed or eligible for listing in the CRHR, or if it is included in a local register of historic resources, or identified as significant in a historical resources survey (meeting the requirements of PRC Section 5024.1(q)), it

is a "historical resource" and is presumed to be historically or culturally significant for the purposes of CEQA (PRC Section 21084.1; CEQA Guidelines Section 15064.5(a)). The lead agency is not precluded from determining that a resource is a historical resource even if it does not fall within this presumption (PRC Section 21084.1; CEQA Guidelines Section 15064.5(a)).

A "substantial adverse change in the significance of an historical resource" reflecting a significant effect under CEQA means "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired" (CEQA Guidelines Section 15064.5(b)(1); PRC Section 5020.1(q)). In turn, the significance of a historical resource is materially impaired when a project does any of the following (CEQA Guidelines Section 15064.5(b)(2)):

1) Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register; or
2) Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to Section 5020.1(k) of the PRC or its identification in an historical resources survey meeting the requirements of Section 5024.1(g) of the PRC, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
3) Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register as determined by a lead agency for purposes of CEQA.

Pursuant to these sections, the CEQA inquiry begins with evaluating whether a project site contains any historical resources, then evaluates whether that project would cause a substantial adverse change in the significance of a historical resource such that the resource's historical significance is materially impaired.

If it can be demonstrated that a project would cause damage to a unique archaeological resource, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that they cannot be left undisturbed, mitigation measures are required (Section 21083.2(a), (b), and (c)).

Section 21083.2(g) defines a unique archaeological resource as an archaeological artifact, object, or site about which it can be clearly demonstrated that without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

(1) Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.

(2) Has a special and particular quality such as being the oldest of its type or the best available example of its type.

(3) Is directly associated with a scientifically recognized important prehistoric or historic event or person.

Impacts to non-unique archaeological resources are generally not considered a significant environmental impact (PRC Section 21083.2(a); CEQA Guidelines Section 15064.5(c)(4)). However, if a non-unique archaeological resource qualifies as tribal cultural resource (PRC Sections 21074(c) and 21083.2(h)), further consideration of significant impacts is required.

CEQA Guidelines Section 15064.5 assigns special importance to human remains and specifies procedures to be used when Native American remains are discovered. As described below, these procedures are detailed in PRC Section 5097.98.

California Health and Safety Code

California law protects Native American burials, skeletal remains, and associated grave goods, regardless of their antiquity, and provides for the sensitive treatment and disposition of those remains. Health and Safety Code Section 7050.5 requires that if human remains are discovered in any place other than a dedicated cemetery, no further disturbance or excavation of the site or nearby area reasonably suspected to contain human remains can occur until the County Coroner has examined the remains (Health and Safety Code Section 7050.5b). PRC Section 5097.98 outlines the process to be followed in the event that remains are discovered. If the coroner determines or has reason to believe the remains are those of a Native American, the coroner must contact the Native American Heritage Commission (NAHC) within 24 hours (Health and Safety Code Section 7050.5c). The NAHC would notify the most likely descendant (MLD). With the permission of the landowner, the MLD may inspect the site of discovery. The inspection must be completed within 48 hours of notification of the MLD by the NAHC. The MLD may recommend means of treating or disposing of, with appropriate dignity, the human remains and items associated with Native Americans.

Local

Los Angeles Historic-Cultural Monuments

Local landmarks in the City of Los Angeles are known as Historic-Cultural Monuments (HCMs) and are under the aegis of the Planning Department, Office of Historic Resources. They are defined in the Cultural Heritage Ordinance as follows (Los Angeles Municipal Code Section 22.171.7, added by Ordinance No. 178,402, effective April 2, 2007):

> Historic-Cultural Monument (Monument) is any site (including significant trees or other plant life located on the site), building or structure of particular historic or cultural significance to the City of Los Angeles, including historic structures or sites in which the broad cultural, economic or social history of the nation, State or community is reflected or exemplified; or which is identified with historic personages or with important events in the main currents of national, State or local history; or which embodies the distinguishing characteristics of an architectural type specimen, inherently valuable for a

> study of a period, style or method of construction; or a notable work of a master builder, designer, or architect whose individual genius influenced his or her age.

For the purposes of SurveyLA, this definition has been broken down into the following four HCM designation criteria that closely parallel the existing NRHP and CRHR criteria:

1. Is identified with important events in the main currents of national, State or local history, or exemplifies significant contributions to the broad cultural, political, economic or social history of the nation, state, city, or community; or
2. Is associated with the lives of Historic Personages important to national, state, city, or local history; or
3. Embodies the distinctive characteristics of a style, type, period, or method of construction; or represents a notable work of a master designer, builder or architect whose genius influenced his or her age; or possesses high artistic values; or
4. Has yielded, or has the potential to yield, information important to the pre-history or history of the nation, state, city or community.

Historic Preservation Overlay Zones

As described by the City of Los Angeles Office of Historic Resources, the Historic Preservation Overlay Zone (HPOZ) Ordinance was adopted in 1979 and amended in 2004 to identify and protect neighborhoods with distinct architectural and cultural resources. HPOZs, commonly known as historic districts, provide for review of proposed exterior alterations and additions to historic properties within designated districts.

Regarding HPOZ eligibility, City of Los Angeles Ordinance Number 175891 states (Los Angeles Municipal Code, Section 12.20.3):

> Features designated as contributing shall meet one or more of the following criteria:
>
> 1. adds to the Historic architectural qualities or Historic associations for which a property is significant because it was present during the period of significance, and possesses Historic integrity reflecting its character at that time; or
> 2. owing to its unique location or singular physical characteristics, represents an established feature of the neighborhood, community or city; or
> 3. retaining the building, structure, Landscaping, or Natural Feature, would contribute to the preservation and protection of an Historic place or area of Historic interest in the City.

Regarding effects on federal and locally significant properties, Los Angeles Municipal Code states the following (Section 91.106.4.5, Permits for Historical and Cultural Buildings):

The department shall not issue a permit to demolish, alter or remove a building or structure of historical, archaeological or architectural consequence if such building or structure has been officially designated, or has been determined by state or federal action to be eligible for designation, on the National Register of Historic Places, or has been included on the City of Los Angeles list of historic cultural monuments, without the department having first determined whether the demolition, alteration or removal may result in the loss of or serious damage to a significant historical or cultural asset. If the department determines that such loss or damage may occur, the applicant shall file an application and pay all fees for the California Environmental Quality Act Initial Study and Check List, as specified in Section 19.05 of the Los Angeles Municipal Code. If the Initial Study and Check List identifies the historical or cultural asset as significant, the permit shall not be issued without the department first finding that specific economic, social or other considerations make infeasible the preservation of the building or structure.

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3 HISTORIC CONTEXT

3.1 Environmental Setting

The project site is located within the San Fernando Valley at the base of the Santa Susana Mountains. The San Gabriel Mountains are to the northeast, and the Santa Monica Mountains to the south. The project slopes to the south from the mountain foothills to the valley floor. Elevations range from 1,150 feet (351 m) above mean sea level (amsl) at the northern extent to 790 feet (241 m) amsl at the southern extent. There is no plant association for this site. The area surrounding the project area is completely urbanized and natural plant communities have been eradicated. Patches of non-native grasses are present on the parcel, as well as the cut stumps of what appear to be ornamental trees, likely eucalyptus, and palms and young eucalyptus near the parcel edge nearest the road. The De Soto Tanks are situated at the base of a small slope. The project is underlain by Quaternary alluvium and marine deposits (map unit Q), with Upper Cretaceous marine rocks, unit 1 (map unit Ku) within the Santa Susana Mountains to the north.

3.2 Cultural Setting

Prehistoric Overview

Numerous chronological sequences have been devised to aid in understanding cultural changes within southern California. Building on early studies and focusing on data synthesis, Wallace (1955, 1978) developed a prehistoric chronology for the southern California coastal region that is still widely used today and is applicable to near-coastal and many inland areas. Four periods are presented in Wallace's prehistoric sequence: Early Man, Milling Stone, Intermediate, and Late Prehistoric. Although Wallace's (1955) synthesis initially lacked chronological precision due to a paucity of absolute dates (Moratto 1984), this situation has been alleviated by the availability of thousands of radiocarbon dates that have been obtained by southern California researchers in the last three decades (Byrd and Raab 2007:217). Several revisions have been made to Wallace's (1955) synthesis using radiocarbon dates and projectile point assemblages (e.g., Koerper and Drover 1983; Koerper et al. 2002; Mason and Peterson 1994).

Horizon I–Early Man (ca. 10,000–6,000 B.C.)

When Wallace defined the Horizon I (Early Man) period in the mid-1950s, there was little evidence of human presence on the southern California coast prior to 6000 B.C. Archaeological work in the intervening years has identified numerous pre-8000 B.C. sites, both on the mainland coast and the Channel Islands (e.g., Erlandson 1991; Johnson et al. 2002; Moratto 1984; Rick et al. 2001). The earliest accepted dates for occupation are from two of the northern Channel Islands, located off the coast of Santa Barbara. On San Miguel Island, Daisy Cave clearly establishes the presence of people in this area about 10,000 years ago (Erlandson 1991). On Santa Rosa Island, human remains have been dated from the Arlington Springs site to approximately 13,000 years ago (Johnson et al. 2002). Present-day Orange and San Diego counties contain several sites dating to 9,000 to 10,000 years ago (Byrd and Raab 2007; Macko 1998a; Mason and Peterson 1994; Sawyer and Koerper 2006). Known sites dating to the Early Man period are rare in western Riverside

County. One exception is the Elsinore site (CA-RIV-2798-B), which has deposits dating as early as 6630 calibrated B.C. (Grenda 1997).

Recent data from Horizon I sites indicate that the economy was a diverse mixture of hunting and gathering, with a major emphasis on aquatic resources in many coastal areas and on Pleistocene lakeshores in eastern San Diego County (see Moratto 1984). Although few Clovis-like or Folsom-like fluted points have been found in southern California (e.g., Dillon 2002; Erlandson et al. 1987), it is generally thought that the emphasis on hunting may have been greater during Horizon I than in later periods. Common elements in many sites from this period, for example, include leaf-shaped bifacial projectile points and knives, stemmed or shouldered projectile points, scrapers, engraving tools, and crescents (Wallace 1978). Subsistence patterns shifted around 6000 B.C. coincident with the gradual desiccation associated with the onset of the Altithermal climatic regime, a warm and dry period that lasted for about 3,000 years. After 6000 B.C., a greater emphasis was placed on plant foods and small animals.

Horizon II–Milling Stone (6000–3000 B.C.)

The Milling Stone Horizon of Wallace (1955, 1978) and Encinitas Tradition of Warren (1968) (6000–3000 B.C.) are characterized by subsistence strategies centered on collecting plant foods and small animals. Food procurement activities included hunting small and large terrestrial mammals, sea mammals, and birds; collecting shellfish and other shore species; near-shore fishing with barbs or gorges; the processing of yucca and agave; and the extensive use of seed and plant products (Kowta 1969). The importance of the seed processing is apparent in the dominance of stone grinding implements in contemporary archaeological assemblages, namely milling stones (metates and slabs) and handstones (manos and mullers). Milling stones occur in large numbers for the first time during this period, and are more numerous still near the end of this period. Recent research indicates that Milling Stone Horizon food procurement strategies varied in both time and space, reflecting divergent responses to variable coastal and inland environmental conditions (Byrd and Raab 2007).

Milling Stone Horizon sites are common in the southern California coastal region between Santa Barbara and San Diego, and at many inland locations, including the Prado Basin in western Riverside County and the Pauma Valley in northeastern San Diego County (e.g., Herring 1968; Langenwalter and Brock 1985; Sawyer and Brock 1999; Sutton 1993; True 1958). Wallace (1955, 1978) and Warren (1968) relied on several key coastal sites to characterize the Milling Stone period and Encinitas Tradition, respectively. These include the Oak Grove Complex in the Santa Barbara region, Little Sycamore in southwestern Ventura County, Topanga Canyon in the Santa Monica Mountains, and La Jolla in San Diego County. The well-known Irvine site (CA-ORA-64) has occupation levels dating between ca. 6000 and 4000 B.C. (Drover et al. 1983; Macko 1998b).

Stone chopping, scraping, and cutting tools made from locally available raw material are abundant in Milling Stone/Encinitas deposits. Less common are projectile points, which are typically large and leaf-shaped, and bone tools such as awls. Items made from shell, including beads, pendants, and abalone dishes, are generally rare. Evidence of weaving or basketry is present at a few sites. Kowta (1969) attributes the presence of numerous scraper-planes in Milling

Stone sites to the preparation of agave or yucca for food or fiber. The mortar and pestle, associated with pounding foods such as acorns, were first used during the Milling Stone Horizon (Wallace 1955, 1978; Warren 1968).

Cogged stones and discoidals are diagnostic Milling Stone period artifacts, and most specimens have been found within sites dating between 4000 and 1000 B.C. (Moratto 1984). The cogged stone is a ground stone object with gear-like teeth on its perimeter. Discoidals are similar to cogged stones, differing primarily in their lack of edge modification. Discoidals are found in the archaeological record subsequent to the introduction of the cogged stone. Cogged stones and discoidals are often purposefully buried, and are found mainly in sites along the coastal drainages from southern Ventura County southward, with a few specimens inland at Cajon Pass, and heavily in Orange County (Dixon 1968; Moratto 1984). These artifacts are often interpreted as ritual objects (Eberhart 1961; Dixon 1968), although alternative interpretations (such as gaming stones) have also been put forward (e.g., Moriarty and Broms 1971).

Characteristic mortuary practices of the Milling Stone period or Encinitas Tradition include extended and loosely flexed burials, some with red ochre, and few grave goods such as shell beads and milling stones interred beneath cobble or milling stone cairns. "Killed" milling stones, exhibiting holes, may occur in the cairns. Reburials are common in the Los Angeles County area, with north-oriented flexed burials common in Orange and San Diego counties (Wallace 1955, 1978; Warren 1968).

Koerper and Drover (1983) suggest that Milling Stone period sites represent evidence of migratory hunters and gatherers who used marine resources in the winter and inland resources for the remainder of the year. Subsequent research indicates greater sedentism than previously recognized. Evidence of wattle-and-daub structures and walls has been identified at several sites in the San Joaquin Hills and Newport Coast area (Mason et al. 1991, 1992, 1993; Koerper 1995; Strudwick 2005; Sawyer 2006), while numerous early house pits have been discovered on San Clemente Island (Byrd and Raab 2007). This architectural evidence and seasonality studies suggest semi-permanent residential base camps that were relocated seasonally (de Barros 1996; Koerper et al. 2002; Mason et al. 1997) or permanent villages from which a portion of the population left at certain times of the year to exploit available resources (Cottrell and Del Chario 1981).

Horizon III–Intermediate (3000 B.C.–A.D. 500)

Following the Milling Stone Horizon, Wallace's Intermediate Horizon and Warren's Campbell Tradition in Santa Barbara, Ventura, and parts of Los Angeles counties, date from approximately 3000 B.C. to A.D. 500 and are characterized by a shift toward a hunting and maritime subsistence strategy, along with a wider use of plant foods. The Campbell Tradition (Warren 1968) incorporates David B. Rogers' (1929) Hunting Culture and related expressions along the Santa Barbara coast. In the San Diego region, the Encinitas Tradition (Warren 1968) and the La Jolla Culture (Moriarty 1966; Rogers 1939, 1945) persist with little change during this time.

During the Intermediate Horizon and Campbell Tradition, there was a pronounced trend toward greater adaptation to regional or local resources. For example, an increasing variety and abundance of fish, land mammal, and sea mammal remains are found in sites along the California coast during this period. Related chipped stone tools suitable for hunting

are more abundant and diversified, and shell fishhooks become part of the tool kit during this period. Larger knives, a variety of flake scrapers, and drill-like implements are common during this period. Projectile points include large side-notched, stemmed, and lanceolate or leaf-shaped forms. Koerper and Drover (1983) consider Gypsum Cave and Elko series points, which have a wide distribution in the Great Basin and Mojave deserts between ca. 2000 B.C. and A.D. 500, to be diagnostic of this period. Bone tools, including awls, were more numerous than in the preceding period, and the use of asphaltum adhesive was common.

Mortars and pestles became more common during this period, gradually replacing manos and metates as the dominant milling equipment. Hopper mortars and stone bowls, including steatite vessels, appeared in the tool kit at this time as well. This shift appears to correlate with the diversification in subsistence resources. Many archaeologists believe this change in milling stones signals a shift away from the processing and consuming of hard seed resources to the increasing importance of the acorn (e.g., Glassow et al. 1988; True 1993). It has been argued that mortars and pestles may have been used initially to process roots (e.g., tubers, bulbs, and corms associated with marshland plants), with acorn processing beginning at a later point in prehistory (Glassow 1997) and continuing to European contact.

Characteristic mortuary practices during the Intermediate Horizon and Campbell Tradition included fully flexed burials, placed facedown or face-up, and oriented toward the north or west (Warren 1968). Red ochre was common, and abalone shell dishes were infrequent. Interments sometimes occurred beneath cairns or broken artifacts. Shell, bone, and stone ornaments, including charmstones, were more common than in the preceding Encinitas Tradition. Some later sites include Olivella shell and steatite beads, mortars with flat bases and flaring sides, and a few small points. The broad distribution of steatite from the Channel Islands and obsidian from distant inland regions, among other items, attest to the growth of trade, particularly during the latter part of this period. Recently, Raab and others (Byrd and Raab 2007) have argued that the distribution of Olivella grooved rectangle (OGR) beads marks "a discrete sphere of trade and interaction between the Mojave Desert and the southern Channel Islands."

Horizon IV–Late Prehistoric (A.D. 500–Historic Contact)

In the Late Prehistoric Horizon (Wallace 1955, 1978), which lasted from the end of the Intermediate (ca. A.D. 500) until European contact, there was an increase in the use of plant food resources in addition to an increase in land and sea mammal hunting. There was a concomitant increase in the diversity and complexity of material culture during the Late Prehistoric, demonstrated by more classes of artifacts. The recovery of a greater number of small, finely chipped projectile points, usually stemless with convex or concave bases, suggests an increased usage of the bow and arrow rather than the atlatl (spear thrower) and dart for hunting. Other items include steatite cooking vessels and containers, the increased presence of smaller bone and shell circular fishhooks, perforated stones, arrow shaft straighteners made of steatite, a variety of bone tools, and personal ornaments made from shell, bone, and stone. There is also an increased use of asphalt for waterproofing and as an adhesive.

Many Late Prehistoric sites contain beautiful and complex objects of utility, art, and decoration. Ornaments include drilled whole venus clam (Chione spp.) and drilled abalone (Haliotis spp.). Steatite effigies become more common, with

scallop (Pecten spp. and Argopecten spp.) shell rattles common in middens. Mortuary customs are elaborate and include cremation and interment with abundant grave goods. By A.D. 1000, fired clay smoking pipes and ceramic vessels began to appear at some sites (Drover 1971, 1975; Meighan 1954). The scarcity of pottery in coastal and near-coastal sites implies ceramic technology was not well developed in that area, or that ceramics were obtained by trade with neighboring groups to the south and east. The lack of widespread pottery manufacture is usually attributed to the high quality of tightly woven and watertight basketry that functioned in the same capacity as ceramic vessels.

Another feature typical of Late Prehistoric period occupation is an increase in the frequency of obsidian imported from the Obsidian Butte source in Imperial County, California. Obsidian Butte was exploited after ca. A.D. 1000 when it was exposed by the receding waters of Holocene Lake Cahuilla (Wilke 1974). A Late Prehistoric period component of the Elsinore site (CA-RIV-2798-A) produced two flakes that originated from Obsidian Butte (Grenda 1997; Towner et al. 1997). Although about 16 percent of the debitage at the Peppertree site (CA-RIV-463) at Perris Reservoir is obsidian, no sourcing study was done (Wilke 1974). The site contains a late Intermediate to Late Prehistoric period component, and it is assumed that most of the obsidian originated from Obsidian Butte. In the earlier Milling Stone and Intermediate periods, most of the obsidian found at sites within Riverside County came from northern sources, primarily the Coso volcanic field. This appears to be the case within Prado Basin and other interior sites that have yielded obsidian (e.g., Grenda 1995; Taşkiran 1997). The presence of Grimes Canyon (Ventura County) fused shale at southern California archaeological sites is also thought to be typical of the Late Prehistoric period (Demcak 1981; Hall 1988).

During this period, there was an increase in population size accompanied by the advent of larger, more permanent villages (Wallace 1955). Large populations and, in places, high population densities are characteristic, with some coastal and near-coastal settlements containing as many as 1,500 people. Many of the larger settlements were permanent villages in which people resided year-round. The populations of these villages may have also increased seasonally.

In Warren's (1968) cultural ecological scheme, the period between A.D. 500 and European contact is divided into three regional patterns. The Chumash Tradition is present mainly in the region of Santa Barbara and Ventura counties; the Takic or Numic Tradition is present in the Los Angeles, Orange, and western Riverside counties region; and the Yuman Tradition is present in the San Diego region. The seemingly abrupt changes in material culture, burial practices, and subsistence focus at the beginning of the Late Prehistoric period are thought to be the result of a migration to the coast of peoples from inland desert regions to the east. In addition to the small triangular and triangular side-notched points similar to those found in the desert regions in the Great Basin and Lower Colorado River, Colorado River pottery and the introduction of cremation in the archaeological record are diagnostic of the Yuman Tradition in the San Diego region. This combination certainly suggests a strong influence from the Colorado Desert region.

In Los Angeles, Orange, and western Riverside counties, similar changes (introduction of cremation, pottery, and small triangular arrow points) are thought to be the result of a Takic migration to the coast from inland desert regions. This Takic or Numic Tradition was formerly referred to as the "Shoshonean wedge" or "Shoshonean intrusion" (Warren

1968). This terminology, used originally to describe a Uto-Aztecan language group, is generally no longer used to avoid confusion with ethnohistoric and modern Shoshonean groups who spoke Numic languages (Heizer 1978; Shipley 1978). Modern Gabrielino/Tongva, Juaneño, and Luiseño in this region are considered the descendants of the prehistoric Uto-Aztecan, Takic-speaking populations that settled along the California coast during this period or perhaps somewhat earlier.

Historical Overview

Spanish Period (1769-1822)

Spanish explorers made sailing expeditions along the coast of southern California between the mid-1500s and mid-1700s. In search of the legendary Northwest Passage, Juan Rodríquez Cabrílllo stopped in 1542 at present-day San Diego Bay. With his crew, Cabrílllo explored the shorelines of present Catalina Island as well as San Pedro and Santa Monica Bays. Much of the present California and Oregon coastline was mapped and recorded in the next half-century by Spanish naval officer Sebastián Vizcaíno. Vizcaíno's crew also landed on Santa Catalina Island and at San Pedro and Santa Monica Bays, giving each location its long-standing name. The Spanish crown laid claim to Alta California based on the surveys conducted by Cabrílllo and Vizcaíno (Cleland 2005; Gumprecht 2001).

More than 200 years passed before Spain began the colonization and inland exploration of Alta California. The 1769 overland expedition by Captain Gaspar de Portolá marks the beginning of California's Historic period, occurring just after the King of Spain installed the Franciscan Order to direct religious and colonization matters in assigned territories of the Americas. With a band of 64 soldiers, missionaries, Baja (lower) California Native Americans, and Mexican civilians, Portolá established the Presidio of San Diego, a fortified military outpost, as the first Spanish settlement in Alta California. In July of 1769, while Portolá was exploring southern California, Franciscan Fr. Junípero Serra founded Mission San Diego de Alcalá at Presidio Hill, the first of the 21 missions that would be established in Alta California by the Spanish and the Franciscan Order between 1769 and 1823, including Mission San Fernando Rey de España (Cleland 2005; Gumprecht 2001; Jorgensen 1982; Kyle 2002; Roderick 2001).

The Portolá expedition first reached the present-day boundaries of Los Angeles in August 1769, thereby becoming the first Europeans to visit the area. Father Crespi named "the campsite by the river Nuestra Señora la Reina de los Angeles de la Porciúncula" or "Our Lady the Queen of the Angeles of the Porciúncula." Two years later, Friar Junípero Serra returned to the valley to establish a Catholic mission, the Mission San Gabriel Arcángel, on September 8, 1771 (Gumprecht 2001; Jorgensen 1982; Kyle 2002).

The expedition camped at a watering place at the base of the San Gabriel Mountains in 1769 and the location was noted in Crespi's diary. The mission was founded in September 1797 by Father Fermín Lasuén and Fray Francisco Dumetz. The mission consisted of a church, fountains, cloisters and extensive agricultural grounds outside the area. The Spanish missionaries impressed the native Tongva, Tatavium, and Chumash tribes into Christianity through baptism and service as neophytes. The land taken by the Spanish was not repatriated to these tribes (Cleland 2005; Roderick 2001).

Mexican Period (1822-1848)

A major emphasis during the Spanish Period in California was the construction of missions and associated ranchos and presidios to integrate the Native American population into Christianity and communal enterprise. Incentives were also provided to bring settlers to pueblos or towns, but just three pueblos were established during the Spanish Period, only two of which were successful and remain as California cities (San José and Los Angeles). Several factors kept growth within Alta California to a minimum, including the threat of foreign invasion, political dissatisfaction, and unrest among the indigenous population. After more than a decade of intermittent rebellion and warfare, New Spain (Mexico and the California territory) won independence from Spain in 1821. In 1822, the Mexican legislative body in California ended isolationist policies designed to protect the Spanish monopoly on trade, and decreed California ports open to foreign merchants (Cleland 2005; Dallas 1955).

Extensive land grants were established in the interior during the Mexican Period, in part to increase the population inland from the more settled coastal areas where the Spanish had first concentrated their colonization efforts. In 1846, Mission San Fernando lands were issued as a land grant by then governor Pío Pico to Eulogio de Celis, and renamed simply Ex-Mission San Fernando (Figure 4). The new rancho lands were bound by Rancho San Francisco to the north, to the east by Rancho Tujunga, to the west by Rancho Simí, and on the south by the Santa Monica Mountains (Cleland 2005).

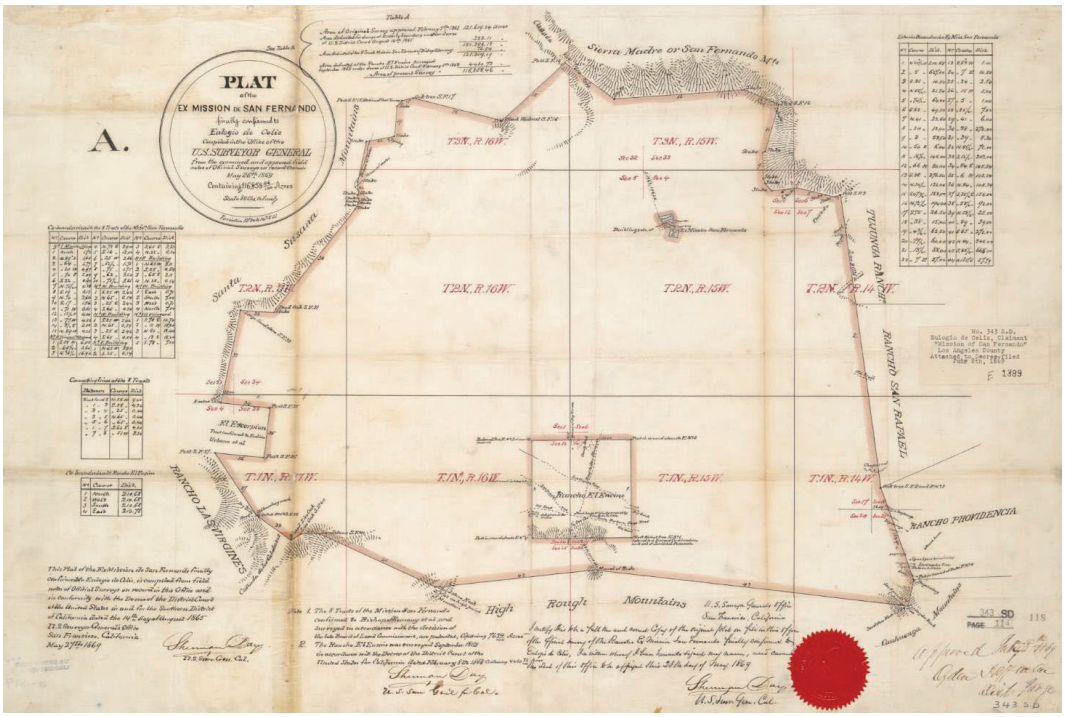

Figure 4. Plat of the Ex Mission de San Fernando [Calif.] : finally confirmed to Eulogio de Celis; U.S. Surveyor General, May 26, 1869 (UC Bancroft Library Land Case E-1389)

American Period (1848-Present)

War in 1846 between Mexico and the United States precipitated the Battle of Chino, a clash between resident Californios and Americans in the San Bernardino area. The Mexican- American War ended with the Treaty of Guadalupe Hidalgo in 1848, ushering California into its American Period. California officially became a state with the Compromise of 1850, which also designated Utah and New Mexico (with present-day Arizona) as U.S. Territories. Horticulture and livestock, based primarily on cattle as the currency and staple of the rancho system, continued to dominate the southern California economy through 1850s. The Gold Rush began in 1848, and with the influx of people seeking gold, cattle were no longer desired mainly for their hides but also as a source of meat and other goods (Cleland 2005).

De Celis retained his rancho after the war until his death in 1874. After de Celis' death, his family sold the rancho to California State Senator Charles Maclay and business partners George K. and Benjamin F. Porter. The Porters claimed the land west of present-day Sepulveda Boulevard. Isaac Van Nuys and J.B. Lankershim acquired the southern half of the valley south of Roscoe Boulevard. Maclay's rancho extended from present day Sepulveda Boulevard east to the San Gabriel foothills. The Porter brothers' ranch would be one of the last sections of the San Fernando Valley to be developed. In 1888, Benjamin Porter sold a portion of the property near the Santa Susana Pass to the Porter Land and Water Company, which laid out the town of Chatsworth Park (Dumke 1944; Kyle 2002; Roderick 2001).

Historic Context of the Town of Chatsworth

The original 1888 town site laid out by the George R. Crow of the Porter Land & Water Company planned Chatsworth Park as a farming community with land divided into 10-acre plots along three major streets: Ben Porter Avenue, Devonshire Avenue, and Fernando Avenue. In 1893, another town plat was filed for Chatsworth Park that added a railroad station, Main Street, and commercial corridor. Chatsworth Park retained an agricultural identity, and was along a major stage route connecting Los Angeles and Santa Barbara through Santa Susana Pass. In 1893, Southern Pacific Railroad built a depot and rail line to the town, offering a way to transport crops, mainly wheat, to the greater Los Angeles area (Height 1953; Roderick 2001; Wanamaker 2011; Watson 1991).

Los Angeles voters approved $22 million for the Los Angeles Aqueduct project in 1905 and construction on the aqueduct began in 1908 and completed in 1913. The aqueduct, which would bring water from Owens Valley to the City of Los Angeles, brought intensive land speculation and settlement to the San Fernando Valley. However, to take advantage of the City of Los Angeles' new water source, surrounding communities had to agree to be annexed to the City of Los Angeles. Formerly independent towns such as of Pacoima, Roscoe, and Lankershim voted for annexation in the years immediately after the aqueduct was completed. With the new source of water, San Fernando Valley farmers exchanged dry farming for irrigated crops and orchards. Agriculture expanded throughout the San Fernando Valley and specific towns became associated with certain crop production. Citrus and nut tree orchards became common in the northern portion pf San Fernando Valley including at Chatsworth Park (Height 1953; Preston 1965; Roderick 2001; Wanamaker 2011; Watson 1991).

In 1918, the Chatsworth Reservoir was completed, intended as the nineteenth and last in a chain of reservoirs of the Los Angeles Aqueduct System (Figure 5). The Chatsworth High Line aqueduct was the conduit that ran along the northern edge of the valley, connecting the San Fernando Reservoir to Chatsworth Reservoir. It replaced a series of temporary, open-air "ditches" installed in preparation of the permanent aqueduct system, increasing arable land in San Fernando Valley from 3,000 acres in 1914 to 30,000 acres in 1917 (D.H. Anderson Publishing Company 1916; Geiger 1918).

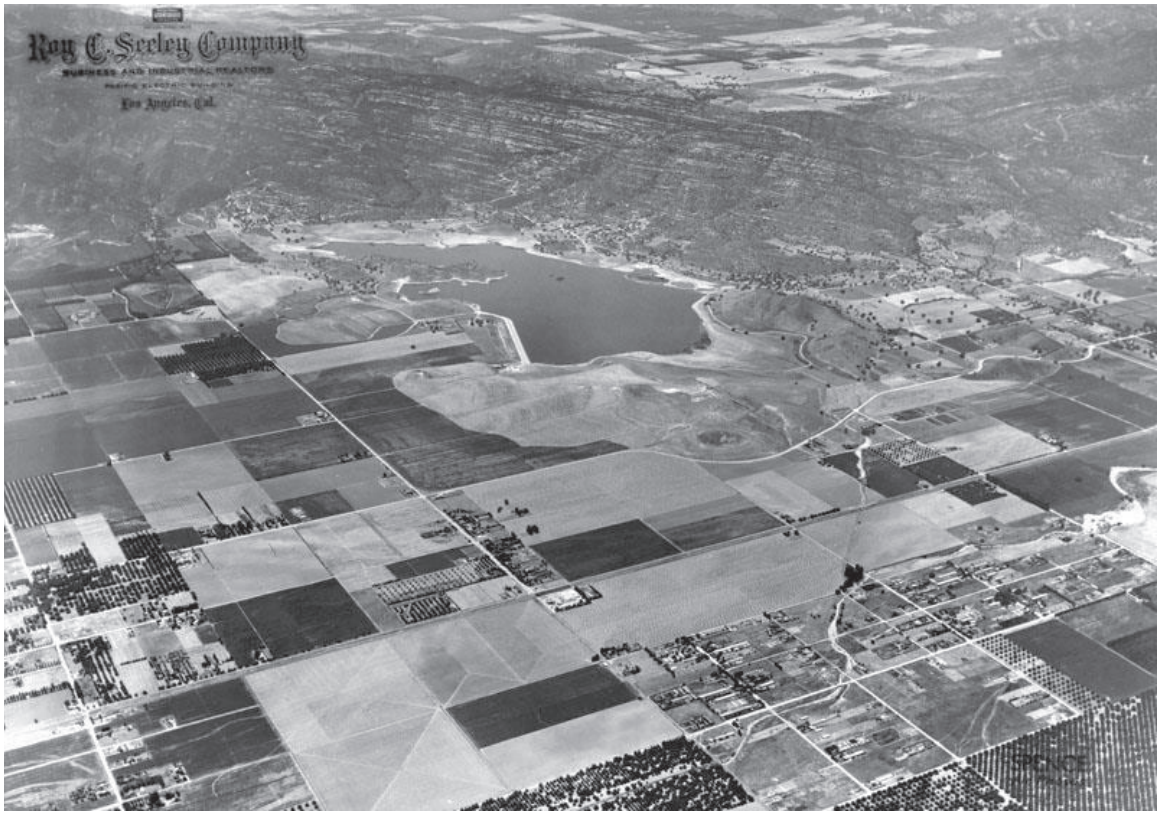

Figure 5. Aerial View across Chatsworth Reservoir to Simi Valley, looking northwest. Roy C Seeley Company photography, no date (Los Angeles Public Library LAPL 00032971)

In 1920, Chatsworth was annexed to the City of Los Angeles. The same year, the San Fernando Valley population was estimated at 20,000 people. By 1930, the valley's population had doubled to just over 51,000. The agricultural economy of Chatsworth remained stable through the Great Depression. By 1940, the San Fernando Valley population was 155,443. Despite the growing residential population, small-scale farms and orchards still dominated land use in the San Fernando Valley through World War II (Roderick 2001; Wanamaker 2011).

World War II brought increased urbanization as military operations near Los Angeles brought in hundreds of thousands of soldiers and their families. After the war, both employment opportunities and affordable real estate kept families in the area. Suburban sprawl from Los Angeles reached the San Fernando Valley, and brought another 250,000 people to the valley, raising its 1950 population to just over 400,000. Dense housing developments and residential areas constricted

formerly agricultural areas, all but pushing them into the surrounding foothills and margins of the Valley for the rest of the century. In 1954, at the end of De Soto Avenue at Oat Mountain, the U.S. Defense Department developed a U.S. Army base and launch site the Nike Hercules missiles, called the Nike Missile Base LA-88 (Figure 6). The military operation there further fueled the influx of residents to the Chatsworth Area. By the end of the 1950s, nine of the ten largest manufacturers in the Valley served the Defense Department. Lockheed, Rocketdyne, Litton Systems, Ramo-Woolridge, RCA, Marquardt, and Radioplane each employed over a thousand employees (Preston 1965; Roderick 2001; Watson 1991).

As automobiles and freeways permeated the culture of the country and the state of California, so too did they have impact in Chatsworth. In 1960, the Ventura Freeway finally opened, and between 1972 and 1980, SR 118 was completed in the northern portion of Chatsworth, immediately north of the project site. These highways brought an emphasis on automobile travel and allowed residents ease of access for commuting around the greater Los Angeles area and the Santa Barbara area (Roderick 2001).

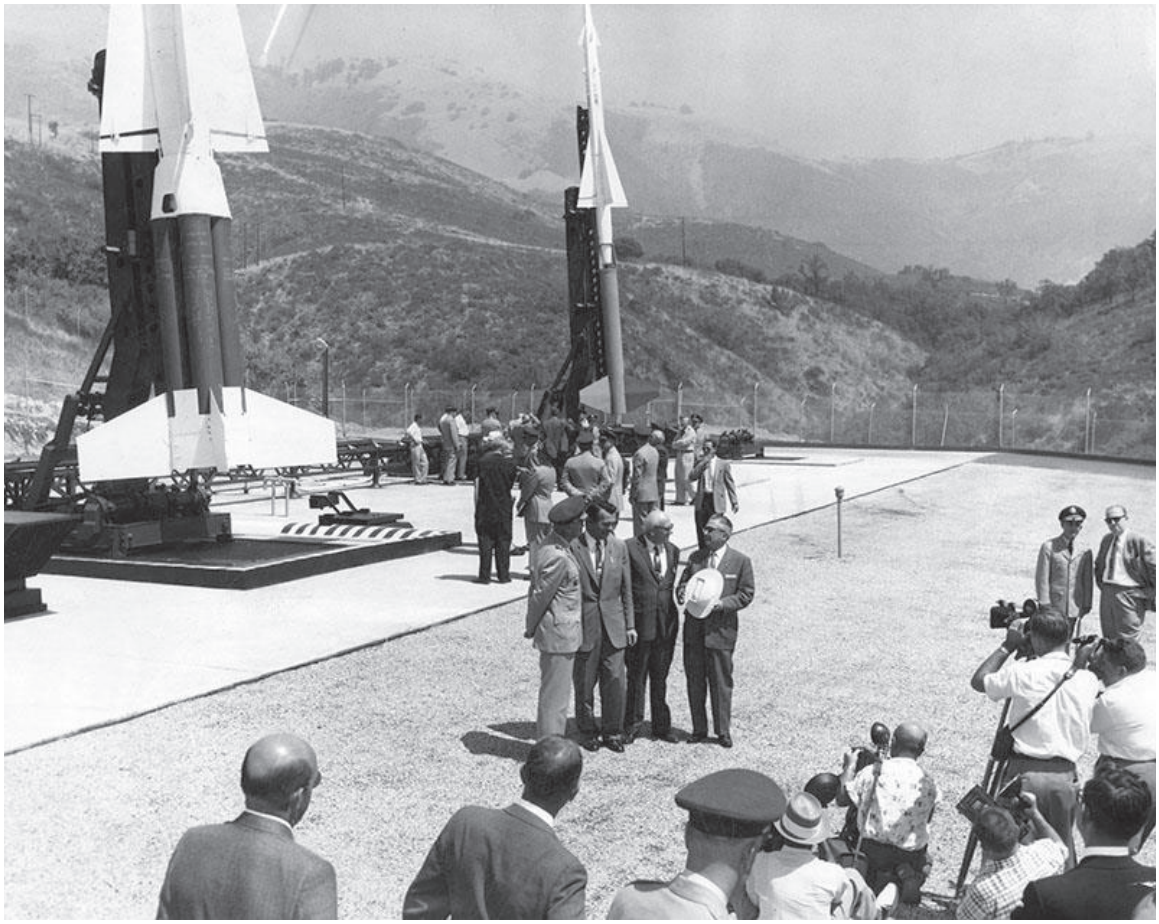

Figure 6. Oat Mountain Nike-Hercules Base in Chatsworth California., looking north, 1958 (Los Angeles Public Library LAPL00114029)

History of the De Soto Tanks Reservoir

Originally planned as the Chatsworth High Line Reservoir, the De Soto Reservoir went into service in 1941 (LADWP 1942; Laval 1938, 1944; Soifer 2018). It is located along the Chatsworth High Line, which was a pipeline originally conceived to connect the San Fernando Reservoir to the Chatsworth Reservoir (not to be confused with the Chatsworth High-Line Reservoir). The San Fernando Reservoir went into service in 1918 and consisted of two reservoirs: San Fernando Reservoir No. 1 (upper) completed in 1913 and San Fernando Reservoir No. 2 (still under construction 1916). The Chatsworth Reservoir site was scouted in 1911 and 1913, and construction began after securing the title to the property from Benjamin. Porter in 1917. The Chatsworth Reservoir was completed in 1918, and filled in 1919. The Chatsworth High Line was built concurrently with the reservoir projects, and was built to replace a series of already existing irrigation ditches in the area to formally connect the two reservoirs. The High Line was constructed in 1916, and completed in 1918 before the Chatsworth Reservoir was filled (D.H. Anderson Publishing Company 1916; LAT 1916; Robertson et. al. 1918; SWBC 1918; WPA 2018).

In 1930-1931 the Chatsworth Reservoir was drained and built up to hold a greater water capacity, as the population of Chatsworth increased. As the decade continued, increased water demands on the Chatsworth Reservoir and High Line meant that the water served as emergency residential and domestic drinking water, rather than its originally intended agricultural role. Also in 1931, the lands for a new LADWP reservoir called the Chatsworth High Line Reservoir was purchased and plans were drawn up for the new reservoir. The Chatsworth High Line Reservoir, a different, smaller water feature than the Chatsworth Reservoir, was intended as an earthen reservoir at the mouth of Brown's Canyon. The State of California voided plans for this reservoir in 1933 due to a change in LADWP's dam construction program, and the LADWP's inability to start the reservoir construction in the permitted amount of time (LADWP 1931, 1933; WPA 2018).

De Soto Reservoir was redesigned, built, and placed into service in 1941. It was built by contractors Schroeder & Company, Inc. of Roscoe, California. The site was an open-air, concrete lined tank on a small parcel in the foothills of the Santa Susana Mountains. Construction of the De Soto Reservoir pioneered a new method for compacting the reservoir embankment (Figures 7 and 8) (LADWP 1942):

> The side slopes and the bottom were paved with 4 inches of asphaltic concrete placed in two 2 inch layers, each layer being rolled by a light hot roller followed by a heavy cold roller weighing 2,000 pounds per linear foot. The hot roller smoothed and conditioned the surface so that the heavy roller could be operated without picking up or gouging into the plastic material. The rollers were moved up and down the slope by means of hoists mounted on small tractors. The inside embankment slopes are 1-1/2 to 1 and the height is 22 feet. A cement coating was brushed on the asphaltic concrete surface in order to reduce soil stress and to provide a smoother surface for better cleaning of the reservoir when empty.

Figure 7. Photo demonstrating roller compaction technique at De Soto Reservoir, 1942. (LADWP Record Center)

Figure 8. Photo demonstrating the roller compaction technique pioneered at the De Soto Reservoir, 1942, looking east. (LAPL 1004960, also held by LADWP Record Center)

Water from the Chatsworth High Line filled De Soto Reservoir. The reservoir handled terminal water storage for the High Line. From the De Soto Reservoir, water switched from a pressure system to a gravity system and discharged into a separate domestic and irrigation supply water mains: the Chatsworth High Line Extension (which replaced the former High Line aqueduct to the Chatsworth Reservoir), and the planned projects for Granada and De Soto Trunk Lines (CDWR 1964; FAS 1944; Laval 1938; LADWP 1941, 1942; Soifer 2018; NETR 2018a).

As the population of the San Fernando Valley swelled in the post-World War II years, the demand for drinking water increased in the valley, turning previously agricultural water resources into drinking water for new residents. In 1954, LADWP proposed the first portion of the Granada Trunk Line, which would connect the Upper San Fernando Reservoir to the De Soto Reservoir. The new trunk line ran beside the existing Chatsworth High Line, and increased the total amount of water the Department of Water and Power was able to provide. In 1958, the second portion of the Granada Trunk Line, which extended from De Soto Reservoir to Roscoe Blvd near Cohasset, was approved and constructed between 1958 and 1959 (Valley News 1954, 1958).

In 1971, the Sylmar Earthquake caused widespread damage to the San Fernando Valley, including its water infrastructure. The Chatsworth High Line, Maclay High Line, and Chatsworth Reservoir were temporarily disabled due to the earthquake damage and the Chatsworth Reservoir was officially retired as a result of sustained damage and cost of repair. The reservoir was converted into a natural area park in the earthquake aftermath. Despite this, the De Soto Reservoir and trunk lines remained in service as emergency water supply, for the area, continuing to service the region (LAT 1971; WPA 2018)

Alterations

There have been several recorded alterations to the De Soto Reservoir. Between its construction in 1941 and 1945, a caretaker's house, patio, garage, toolshed, and water tank were constructed east of the De Soto Reservoir (Figure 9). In 1945, a cesspool and water main were added to the site. In 1948, the reservoir was cleaned and drained, revealing damage and soil settlement under the concrete at the west end of the reservoir. In 1954, the Granada Trunk Line replaced the Chatsworth High Line as the water source from Upper San Fernando Reservoir to De Soto Reservoir. In 1958, a second portion of the Granada Trunk Line, from De Soto Reservoir to Roscoe Boulevard was initiated. In 1959, LADWP sold a portion of the De Soto Reservoir lot as an easement for the Southern California Edison. In 1961, LADWP briefly attempted to acquire adjacent properties to the De Soto Reservoir, for a project that proposed to enlarge the existing reservoir, but this was unsuccessful and concluded in 1962 (Green 1948; Peterson 1959; Porter 1945; Socha 1962; Valley News 1954, 1958).

In 1971, a chlorination station was added to the property. It was also around this time that the larger 1918 Chatsworth Reservoir was decommissioned due to earthquake damage and repurposed as a natural park. Sometime between 1982 and 1994, the one outbuilding was removed to its foundations. In 1988, due to drought and water contamination concerns, the De Soto Reservoir was covered with an aluminum cover, protecting to water from evaporation and contamination from the recently completed Ventura Highway/Ronald Reagan Freeway (SR 118). The success of covering the De Soto Reservoir spurred other reservoir coverings in the LADWP-managed reservoirs. In 2016, the Caretaker's House and outbuilding were demolished (AMI 1982; FAS 1965; LAT 1971, 1988; Teledyne 1971; USGS 1994; Google Earth 2018).

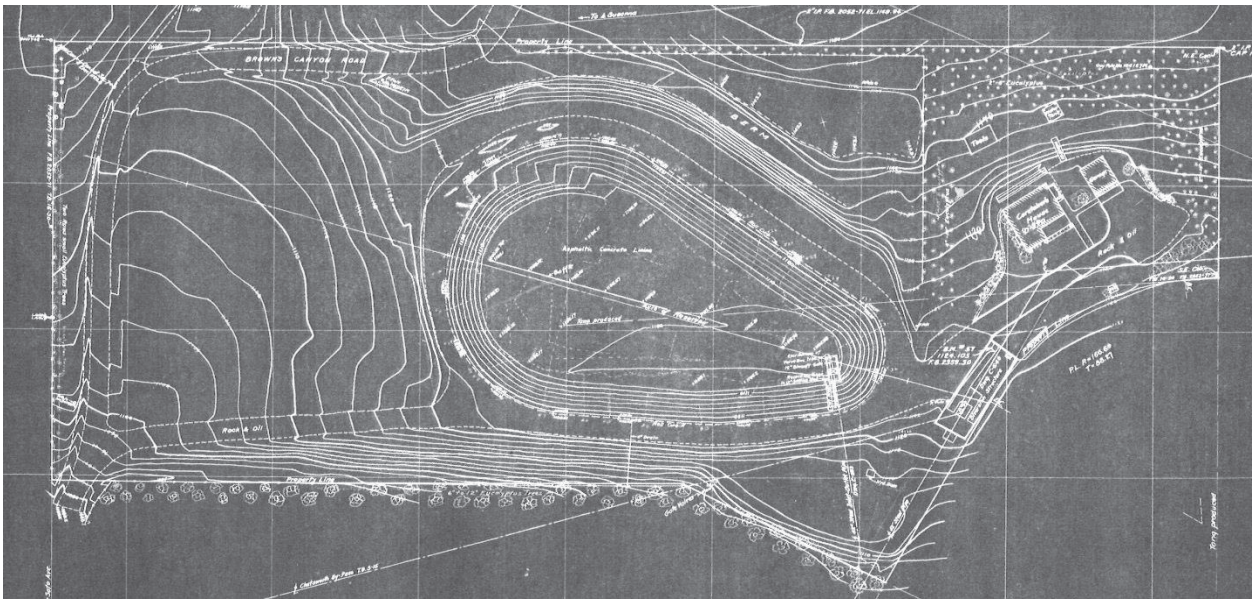

Figure 9. Plans showing caretaker's house and outbuildings, December 1941. (LADWP Records Center)

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4 BACKGROUND RESEARCH

4.1 CHRIS Records Search

As part of the cultural resources study prepared for the project, Dudek conducted a California Historical Resources Information System (CHRIS) records search at the South Central Coastal Information Center (SCCIC) on June 29, 2017, or a 0.5-mile radius around the proposed project APE. This search included their collections of mapped prehistoric, historic, and built environment resources, Department of Parks and Recreation Site Records, technical reports, and ethnographic references. The results of this record search are included in Appendix B (Confidential Record Search Appendix). Additional consulted sources included historical maps of the project area, the NRHP, the CRHR, the California Historic Property Data File, and the lists of California State Historical Landmarks, California Points of Historical Interest, and the Archaeological Determinations of Eligibility.

Previous Cultural Resources Studies

The SCCIC records indicate that 73 cultural resources investigations have been conducted within a half mile of the APE (Table 1). Of these, one previous studies overlap a portion of the indirect APE, four studies intersect the indirect APE, and one study is adjacent to the indirect APE. One study (LA-02366) overlaps the De Soto Tanks proposed project area.

Table 1. Previously Cultural Resources Investigations within 0.5 Mile of the APE

SCCIC Report Number	Title	Author	Year	Proximity to APE
26	Assessment of the Archaeological Resources and the Impact of Development of Highway 118 Areas to be used as Fill Sites in the San Fernando Valley	Major, Gary W.	1974	Outside
35	Assessment of the Archaeological Impact by the Development of Browns Creek, Unit 4 and Browns Debris Basin, City of Los Angeles and Unincorporated Territory of the County of Los Angeles, California	Gates, Gerald R.	1974	Adjacent
53	Archaeological Assessment of Tentative Tract No. 32472 for Tierra Engineering Co.	Major, Gary W.	1974	Outside
71	An Archaeological Evaluation of Proposed Changes in the Use of LAN-357	Leonard, Nelson N. III	1974	Outside
76	Evaluation of the Archaeological Resources and Potential Impact of the Proposed Modification of an Area Adjacent to Browns Canyon, Los Angeles County Into a Sanitary Landfill	Rosen, Martin D.	1975	Outside

Table 1. Previously Cultural Resources Investigations within 0.5 Mile of the APE

SCCIC Report Number	Title	Author	Year	Proximity to APE
81	Evaluation of the Archaeological Resources for the Area wide Facilities Plan for the Las Virgenes Municipal District, (Malibu Coast, Western Santa Monica Mountains, Southern Simi Hills), Los Angeles and Ventura Counties.	Rosen, Martin D.	1975	Outside
160	Phase 1 Cultural Resources Survey Fiber Optic Cable Project Burbank to Santa Barbara, California for US Sprint Communications Company	Dames and Moore	1988	Outside
304	Archaeological Assessment of a Proposed Development in Chatsworth, City of Los Angeles, California	Pence, Robert L.	1978	Outside
468	Archaeological Survey Report: A 17+/- Acre Parcel of Property Located Between the Simi Valley Freeway and Topanga Canyon Boulevard in Chatsworth, California	Murray, John R.	1978	Outside
592	Cultural Resource Reconnaissance and Assessment of a Lot in Chatsworth, Los Angeles County, California	McIntyre, Michael J.	1979	Outside
628	Cultural Resource Survey and Impact Assessment for a 4.81 Acre Parcel Located in the Northwestern Part of the San Fernando Valley, in the City and County of Los Angeles, California	Singer, Clay A.	1979	Outside
666	Cultural Resource Survey and Impact Assessment for Tentative Tract No. 38956, in the Community of Chatsworth, City and County of Los Angeles, California.	Singer, Clay A.	1979	Outside
838	An Archaeological Assessment of the Walker Cairn Site (CA-LAN-21), Chatsworth, California	Tartaglia, Louis J.	1980	Outside
1043	Assessment of the Archaeological Impact of Tentative Tract No. 31247	Toren, George A.	1977	Outside
1410	An Archaeological Resource Survey and Impact Assessment of a 4.83 Acre Parcel at 10815 Canoga Avenue in Chatsworth, City and County of Los Angeles (TT No. 43437)	Colby, Susan M.	1984	Outside
1448	Assessment of the Archaeological Resources Within Tentative Tract No. 4301, County of Los Angeles, California	Wawlsh, Michael R.	1984	Outside
1677	Cultural Resource Evaluation and Mitigation Alternatives for Archaeological Site CA-LAN-209	Parker, John	1987	Outside
1744	Archaeological Survey and Test Excavation in Unit 18 of the Porter Ranch, Los Angeles County, California	White, Robert and L. White	1988	Outside
1745	Archaeological Test Excavations at LAN-664, Located on the Porter Ranch, Los Angeles County, California	Van Horn, David M.	1987	Outside
1771	Draft Environmental Impact Report Porter Ranch Land Use/Transportation Specific Plan	ETI	1989	Outside
2010	Assessment of the Archaeological Impact of the Proposed Development of the 5 Acres of Tentative Tract #30350	Briuer, Frederick L.	1976	Outside

Table 1. Previously Cultural Resources Investigations within 0.5 Mile of the APE

SCCIC Report Number	Title	Author	Year	Proximity to APE
2034	Cultural Resources Reconnaissance of the Devil Canyon Project Area, 44 Acres in Chatsworth, Los Angeles County, California	Bissell, Ronald M. and Kenneth Becker	1990	Outside
2086	Summary and Assessment of Archaeological Resources on a 1300 Acre Portion of Porter Ranch Property in the Santa Susana Foothills, Los Angeles County	Brown, Robert S.	1989	Outside
2096	Report of Archaeological Reconnaissance Survey of a Nine Acre Parcel (a-1 Zone) 21521 Rinaldi Chatsworth, California	Salls, Roy A.	1990	Outside
2133	Two Rock Art Sites in the San Fernando Valley: VEN-149 and LAN-357	Sanburg, Delmer, Jr., Dana Bleitz Sanburg, Frank Bleitz, and Edith Bleitz	1978	Outside
2204	Cultural Resources Reconnaissance of the Continental Community Project Area, 55 Acres in Chatsworth, Los Angeles County, California	Evans, Stuart A. and Ronald M. Bissell	1990	Outside
2250	Draft Environmental Impact Report: Chatsworth Porter Ranch District Plan Re-study	EIP Associates, Inc.	1991	Outside
2366	Draft Master Environmental Impact Report	Wessel, Richard L.	1976	Overlaps
2390	Astronomy, Myth, and Ritual in the West San Fernando Valley	Romani, John F., Dan Larson, Gwen Romani, and Arlene Benson	1988	Outside
2623	Pictographs of the Santa Monica Mountains Status Report as of May 15, 1977 (same As V-1134)	Lowe, P. J.	1977	Outside
2892	Phase I Archaeological Survey Report Pacific Pipeline Project Santa Barbara Coastal Re-routes Ethnohistoric Village Placement Locations	Stone, David and Robert Sheets	1993	Outside
2950	Consolidated Report: Cultural Resource Studies for the Proposed Pacific Pipeline Project	Peak & Associates, Inc.	1992	Outside
3131	Archaeological Assessment of Evans Ranch	Toren, George A. and Frederick L. Bruier	1976	Outside
3189	Assessment of the Archaeological Impact by the Development of Property Tracts Number 32630 and 32599	Romani, John F.	1976	Outside

Table 1. Previously Cultural Resources Investigations within 0.5 Mile of the APE

SCCIC Report Number	Title	Author	Year	Proximity to APE
3301	Archaeological Assessment Santa Susana Pass Road Realignment California West Development Chatsworth, California	Scientific Resource Surveys, Inc.	1989	Outside
3405	Field Archaeology 1971 CA-LAN-357	Otte, Jim	1971	Outside
3406	LAN-357; Chatsworth-Walker Site	Gilmore, Jack	1972	Outside
3487	Assessment of the Impact Upon Archaeological Resources by the Development of Units 5,6,10,11,12,13,15,16, and 17 of Porter Ranch	Wessel, Richard L.	1976	Outside
3499	Metropolitan Water District West Valley Project Cultural Resources Technical Report	Eisentraut, Phyllisa	1994	Intersects
3639	Santa Monica Mountains State Park (undeveloped)	King, Thomas F.	1970	Outside
3847	Shamanism and Rock Art in Far Western North America	Whitley, David S.	1992	Outside
3974	Archaeological Assessment for Pacific Bell Mobile Services Telecommunications Facility LA 172-01, 11200 De Soto Avenue, Chatsworth, City and County of Los Angeles, California	McLean, Deborah K.	1998	Intersects
4124	Semester Report for Anthropology 7	Barajas, Luisa	1972	Outside
4137	Five Prehistoric Archeological Sites in Los Angeles County, California	Walker, Edwin Francis	1998	Outside
5530	Cultural Resource Assessment for AT&T Wireless Services Facility Number C946.1, County of Los Angeles, CA	Duke, Curt	2000	Outside
5856	Phase I Archaeological Survey of the Chatsworth Ridge Estates Study Area, Los Angeles County, California	W&S Consultants	2000	Outside
6148	Cultural Resources Monitoring and Contractor Cultural Resources Education for Sub Area G-1 (Tract Numbers 50511-01, 50511-02 and 50512-03) Within Unit 15 of the Porter Ranch Development Project, Los Angeles, California	Sikes, Nancy E.	2002	Outside
6599	Historic Resource Evaluation Report Mason Avenue At-grade Crossing and Safety Improvements Project Los Angeles City, California	Foster, John M.	2002	Outside
6914	Cultural Resources Reconnaissance and Monitoring for Tentative Tract 53783 and Road Cuts 21, 25, and 26 within the Porter Ranch Development Project, Los Angeles, California	Sikes, Nancy E.	2003	Outside
7837	Rock Art of the Santa Monica and the Santa Susana Mountains	Knight, Albert	2001	Outside
8255	Cultural Resources Final Report of Monitoring and Findings for the Qwest Network Construction Project State of California: Volumes I and II	Arrington, Cindy and Nancy Sikes	2006	Outside

Table 1. Previously Cultural Resources Investigations within 0.5 Mile of the APE

SCCIC Report Number	Title	Author	Year	Proximity to APE
8283	Cultural Resources Record Search and Site Visit Results for Royal Street Communications, LLC Candidate LA0021A (Holy Shepard Lutheran Church), 10347 Mason Avenue, Chatsworth, Los Angeles County, California	Bonner, Wayne H.	2007	Outside
8423	Cultural Resources Monitoring for Tentative Tract 50507 and 50510, Parcels within the Porter Ranch Development Project, Chatsworth, Los Angeles County, California	Underbrink, Susan	2007	Outside
8803	Cultural Resources Records Search and Site Visit Results for Cingular Wireless Candidate NI-0177-03 (McDonald's), 20932 Devonshire Street, Chatsworth, Los Angeles County, California	Bonner, Wayne H.	2006	Outside
9061	Cultural Resources Monitoring for Tentative Tract 54153, a Parcel within the Porter Ranch Development Project, Chatsworth, Los Angeles, California	Maxon, Patrick and Jessica DeBusk	2005	Outside
9064	Browns Canyon Rule 20B Overhead Removal Project, Chatsworth-Macneil-Newhall-San Fernando 66kV Line, Los Angeles County	Schmidt, June A.	2005	Outside
9065	DWO 6135-7981, A.I. No. 5-7941: Iverson 2.4 kV Idle Facility Removal, Chatsworth Area, Los Angeles County	Schmidt, James J.	2005	Outside
9071	Field Inventory Report: Assessment for Browns Canyon (CA-8102A) Wireless Facility, 11056 N De Soto Avenue, Chatsworth, Los Angeles County, California	Billat, Scott	2005	Intersects
9297	Re: DWO 6035-4800; A.I. No. A-4809; 4kV, Deteriorated Pole Replacement Project, Los Angeles County	Williams, Audry	2008	Outside
9390	Re: DWO 6335-6783; A.I. No. 6-6746: Big Rock 16 kV: Deer Lake Pole Relocation Project, Chatsworth Area, Los Angeles County	Schmidt, James J.	2006	Outside
9869	Cultural Resources Records Search and Site Visit Results for T-Mobile Candidate SV11272D (Golden Oaks), Northridge, Los Angeles County, California	Wayne Bonner	2008	Outside
10637	Rock Art of the Santa Monica Mountains and the Simi Hills	Knight, Albert	1999	Outside
10707	Cultural Resource Records Search and Site Visit Results for T-Mobile USA Candidate SV11941-D (Porter Park and Ride), 11245 North Winnetka Avenue, Los Angeles, California	Bonner, Wayne	2010	Outside
10708	Cultural Resource Records Search and Site Visit Results for T-Mobile USA Candidate SV12271-A (Mason Colo), 10347 Mason Avenue, Chatsworth, Los Angeles County, California	Bonner, Wayne	2010	Outside
10798	A Phase I Archaeological Survey for the Proposed Improvements to 10860 Topanga Canyon Road, City of Chatsworth, Los Angeles County, California	Wlodarski, Rob	2011	Outside

Table 1. Previously Cultural Resources Investigations within 0.5 Mile of the APE

SCCIC Report Number	Title	Author	Year	Proximity to APE
11149	California State University, Northridge, Astronomy and Social Integration: An Examination of Astronomy in a Hunter and Gatherer Society. A thesis submitted in partial satisfaction of the requirements for the degree of Masters of Arts in Anthropology.	Romani, John	1981	Outside
11532	VZW Parker 4239, 11056 N De Soto Avenue Chatsworth, CA	Martorana, Dean	2011	Intersects
11729	Cultural Resources Records Search and Site Visit, LA0612-118FWY/Rinaldi, 11245 Winnetka Avenue, Chatsworth, CA 91311	Johnson, Brent	2011	Outside
12064	Chatsworth Early Residents, Julius Fried	Vincent, Ann	2012	Outside
12065	Chatsworth Past and Present	Vincent, Ray and Ann Vincent	2012	Outside
12386	Cultural Resources Records Search and Site Visit Results for AT&T Mobility, LLC Candidate CLV0017 (SBA Faux Water Tower), 20946 Devonshire Street, Chatsworth, Los Angeles County, California	Bonner, Wayne	2013	Outside
12661	Cultural Resource Assessment Class III Inventory, Verizon Wireless Services Andora Facility Community of Chatsworth, City of Los Angeles, Los Angeles County, California	Fulton, Phil	2014	Outside

LA-02366

One report overlaps the project area. In 1976, Richard L. Wessel prepared a Master Environmental Impact Report for 1,200 acres of undeveloped land within Porter Ranch, located west of Tampa Avenue and north of Rinaldi St. Wessel conducted an archival research, record search, and an archaeological field survey. Wessel concluded that the development would have a direct impact on three archaeological resources within the area and an indirect impact on nearby archaeological resources.

Previously Recorded Cultural Resources

The records search found that 30 previously recorded cultural resources were located within 0.5-mile (1,600 meters) of the project area. None of these resources overlap the project area. Eight of these sites are historic archaeological sites, 21 sites are prehistoric archaeological sites, and one site is a historic built environment resource. None of the sites have been evaluated for the NRHP, and their eligibility status is unknown. Details pertaining to these resources are listed below in Table 2.

Table 2. Previously Recorded Cultural Resources within 0.5 Mile of the APE

Primary Number (P-19-)	Trinomial (CA-LA-)	Period	NRHP/CRHR Status	Recorded By/Year	Description
21	21	Prehistoric	Unknown	Walker, E.F. 1951	Rock cairns and subsurface deposit
89	89	Prehistoric	Unknown	Chartkoff, K. 1966	Rock shelters and dense scatters of groundstone tools, lithic tools, and lithic debitage
93	93	Prehistoric	Unknown	Singer, C. 1966	Rock shelters (n=2); one with possible midden deposit
209	209	Prehistoric	Unknown	Becker, K. 1990; Hector, S. 1977	Rock shelters and rock art of varying kind; bedrock milling; surface artifacts; and possible midden deposit
357	357	Prehistoric	Unknown	Salls, R. and D. Bleitz, 1990; Singer, C. and J. West 1969	Rock shelters and rock art of varying kind; bedrock milling; surface artifacts; dense midden deposit; cremation remains
649	649	Prehistoric	Unknown	Whitely, D. 2000; Becker, K. 1990; Gates, G. and G. Toren 1974	Scatter of tools and lithic debitage
661	661	Prehistoric	Unknown	Sikes, N. 2003; Toren, A. 1976	Originally recorded as an earth; site not relocated during 2003 survey
664	664	Prehistoric	Unknown	Sikes, N. 2002; Wessel, R. 1976	Scatter of groundstone tools, lithic tools, and lithic debitage over two loci; site destroyed by development as of 2002
668	668	Prehistoric	Unknown	Toren, A. and J. Kleeb 1976	Burial; removed during of sewer line
901	901	Prehistoric	Unknown	Edberg, B. 1978	Rock art
995	995	Prehistoric	Unknown	Van Horn 1979	Rock shelter with lithic scatter
996	996	Prehistoric	Unknown	Van Horn 1979	Rock shelter with lithic scatter
997	997	Prehistoric	Unknown	Van Horn 1979	Rock shelter with lithic scatter
998	998	Prehistoric	Unknown	Van Horn 1979	Lithic scatters (n=2)
1620	1620	Prehistoric	Unknown	Knight, A. 1989	Scatter of groundstone tools, a stone bowl fragment, and lithic tools
1740	1740	Historic Built Environment	Unknown	Becker, K. 1990	Bridge crossing Devil Canyon
1741	1741	Historic	Unknown	Dice, M. 2014; Whitley, D. 2000; Becker, K 1990	Remnants of a 1920s residential property

Table 2. Previously Recorded Cultural Resources within 0.5 Mile of the APE

Primary Number (P-19-)	Trinomial (CA-LA-)	Period	NRHP/CRHR Status	Recorded By/Year	Description
1742	1741	Historic	Unknown	Whitley, D. 2000; Becker, K 1990	Remnants of a 1920s residential property
1743	1743	Prehistoric	Unknown	Whitley, D. 2000; Becker, K 1990	Sparse scatter of lithic debitage
1744	1744	Prehistoric	Unknown	Whitley, D. 2000; Becker, K 1990	Sparse scatter of lithic tools
1745	1745	Prehistoric	Unknown	Whitley, D. 2000; Becker, K 1990	Sparse scatter of groundstone and lithic tools and lithic debitage
2826	2826	Prehistoric	Unknown	Simon, J. 2000	Quarry and lithic scatter
2827	2827	Prehistoric	Unknown	Simon, J. 2000	Quarry and lithic scatter
3792	3792	Prehistoric	Unknown	Schmidt, J. and J. Schmidt 2006	Quarry and lithic scatter
4425	—	Historic	Unknown	Dice, M. 2014	Remnants of a 1940s residential property
4426	—	Historic	Unknown	Dice, M. 2014	Remnants of a 1920s residential property
150430	—	Historic	Unknown	Edberg, B. 1978	Remnants of an early 1900s residential property
150431	—	Historic	Unknown	Edberg, B. 1978	Remnants of an early 1900s residential property
150432	—	Historic	Unknown	Edberg, B. 1978	Remnants of an early 1900s residential property
150433	—	Historic	Unknown	Edberg, B. 1978	Remnants of an early 1900s residential property

The Chatsworth Momonga/Mission Trail

Although not identified as part of the original CHRIS records search, the Chatsworth Momonga/Mission Trail is a locally designated historical resource that traverses the northern portion of the project area. The Trail begins at the intersection of De Soto Avenue and Rinaldi Street and ends at Limekiln Canyon Trail, 250 feet west of Tampa Avenue. It passes through 23 parcels of mostly vacant land. The trail is on a flat, even grade with a slight incline at the beginning of the trail and a slight decline at the end. On November 15, 2018, the trail was officially designated as a City of Los Angeles Historic-Cultural Monument (HCM) under City Criteria 1, based on the following summarized statement of significance:

> The Chatsworth Momonga/Mission Trail "reflects the broad cultural, economic, or social history of the nation, state, or community" for its pre-Spanish settlement use as a route between the Native

> American villages of Achoicominga and Momonga, and for its association with the historic network of trails that connected the San Fernando and Ventura Missions during California's Mission Period (1769-1833).

Relative to the project APE, the Trail begins just south of the APE at the northeast corner of Rinaldi Street and De Soto Avenue, defined by a simple metal pipe handrail on either side of the trail. The trail runs along the north side of Rinaldi Street for approximately 300 feet before turning north behind Sierra Canyon High School. The trail then straddles the border between LADWP's property to the east and Sierra Canyon High School to the west. The trail intersects the project APE in an area north of the school parking lot and south of an unpaved parking lot located on APN 2701-003-907 before crossing east over Rinaldi Street out of the project APE.

4.3 Building Development Research

Los Angeles Public Library

Dudek visited Los Angeles Central Library on May 7, 2018. Dudek referenced the San Fernando Valley and Chatsworth history sections, and the USACE history sections for site information. In addition, Dudek staff reviewed a number of online resources available through the Los Angeles Public Library. These tools include accessing online Sanborn Maps, online LADWP photo collections, online historical photograph collections, and online historical newspaper collections, which were all used in the preparation of the historic context (Section 3).

LADWP Photograph Collection

Dudek contacted Angela Tatum, archivist for the Department of Water and Power Photograph Collection, hosted online by the Los Angeles Public Library on May 3, 2018. On May 17, 2018, Ms. Tatum responded that the LADWP Collection had no photographs or ephemera related to the De Soto Reservoir. Ms. Tatum forwarded the research request to Dr. Paul Soifer and to the LADWP Water Engineering Section.

LADWP Records Center

Dudek contacted Paul Soifer, PhD, the Consulting Historian for the Department of Water and Power, on May 3, 2018. On May 17, 2018, Dr. Soifer responded that mention of the De Soto Reservoir among annual reports or copies of employee magazine *Intake*. Dr. Soifer noted that mention of the De Soto Reservoir was surprisingly absent from annual reports, which cover yearly projects of all scales, as well as U.S. Army Corps of Engineers and Works Progress Administration (WPA) projects. On May 30, 2018, Ms. Kaiser met with Dr. Soifer at the Record Center and went through the LADWP Closed File collection, which had information including correspondence, photographs, and descriptions of alterations and change orders for the De Soto Reservoir.

Los Angeles Department of Buildings and Safety

Dudek used the Los Angeles Department of Building and Safety online building records search on May 3, 2018, to obtain building permits and establish a building chronology and alteration chronology that were used in the preparation of the historical context (Section 3) and significance evaluations (Section 6).

Aerial Photograph and Historic Map Review

A review of historic maps and aerial photographs was conducted as part of the archival research effort for the project. All Sanborn maps for the City of Los Angeles were reviewed, and the project area was not included on any of the maps. No Sanborn maps were available for the town of Chatsworth or Chatsworth Park, California.

Historic aerial photographs were reviewed for the project site from the following years: 1930, 1938, 1944, 1945, 1947, 1952, 1956, 1959, 1960, 1965, 1967, 1969, 1971, 1974, 1976, 1977, 1980, 1981, 1994, 2003, 2005, 2009, 2010, 2012, and 2014. Historical topographical maps were reviewed for the project site for the following years: 1903, 1908, 1916, 1924, 1928, 1929, 1930, 1932, 1939, 1941, 1943, 1948, 1953, 1958, 1964, 1965, 1967, 1970, 1980, 1984, 1992, and 2012 (AMI 1974, 1981; Aeroflex Corp 1959; FAS 1930, 1939, 1944, 1956, 1960, 1965; Laval 1938; NETR 2018a, 2018b; Pacific Air 1952; Teledyne 1971, 1976; USGS 1994).

Prior to its in-service date of 1941, the project area appears on three aerial photographs from 1930, 1938, and 1939. In all three of these photographs, the project area appears as undeveloped land, surrounded by agricultural fields to the south and east, a wide watercourse/streambed to the west, and the foothills of the Santa Susana Mountains to the north (FAS 1930, 1939; Laval 1938).

The De Soto Reservoir first appears in the 1944 aerial photograph. The reservoir is visibly filled, and a short ramp leading from the paved around the reservoir enters on the northwest side. Immediately east of the reservoir are three residential properties and their respective outbuildings. The western-most of these is the De Soto Reservoir caretaker's building, according to plan drawings for the area. Orchards and windbreaks on the west, south and east sides surround the De Soto Reservoir property. North of the De Soto Reservoir property are the as-yet undeveloped Santa Susana Foothills (FAS 1944).

The subject property and surrounding buildings and orchards appear relatively unchanged in the 1952, 1956, 1959, 1960, 1965, 1967, and 1969 aerial photographs. Small residential subdivisions begin to appear southwest of the subject property in 1965 along the Brown's Creek flood control channel. In the 1971 aerial photograph, the orchards south of the subject property (south of Tulsa Street) appear to have been demolished and in the next available photograph from 1974, we can see that they are replaced by single-family residential properties. The orchards south of the subject property and Tulsa Street/the northern boundary of the residential subdivision also disappear in the 1974 aerial. In the 1976 aerial, the western portion of State Route 118 (Ronald Reagan Freeway) appears west of the subject property and the boundaries of Chatsworth seem to have reached north uniformly to the foothills of the Santa Susana Mountains. At this time, there are only a few city blocks left that appear as agricultural fields, and the majority of the lands surrounding

the De Soto Reservoir appears to be residential (AMI 1974; Aeroflex Corp. 1959; FAS 1956, 1960, 1965; NETR 2018a, 2018b; Pacific Air 1952; Teledyne 1971, 1976).

In the 1981 aerial photograph, one of the three residential properties east of De Soto Reservoir was removed. In the 1982 aerial photograph, the area immediately southeast of the subject property appears to have had its vegetation cleared. Sometime between 1982 and the 1994 aerial photograph, the caretaker's house east of the reservoir is demolished, leaving only one large residential property east of the site, apparently unrelated to the function of the reservoir. Between the 2005 and 2009 aerial photographs, the last residential building east of the reservoir is removed, and Rinaldi Street, a six-lane, winding, diagonal street that cuts northeast from De Soto Avenue to State Route 118 appears, as does the Sierra Canyon School Upper Campus building. Two single-family residence lots also appear on the north side of Rinaldi Street.

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5 CULTURAL RESOURCES SURVEY

5.1 Methods

Dudek Archaeologist Elizabeth Denniston, MA, conducted the intensive-level pedestrian survey on March 14, 2018. The intensive-level survey methods consisted of a pedestrian survey the parcel (APN 2706007901), in 15 meter transects. Each transect was taken at ground level, on a wide, flat, grass area, obstructed only by the paved access road, and De Soto Reservoir structure. GPS points and photographs of the built features on the parcel and of the parcel itself were taken. Building dates along De Soto Avenue were checked using assessor data from the Zoning Information and Map Access System (ZIMAS); however, since all parcels were outside of the APE, they were not surveyed or evaluated for this project.

All fieldwork was documented using field notes, a digital camera, and iPad technology with close-scale field maps, and aerial photographs. Photographs were taken using a Canon Powershot digital camera with a 16MP resolution and 8× zoom feature. GPS points of landmarks and precise locations of new intake facilities were taken with an Apple iPad (Model No. MP242LL/A) equipped with georeferenced PDF maps of the project site. Accuracy of this device ranged between 3 and 10 meters. All field notes, photographs, and records related to the current study are on file at Dudek's Pasadena, California, office.

5.2 Survey Conditions

The general vicinity surrounding the project site is a mostly urbanized area bounded to the north by State Highway 118, to the west by De Soto Avenue, and the south and east by residential neighborhoods, developed between 1971 and 1977. The elevation of the project area slopes gently south Towards Rinaldi Street. Vegetation at the site is sparse and consists mostly of palms, eucalyptus trees, and sparse grasses. Ground visibility is high. There are four notable or structures or building remnants at the site that may be greater than 45 years in age: the meteorological station (ca. 1965-1971), the chlorination building (1971), a cement mortared well (1941), and a board-formed concrete stem wall building foundation, pierced for inlet and outlet pipes (1941) (Figures 10–15) (NETR 2018a, Teledyne Geotronics 1971).

5.3 Results

No surface evidence of archaeological resources were encountered during the survey. Six resources were observed during the survey: the De Soto Reservoir (1941); the chlorination building (1971); a river rock and cement mortared well (circa 1941); a meteorological station (no date) a concrete building foundation (circa 1941); and the beginning segment of the Chatsworth Momonga/Mission Trail (a City of Los Angeles HCM).

Figure 10. De Soto Reservoir (1941) looking north. March 14, 2018. (IMG1679)

Figure 11. De Soto Reservoir (1941) looking east. March 14, 2018. (IMG1702)

Figure 12. Board-formed concrete building foundation, looking southwest. March 14, 2018. (IMG1670)

Figure 13. Well features and chlorination outbuilding, looking west. March 14, 2018. (IMG1674)

Figure 14. Meteorological Station, looking southwest. March 14, 2018. (IMG1677)

Figure 15. Entrance to the Chatsworth Momonga/Mission Trail. October 11, 2018. (Commission Staff Report)

6 HISTORICAL SIGNIFICANCE EVALUATION

6.1 Resource Description

The following presents a description and evaluation of a segment of the De Soto Reservoir property (reservoir and associated structures) within the project APE. The complete set of State of California Department of Parks and Recreation 523 Forms (DPR Forms) is located in Appendix C (OHP 1995).

De Soto Reservoir (1941)

The De Soto Reservoir was constructed and went into service in 1941 and is approximately 45,000-square feet. The reservoir sits in a graded hillside at the northwest corner of De Soto Avenue and Rinaldi Street. Access to the reservoir is through a paved road that can be entered from De Soto Avenue and runs east through the graded area. The access road has a spur that turns south then east again and runs along the periphery of the pear-shaped De Soto Reservoir. At its maximum width the reservoir is approximately 194 feet (north/south) and approximately 317 feet long (east/west). The construction of the reservoir consists of an oval-shaped concrete base and a metal roof cap, which covers the top and the sides of the reservoir. The metal roof is white and characterized by a series of trapezoidal shaped ridges resembling a folded plate that run roughly north–south along the top and arranged vertically along the sides. There is a hexagonal metal fixture, likely a gutter system, attached to the top of the roof that runs the maximum length of the reservoir. There is a metal ladder and a metal walkway on top of the roof at the southeastern edge of the reservoir, which lead to a utility box and manhole. Along this walkway, there are built-in pipes and equipment related to the maintenance of the reservoir. The periphery of the reservoir is bound by an asphalt road that is lined by a concrete curb with drainages.

Concrete Foundation (1941)

This concrete foundation is located roughly 125 feet northeast of the De Soto Reservoir. According to plans held by LADWP (refer to Figure 9), the foundation was for the toolshed building associated with the original caretaker's house (demolished 2016). The foundation consists of a board-form concrete stem wall, roughly 2 feet high, 6 inches thick an covering a 12 foot by 20 foot space. Rubble and tree slash is piled inside the foundation.

Well (1941)

The well is located approximately 150 feet east of the De Soto Reservoir. According to plans held by LADWP, the well was located midway between the caretaker's house and garage, and was likely for aesthetic purposes. The well rises three feet high, with a 3 foot exterior diameter and 2 foot-6 inch interior diameter. It is constructed of loosely coursed rock rubble masonry and mortared thickly with concrete.

Chlorination Building (1971)

The Chlorination Station building was added to the site in 1971. It is a shed roofed utilitarian structure, with a footprint measuring 26 feet by 16 feet. The building is constructed of concrete masonry unit blocks and features a shed roof clad in rolled composite roofing, with a wide 1-1/2 foot wide overhang. The front elevation faces south to the access road and features only a metal door with no other fenestration. The east and west elevations have nothing, the rear (north) elevation features a small metal vent built into the wall, and utility boxes with a metal awning over the gas meter.

Meteorological Station (circa 1965-1971)

The meteorological station was built over the area marked on the 1941 plans as "diversion structure." The station is inside a chain link fenced and is still located atop a diversion structure that appeared inoperable at the time if visit. Inside the chain link fence there is a board covered channel; a metal, gable-roofed housing for a pump or diesel engine; a board formed concrete structure with mesh screens on one side; a raised, concrete maintenance hole, with a metal disc-style cover; and a metal pole structure of unknown use; all of which is set inside a board formed concrete retaining wall, with two steps on the northeast side, roughly 2 feet high and topped with chain link fence.

6.2 NRHP and CRHR Criteria

NRHP Criterion A/CRHR Criterion 1: associated with events that have made a significant contribution to the broad patterns of our history.

The De Soto Reservoir property (reservoir and associated structures) are part of a larger water system that originally serviced a primarily agricultural community at Chatsworth from 1941 onward. The reservoir itself changed functions from active municipal supply to water reserves, and has been altered several times to accommodate the residential and industrial growth of Chatsworth. The changes, however, are symptomatic of other regional and local change, rather than the cause or leading force for them. The De Soto Reservoir property is one of many water resources that LADWP and Chatsworth have utilized to meet their water needs over the years. It is neither the first such designed resource, nor is it directly associated with any of the major constructive periods by LADWP in the area (1917-1918 or 1930), nor is it directly associated with the historical trends responsible for the mid-century growth of Chatsworth: such as the manufacturing industry in the area such as Lockheed, Rocketdyne, Litton Systems, Ramo-Woolridge, RCA, Marquardt, and Radioplane, or the military-industrial site at Brown's Canyon (Nike Missile Base LA-88). The De Soto Reservoir property, then, is not associated with specific, distinguishable periods of growth or historical events that have resulted in a significant contribution to the history of Los Angeles, California, or the nation. Therefore, the subject property does not appear eligible under NRHP/CRHR Criteria A/1.

NRHP Criterion B/CRHR Criterion 2: associated with the lives of significant persons in our past.

Archival research on the De Soto Reservoir property failed to reveal associations with any persons significant in the history of Los Angeles, the state, or the nation. Therefore, the De Soto Reservoir property does not appear eligible under NRHP/CRHR Criteria B/2.

NRHP Criterion C/CRHR Criterion 3: embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

The De Soto Reservoir property is composed of several structures which exhibit utilitarian engineering, focused around a small-scale reservoir meant to supply water via trunk lines to both agricultural-based and residential recipients. The LADWP engineers who designed De Soto Reservoir pioneered a new construction and surface-finishing system that involved rolling the four-inch asphaltic concrete lining on the reservoir's steep slopes via a tractor with a roller and hoisting drum attachment, according to an engineering periodical. Despite the enthusiastic response the *Engineering News-Record*, the construction method resulted in a lining failure exposed during its first official cleaning in 1945. Since then, repairs and additional equipment have been used to supplement to operation of the reservoir, indicating that the construction method, while novel, was not repeated due to its impracticality. The original construction method was obliterated in 1948, just a few years after it had been placed into service, when LADWP made repairs to the structure to prevent further leaking and settling. The De Soto Reservoir was covered, further altering the original design, between 1982 and 1988. Around the remainder of the property built components were demolished in 2016 and 1971 (caretaker's house, garage, tool shed), as well as added in the late 1960s and 1971 (meteorological station, chlorination building). Minor components of the original caretakers house remain (well and tool shed foundation), but not enough to convey function or historical association. The reservoir itself does not embody any distinctive characteristics of a type, period, or method of construction that persists through the present unaltered. There are little inherent artistic or designed values associated with the concrete reservoir. Archival research could not directly connect the De Soto Reservoir to a master architect, engineer, or craftsperson. As-built plans provided did not specify the designer of the reservoir or associated buildings and structure beyond "DWP." For all of the reasons described herein, the subject property does not appear eligible under NRHP/CRHR Criteria C/3.

NRHP Criterion D/CRHR Criterion 4: have yielded, or may be likely to yield, information important in history or prehistory.

There is no evidence to indicate that the De Soto Reservoir property is likely to yield any information important in prehistory or history. The subject property is also not associated with an archaeological site or a known subsurface cultural component. Therefore, the subject property does not appear eligible under NRHP/CRHR Criteria D/4.

6.3 Integrity

The De Soto Reservoir property appears to retain integrity of location and association only. Integrity of setting, design, materials, workmanship, and feeling are diminished through the numerous changes to the reservoir itself, the demolition and addition of modern buildings, its immediate setting on LADWP land, and its overall setting in Chatsworth. The integrity of setting, on a large LADWP tract with a caretaker's house and associated buildings, in a general setting in an non-urbanized agricultural area, is no longer extant, destroyed by residential subdivision development, the introduction of the Sierra School, and the SR 118 highway. Design, materials, and workmanship have been greatly diminished by the multiple repairs and the covering of the reservoir between 1982 and 1988.

Further, the design intent of the De Soto Reservoir changed from a terminal reservoir to a tie-in for multiple trunk lines as early as the 1950s. The reservoir no longer retains integrity of feeling. It can no longer convey the feeling of an open-air reservoir with a LADWP on-site caretaker due to the deconstruction or alterations to the reservoir site over time. The site retains integrity of association with its original owner LADWP and their engineering and drafting team, as well as integrity of location as the reservoir itself has never been moved or enlarged.

6.4 City of Los Angeles HCM Criteria

For the same reasons already discussed in application of NRHP and CRHR criteria, the De Soto Reservoir property does not appear eligible under any of the City of Los Angeles HCM criteria, as described below:

- **The broad cultural, political, economic, or social history of the nation, state, or community is reflected or exemplified:**

  As state in Criterion A/1 above, the De Soto Reservoir property is not associated with any broader cultural, political, economic, or social history of the United States, the state of California, the city of Los Angeles or the neighborhood of Chatsworth. The reservoir is part of a larger context of water supply to the entirety of the City of Los Angeles and supported towns and communities in the surrounding region including San Fernando Valley. Individually, the reservoir and associated structures hold little a minor role in the broader history of water supply.

- **Identified with historic personages or with important events in the main currents of national, state, or local history:**

  As stated in Criterion B/2, archival research on the De Soto Reservoir property failed to reveal associations with any persons significant in the history of Los Angeles, the state, or the nation. Additionally, no specific important events were identified that can be connected with the main currents of local, state, or national history.

- **Embody the distinguishing characteristics of an architectural-type specimen, inherently valuable for a study of a period, style, or method of construction:**

  As stated in Criterion C/3, the De Soto Reservoir property is a concrete reservoir and associated structures and outbuildings. It had been constructed simply, lacking distinctive characteristics of a period, or style. The method of construction for the reservoir, using the tractor with roller attached to a hoisting arm to compact the reservoir surface before pouring the concrete liner was recorded as innovative for the time, however, subsequent alterations to the reservoir after the reservoir settled and leaked have damaged the integrity of this construction method. The other structures and buildings are unremarkable and lack architectural value.

- **A notable work of a master builder, designer, or architect whose individual genius influenced his or her age:**

  Also stated in Criterion C/3, archival research did not reveal master builders, designers, or architects with any degree of influence over their peers or time period associated with the De Soto Reservoir property.

6.5 Evaluation Findings

After thorough consideration of NRHP, CRHR, and City of Los Angeles HCM evaluation criteria, the De Soto Reservoir does not appear eligible for either national, state, or local listing. Therefore, the De Soto Reservoir does not appear to be an historical resource for the purposes of CEQA or an historic property for the purposes of Section 106 of the NHPA.

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7 PROJECT EFFECTS/IMPACTS ASSESSMENT

Section 106 of NHPA requires federal agencies to take into account the effects of their undertakings on historic properties, assess the effects, and seek ways to avoid, minimize, or mitigate any adverse effects on such properties (36 CFR 800.1[a]). No historic properties have been identified within the project's Area of Potential Effects (APE), as a result of the records search, survey, and archival research. Therefore, no known historic properties will be affected by the proposed undertaking. As a result, a finding of "no adverse effect" is recommended for the proposed undertaking.

CEQA requires a lead agency to determine whether a project may have a significant effect on historical resources (PRC section 21084.1; CEQA Guidelines section 15064.5(b)). One historical resource was identified within the project APE: the Chatsworth Momonga/Mission Trail, a locally designated historical resource that traverses the northern portion of the project area. The trail travels in between LADWP's property to the east and Sierra Canyon High School to the west, and intersects the project APE in an area north of the school parking lot and south of an unpaved lot located on APN 2701-003-907.

LADWP has committed to avoiding this resource, such that it would not be impacted by any proposed project-related activities. Construction of the new concrete tanks, access road, pipelines, and associated infrastructure would occur approximately 60 feet away from the intersecting portion of the trail. Likewise, demolition of the existing reservoir would occur approximately 75 feet away from the adjacent portion of the trail that straddles the APE. Further, the trail would remain open to the public during all construction and demolition activities. In consideration of potential impacts to the trail's historic setting, the trail traverses through an area that has seen extensive development in recent years, such that most of its original historic setting within the overlapping portions of the APE has already been lost. Construction of the SR 118 freeway, adjacent housing, high school, and existing water infrastructure have already impacted the historic setting of the trail in this segment. The demolition of the existing tanks and construction of new tanks would not significantly alter the already compromised setting of the trail. Therefore, no historical resources will be significantly impacted by the project and a finding of "less than significant impact" under CEQA is recommended for this project.

While no surface evidence of historical or archaeological resources was identified as a result of this study, it is possible that subsurface resources could be encountered/impacted by ground disturbing activities associated with the Project. Recommendations to reduce effects/impacts to undiscovered, subsurface cultural resources is provided in Section 8.

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8 RECOMMENDATIONS

No new cultural resources were identified within the Project APE as a result of the current study; therefore, no further management recommendations are necessary beyond standard protection measures to address unanticipated discoveries of cultural resources and human remains (listed below).

8.1 Unanticipated Discovery of Cultural Resources

In the event that archaeological resources (sites, features, or artifacts) are exposed during construction activities for the Project, all construction work occurring within 100 feet of the find shall immediately stop until a qualified archaeologist, meeting the Secretary of the Interior's Professional Qualification Standards, can evaluate the significance of the find and determine whether or not additional study is warranted. Depending upon the significance of the find, the archaeologist may simply record the find and allow work to continue. If the discovery proves significant under CEQA or Section 106 of the NHPA, additional work such as preparation of an archaeological treatment plan, testing, or data recovery may be warranted.

8.2 Unanticipated Discovery of Human Remains

In accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found, the County Coroner shall be notified within 24 hours of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains shall occur until the County Coroner has determined, within two working days of notification of the discovery, the appropriate treatment and disposition of the human remains. If the remains are determined to be Native American, the Coroner shall notify the NAHC in Sacramento within 24 hours. In accordance with California Public Resources Code, Section 5097.98, the NAHC must immediately notify those persons it believes to be the MLD from the deceased Native American. The MLD shall complete their inspection within 48 hours of being granted access to the site. The designated Native American representative would then determine, in consultation with the property owner, the disposition of the human remains.

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APPENDIX A

Preparer's Qualifications

Kate Geraghty Kaiser

Architectural Historian

Kate Geraghty Kaiser is an architectural historian with more than five years of professional experience as a cultural resource manager specializing in California Environmental Quality Act/National Environmental Quality Act (CEQA/NEPA) compliance, National Historic Preservation Act (NHPA) Section 106 compliance, reconnaissance and intensive level surveys, archival research, cultural landscapes, and GIS.

EDUCATION

University of Oregon
M.S. Historic Preservation, 2017
Boston University
B.A. Archaeology, 2009

PROFESSIONAL AFFILIATIONS

California Preservation Foundation
Vernacular Architecture Forum
Association for Preservation Technology - Southwest

Ms. Kaiser meets the Secretary of the Interior's Professional Qualification Standards for both Architectural History and Archaeology. She is experienced at managing multidisciplinary projects in the lines of transportation and federal land management. She has experience preparing environmental compliance documentation in support of projects that fall under Sections 106 and 110 of the National Historic Preservation Act (NHPA), and the California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA).

Dudek Project Experience (October 2017-present)

Development

Trail to Crane Creek Project, Sonoma County, California. 2018

Ms. Kaiser served as architectural historian and co-author of the cultural resources report for the Trail to Crane Creek Built Environment Report. Preparation of the report involved site recordation, extensive archival research, historic context development, engineering feature development descriptions, historical significance evaluations, and updated DPR forms for a historic stone wall component of the project. The project proposed to modify sections of the historic wall for the completion of a bike path for a Rohnert Park Regional Park.

Floriston Spring Filtration Project, Nevada County, California. 2018

Ms. Kaiser served as architectural historian and author of the cultural resources report for the Floriston Spring Filtration Project. Ms. Kaiser contributed building development descriptions, archival research, historical context development, and historical significance evaluations for the Floriston Schoolhouse, constructed in 1893. The project proposed to alter portions of the schoolhouse including its modern addition, as well as trench and lay pipe for a new water filtration system, new wastewater system and new holding tanks.

Stickleback Movie Ranch Evaluation Project, Los Angeles County, California. 2018.

Ms. Kaiser served as architectural historian and author of the cultural resources report for the Stickleback Movie Ranch Report. Ms. Kaiser contributed on-site fieldwork, building development descriptions, archival research, historical context development, and historical significance evaluations for five extant ranch buildings and several other fire-damaged resources. The project proposed to demolish extant buildings after they were damaged and portions of the property sustained extensive damage after the 2016 Sand Fire.

1830 Wilikina Project. Wahiawā, Honolulu County, Hawai'i. 2018.

Ms. Kaiser served as architectural historian and author of the reconnaissance level survey form and accompanying report for the Kemoo-By-The-Lake condominium building at 1830 Wilikina Drive in Wahiawā, constructed in 1972. Ms. Kaiser's report included defining the APE, conducting a record search of the mall

and adjacent properties with SHPD, developing the building description, archival research, historical context development, historical significance evaluations, and RLS form production for Kemoo-By-The-Lake Condominium. The project proposed to modify an existing telecommunication equipment tower atop the condominium building.

Harbor View Plaza Project. Honolulu, Honolulu County, Hawai'i. 2018. (in progress)
Ms. Kaiser served as architectural historian and author of the reconnaissance level survey form and accompanying report for the building at 1676 Ala Moana Boulevard in Honolulu, constructed in 1968. Ms. Kaiser's report included conducting a record search of the building and adjacent properties with SHPD, developing the building description, archival research, historical context development, historical significance evaluations, and RLS form production for the 16 floor high-rise apartments. The project proposed to construct a new telecommunication equipment tower atop the building.

Naniloa Surf Project. Hilo, Hawai'i County, Hawai'i. 2018.
Ms. Kaiser served as architectural historian and author of the reconnaissance level survey form for the Grand Naniloa Hotel in Hilo, constructed in 1967. Ms. Kaiser's report included building development descriptions for each of the hotel complex buildings, archival research, historical context development, historical significance evaluations, and RLS form production for the Grand Naniloa Hotel, including addressing its designation as a Historic Hotel of America. The project proposed to modify an existing telecommunication equipment tower atop one of the hotel buildings.

Dole Cannery Project. Honolulu, Honolulu County, Hawai'i. 2018.
Ms. Kaiser served as architectural historian and author of the reconnaissance level survey form and accompanying report for the Dole Cannery warehouse buildings at 650 Iwilei Road in Honolulu, constructed between 1918 and 1931. Ms. Kaiser's report included defining the APE, conducting a record search of the company, the cannery, and adjacent properties with SHPD, developing the building description, archival research, historical context development, historical significance evaluations, and RLS form production for Dole Cannery. The project proposed to modify an existing telecommunication equipment tower atop the 7-story warehouse building.

1132 South King Project. Honolulu, Honolulu County, Hawai'i. 2018.
Ms. Kaiser served as architectural historian and author of the reconnaissance level survey form and accompanying report for the building at 1132 King Street in Honolulu, constructed in 1965. Ms. Kaiser's report included defining the APE, conducting a record search of the building and adjacent properties with SHPD, developing the building description, archival research, historical context development, historical significance evaluations, and RLS form production for the mixed use residential/commercial building. The project proposed to construct a new telecommunication equipment tower atop the building.

Aʻala Street Project, Honolulu, Honolulu County, Hawai'i. 2018.
Ms. Kaiser served as architectural historian and author of the reconnaissance level survey form and accompanying report for the Aloha United Fund Building in Honolulu, constructed in 1970. This building had been previously identified as eligible for the NRHP and HRHP under Criterion C in 2017. Ms. Kaiser's report included defining the project APE, RLS form production, conducting a record search of the Aloha United Fund Building and adjacent properties with SHPD, developing the building description, extensive archival research, historical context development, and analyzing the existing historical significance evaluation for the

building within the researched and fully developed historical context. The project proposed to modify an existing telecommunication equipment tower atop the building. In consideration of its eligibility status, Ms. Kaiser proposed recommendations that the new equipment would not adversely affect character defining features that qualify the building for the NRHP or Hawai'i Register.

Market City Project, Honolulu, Honolulu County, Hawai'i. 2018.
Ms. Kaiser served as architectural historian and author of the reconnaissance level survey form and accompanying report for the Market City Shopping Center, constructed in 1948. Ms. Kaiser contributed report sections that included defining the APE, conducting a record search of the shopping and adjacent properties with SHPD, developing the building description, and RLS form production for the shopping center. The project proposed to modify an existing telecommunication equipment tower atop the shopping center.

Kaʻahumanu Mall Project, Kahului, Maui County, Hawai'i. 2018.
Ms. Kaiser served as architectural historian and author of the reconnaissance level survey form and accompanying report for the Queen Ka'ahumanu Center Mall in Kahului, constructed in 1972. Ms. Kaiser's report included defining the APE, conducting a record search of the mall and adjacent properties with SHPD, developing the building description for the outdoor mall complex, extensive archival research, historical context development, historical significance evaluation, and RLS form production for the Queen Ka'ahumanu Center Mall. The project proposed to modify an existing telecommunication equipment tower atop the mall's movie theater building.

Education

James Campbell High School Project. 'Ewa Beach, Honolulu County, Hawai'i. 2018.
Ms. Kaiser served as architectural historian and author of the reconnaissance level survey form for the James Campbell High School in 'Ewa Beach, constructed in 1962. Ms. Kaiser's report included building development descriptions, archival research, historical context development, historical significance evaluations, and RLS form production for Building D on James Campbell High School campus. The project proposed to install new telecommunication equipment atop the existing building.

Emerson Hall Replacement Project, University of California Davis, Yolo County, California. 2017.
Ms. Kaiser served as architectural historian and author of the cultural resources report for the Emerson Hall Replacement Project. Ms. Kaiser contributed building development descriptions, archival research, historical context development, and historical significance evaluations for Emerson Hall. The project proposed to demolish Emerson Hall, a University of California, Davis dormitory, and replace it with a new 180,000 gsf dormitory which includes increasing bed capacity from 600 students to 800 students, updating and improving HVAC, fire suppression systems, plumbing, lighting, telecommunications, high-speed internet access, parking improvements, and demolishing select buildings.

Elkus Ranch Master Plan Project, University of California Davis, San Mateo County, California. 2017
Ms. Kaiser served as architectural historian and coauthor of the cultural resources report for the Elkus Ranch Master Plan Project. Ms. Kaiser contributed building development descriptions, archival research, in-field research, GIS data collection, and historical significance evaluations for buildings in the project. The project proposed to create a master plan for the ranch, which includes building improvements, parking improvements, and demolishing select buildings.

Municipal

Los Angeles Department of Water and Power De Soto Tanks EIR Project, City of Los Angeles, Los Angeles County. California. 2018.
Ms. Kaiser served as architectural historian and author of the cultural resources report for the Los Angeles Department of Water and De Soto Tanks EIR CEQA-Plus Project. Preparation of the report involved site recordation, extensive archival research including coordinating with the DWP Records Center, historic context development, engineering feature development descriptions, historical significance evaluations, and DPR forms for each building of the project. The evaluation found the property ineligible under all NRHP, CRHR, and Los Angeles HCM designation criteria. The project proposed to demolish a concrete reservoir over 45 years in age and replace it with two underground reservoirs.

City of San Diego Public Utility Department, Historical Context Statement and Cultural Resource Report for Reservoirs. City of San Diego, San Diego, County, California. 2018 (in progress).
Ms. Kaiser served as architectural historian and co-author of the historical context statement for the San Deigo Reservoir system administered by the Public Utilities Department. Preparation of the historical context statement involved extensive archival research in the Public Utility Department archive, historic context development, engineering feature development descriptions, historical significance evaluations, and DPR forms for ten reservoirs and pipelines included in the project.

Los Angeles Department of Water and Power Tujunga Spreading Grounds Enhancement Project, City of Los Angeles, Los Angeles County. California. 2018.
Ms. Kaiser served as architectural historian and author of the cultural resources report for the Los Angeles Department of Water and Power Tujunga Spreading Grounds CEQA-Plus Project. Preparation of the report involved site recordation, extensive archival research, historic context development, engineering feature development descriptions, historical significance evaluations, and DPR forms for each building of the project. The evaluation found the property ineligible under all NRHP, CRHR, and Los Angeles HCM designation criteria. The project proposed to modify a US Army Corps of Engineer-owned flood control channel to divert more flood water from the Tujunga Flood Control Channel into the Tujunga Spreading Grounds.

Los Angeles Department of Water and Power West Los Angeles District Yard Project, City of Los Angeles, Los Angeles County. California. 2017.
Ms. Kaiser served as architectural historian and author of the cultural resources report for the Los Angeles Department of Water and Power West Los Angeles District Yard Project. Preparation of the report involved extensive archival research, in-field research, historic context development, building development descriptions, historical significance evaluations, and DPR forms for each building of the project. The evaluation found the property ineligible under all NRHP, CRHR, and Los Angeles HCM designation criteria. The project proposed to demolish existing buildings and build new buildings and an underground parking structure.

Santa Monica City Yards Master Plan Project, City of Santa Monica, Los Angeles County California. 2017. Ms. Kaiser served as architectural historian and coauthor of the cultural resources report for the Santa Monica City Yards Master Plan Project contributed archival research, and building development section of the report. The project proposed to demolish existing structures at the City Yards.

Erica Nicolay

Cultural Resource Specialist

Erica Nicolay is an cultural resource specialist with 3 years' experience as an archaeologist, primarily in Southern California. Ms. Nicolay has worked on projects for private developers, municpalities, government agencies, and energy companies. She has experience determining cultural resource sensitity for proposed projects, developing project-specific mitigation measures, communicating with interested parties, and/or conducting fieldwork in order to assess known resources or determine if unknown resources could be present.

EDUCATION

California State University, Northridge
MA, Public Archaeology, 2016
University of California, Los Angeles
BA, Anthropology, 2012

Relevant Project Experience

Development

Cultural Resource Assessment for the Compton High School Replacement Project, Compton California. (3 Weeks) Co-authored cultural resource assessment report for the proposed Compton High School Replacement Project. The purpose of this assessment was to determine the sensitivity of the project area and to determine the likelihood that archaeological resources would be impacted by the proposed construction. Tasks comprised conducting historical research, including analyzing historical aerials, historical topographic maps, and ethnographic literature; initiating and tracking a Native American outreach program; and conducting a search of the California Historical Resources Information System (CHRIS).

222 West Second Street Tribal Cultural Resource Assessment, Los Angeles, California. (3 weeks) Co-authored a tribal cultural resource assessment for a proposed development at 222 West Second Street. The purpose of this assessment was to determine the likelihood of encountering historic or prehistoric tribal cultural resources during the proposed construction. Tasks included analyzing historical aerials, maps and ethnographic resources, and conducting a search of the CHRIS.

Resource Management

Archaeological Testing and Data Recovery Project, Malibu, California. (6 weeks) Served as a co-field director for an archaeological testing program and subsequent data recovery project at a prehistoric site in Malibu. The purpose of the project was to assess the state of the site, determine if there were intact features present in the proposed footprint of construction for a new gas line, and efficiently and appropriately document and remove any uncovered features. Tasks included supervising a crew of eight archaeologists, coordinating with construction crews, tracking excavation progress and findings, conducting excavation, and creating to-scale plan-view maps of all features.

Updated Cultural Resource Survey for the Travertine Land Development, La Quinta, California. (3 weeks) Served as survey leader on private and Bureau of Land Management land in La Quinta for the proposed Travertine Land Development Proposal. The purpose of the survey was to revisit sites that had previously been located and determine if they were within or outside of the proposed project's area of potential effects. Tasks include relocating and assessing the state of previously recorded sites, preparing updated site forms, and coauthoring the final survey report.

Fort Irwin Reliability Project, Barstow, California (3 weeks). Served as a field technician during transmission line surveys for Southern California Edison in Barstow, California. Compiled DPR forms and assisted with report preparation at the culmination of the survey.

High Speed Rail, Construction Package 4, Wasco, California (6 months). Served as the lead archaeological/paleontological monitor for construction associated with the High Speed Rail Project in Kern County. Construction activities monitored consisted mainly of geo-tech boring and grading. Surveyed areas solo or as part of team prior to any construction work took place. Ensured construction work only took place within approved footprint. Coordinated schedules with the lead engineers, construction crews, biological monitors, and Native American monitors to ensure all sensitive areas were monitored. Compiled monthly monitoring reports detailing all findings and all areas monitored that were submitted to the Authority.

Alameda Corridor Extension Project, San Gabriel, California (9 months). Served as a field technician during the San Gabriel Mission ACE Project. Screened and excavated a mission-era site immediately adjacent to the San Gabriel Mission. The identification of human and faunal remains was required. Participated in data analysis and entry into the Microsoft Access database. This data entry involved preliminary identification quality checks as well as meta-data quality assurance within the database.

Metropole Project, Avalon, Catalina Island, California (3 months). Served as a field technician during the Metropole Project on Catalina Island. Monitored, excavated, and screened back dirt from previous excavations with emphasis on identification of grave goods and the distinction between human and faunal remains. Participated in data analysis and entry into the Microsoft Access database. This data entry involved preliminary identification quality checks as well as meta-data quality assurance within the database.

Samantha Murray, MA

Historic Built Environment Lead / Senior Architectural Historian

EDUCATION

California State University, Los Angeles
MA, Anthropology, 2013

California State University, Northridge
BA, Anthropology, 2003

PROFESSIONAL AFFILIATIONS

California Preservation Foundation
Society of Architectural Historians
National Trust for Historic Preservation
Registered Professional Archaeologist

Samantha Murray is a senior architectural historian with 12 years' professional experience in in all elements of cultural resources management, including project management, intensive-level field investigations, architectural history studies, and historical significance evaluations in consideration of the California Register of Historical Resources (CRHR), the National Register of Historic Places (NRHP), and local-level evaluation criteria. Ms. Murray has conducted hundreds of historical resource evaluations and developed detailed historic context statements for a multitude of property types and architectural styles, including private residential, commercial, industrial, educational, medical, ranching, mining, airport, and cemetery properties, as well as a variety of engineering structures and objects. She has also provided expertise on numerous projects requiring conformance with the *Secretary of the Interior's Standards for the Treatment of Historic Properties*.

Ms. Murray meets the Secretary of the Interior's Professional Qualification Standards for both Architectural History and Archaeology. She is experienced managing multidisciplinary projects in the lines of transportation, transmission and generation, federal land management, land development, state and local government, and the private sector. She has experience preparing environmental compliance documentation in support of projects that fall under the California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA), and Sections 106 and 110 of the National Historic Preservation Act (NHPA). She also prepared numerous Historic Resources Evaluation Reports (HRERs) and Historic Property Survey Reports (HPSRs) for the California Department of Transportation (Caltrans).

Dudek Project Experience (2014-2018)

Birch Specific Plan 32-Unit Condo Project, City of Carson, Los Angeles County, California (2018). Dudek was retained by the City of Carson to prepare a cultural resources report for a project that proposes to demolish approximately 6,200 square feet of existing residential buildings and roughly 5,850 square feet of pavement on the project site, and construct a 32-unit residential condominium community with on-grade parking, landscaping, and other associated improvements. The historical significance evaluation included three residential properties proposed for demolition. All properties were found not eligible under all designation criteria and integrity requirements. Ms. Murray provided QA/QC of the final cultural resources report.

Santa Monica/Orange Grove Mixed-Use Development at 7811 Santa Monica Boulevard, City of West Hollywood, Los Angeles County, California (2017). Dudek was retained by the City of West Hollywood to prepare an Environmental Impact Report (EIR) for the Santa Monica/Orange Grove Mixed-Use Development Project. In support of the EIR, Dudek conducted a cultural resources inventory and evaluation of two commercial properties at 7811 Santa Monica Blvd. and 1125-1127 N. Ogden Drive. Both properties were found not eligible for designation under

NRHP, CRHR and local designation criteria. Ms. Murray co-authored the technical report and provided QA/QC.

Transportation Vessels Manufacturing Facility Project at Berth 240, Port of Los Angeles, Los Angeles County, California (2017). Dudek was retained by the Los Angeles Harbor Department (LAHD) to provide a cultural resources assessment for a project that proposes to construct a facility to manufacture transportation vessels at Berth 240 off South Seaside Avenue on Terminal Island. The site is adjacent to the NRHP-eligible Bethlehem Shipyard Historic District. Ms. Murray provided an updated conditions assessment of the site and an updated evaluation of the historic district to address integrity issues. She also reviewed project design plans for new construction within the district for conformance with the Secretary of the Interior's Standards for Rehabilitation.

Berths 238-239 [PBF Energy] Marine Oil Terminal Wharf Improvements Project and Lease Renewal, Port of Los Angeles, Los Angeles County, California (2017). Dudek was retained by the Los Angeles Harbor Department (LAHD) to provide an updated cultural resources assessment for Berths 238-239 at the Port of Los Angeles (POLA), as part of the proposed Environmental Impact Report (EIR) for the Berths 238-239 [PBF Energy] Marine Oil Terminal Wharf Improvements Project and Lease Renewal. Ms. Murray updated a previous evaluation of the project area conducted in 2010. This included a pedestrian survey, archival research, and a cultural resources impact assessment. The wharf was found not eligible under all designation criteria.

Robertson Lane Hotel Commercial Redevelopment Project, City of West Hollywood, Los Angeles County, California (2017). Ms. Murray served as architectural historian and peer reviewer of the historical evaluation report. The project involved conducting a records search, archival research, consultation with local historical groups, preparation of a detailed historic context statement, evaluation of three buildings proposed for demolition in consideration of local, CRHR, and NRHP designation criteria, and assistance with the EIR alternatives analysis.

8777 Washington Boulevard Project, Culver City, Los Angeles County, California (2017). Dudek prepared a cultural resources assessment for a project that proposed to demolish the property located at 8777 Washington Blvd. Ms. Murray evaluated the building for NRHP, CRHR, and local level criteria and integrity requirements and co-authored the cultural resources report.

Covina Transit-Oriented Mixed-Use Development Project, City of Covina, Los Angeles County, California (2016). The proposed project would involve a General Plan Amendment (GPA) to develop a mixed-use residential, transit-oriented development (TOD) project. The proposed project would consist of three primary components: 1) a Transit Center and Park & Ride facility; 2) the Covina Innovation, Technology, and Event Center (iTEC) - an event center and professional office incubator space; and 3) residential townhome units. Ms. Murray evaluated one residential and one commercial property over 45 years old for historical significance. Both were found not eligible. Ms. Murray also co-authored the cultural resources technical report.

Jack in the Box Drive Through Restaurant Project, City of Downey, Los Angeles County, California (2015). Ms. Murray served as architectural historian and lead author of the cultural resources study which included evaluation of two historic resources in consideration of national,

state, and local criteria and integrity requirements. The study also included a records search, survey, and Native American Coordination.

635 S. Citrus Avenue Proposed Car Dealership MND, City of Covina, Los Angeles County, California (2015). Ms. Murray served as architectural historian and archaeologist, and author of the cultural resources MND section. The project proposes to convert an existing Enterprise Rent-a-Car facility into a car dealership. As part of the MND section, Ms. Murray conducted a records search, Native American coordination, background research, building permit research, and a historical significance evaluation of the property. The study resulted in a finding of less-than-significant impacts to cultural resources.

8228 Sunset Boulevard Tall Wall Project, City of West Hollywood, Los Angeles County California (2014). Ms. Murray prepared DPR forms and conducted building development and archival research to evaluate a historic-age office building. The project proposes to install a tall wall sign on the east side of the building.

Robert Salamone vs. The City of Whittier (2016). Ms. Murray was retained by the City of Whittier to serve as an expert witness for the defense. She peer reviewed a historic resource evaluation prepared by another consultant and provided expert testimony regarding the contents and findings of that report as well as historic resource requirements on a local and state level in consideration of the City of Whittier's Municipal Code Section 18.84 and CEQA. Judgement was awarded in favor of the City on all counts.

The Santa Monica City Yards Master Plan Project, City of Santa Monica, Los Angeles County, California (2017). The City of Santa Monica retained Dudek to complete a cultural resources study for the proposed City Yards Master Plan project site located at 2500 Michigan Avenue in the City of Santa Monica. The study involved evaluation of the entire City Yards site, including two murals and a set of concrete carvings for historical significance and integrity. As a result, the City Yards and its associated public art work was found ineligible under all designation criteria. Ms. Murray conducted the intensive level survey, building permit research, co-authored the technical report, and provided QA/QC of the final cultural resources report.

148 North Huntington Street, City of Pomona, Los Angeles County, California (2017). Dudek was retained by the City of Pomona to conduct a cultural resources study for the remediation of the project site located at 148 North Huntington Street. The proposed project involves the excavation, removal, and off-site treatment of approximately 10,000 Cubic Yards (CYs) of contaminated soil due to the former presence of a manufactured gas plant (MGP) at the project site (currently the City of Pomona Water and Wastewater Yards). All buildings over 45 years of age within the project site were evaluated for the CRHR and local landmark eligibility as part of the Pomona Gas Plant site. The site was found not eligible with concurrence from the historic resources commission. Ms. Murray conducted the survey, prepared the evaluation, and authored the cultural resources report.

Judicial Council of California Historical Resource Evaluation Report for the Santa Monica Courthouse, City of Santa Monica, Los Angeles County, California (2017). Dudek was retained by the Judicial Council of California (JCC) to prepare an evaluation of the Santa Monica Courthouse building, located at 1725 Main Street in the City of Santa Monica, California. To comply with Public

Resources Code Section 5024(b), the JCC must submit to the State Historic Preservation Officer (SHPO) an inventory of all structures over 50 years of age under the JCC's jurisdiction that are listed in or that may be eligible for inclusion in the National Register of Historic Places (NRHP), or registered or that may be eligible for registration as a California Historical Landmark (CHL). The Santa Monica Courthouse was found not eligible for designation under all applicable criteria. Ms. Murray co-authored the report and provided QA/QC of the final cultural resources report.

Department of General Services Historical Resource Evaluation for the Pomona Armory at 600 South Park Avenue, City of Pomona, Los Angeles County, California (2017). Dudek was retained by the State of California Department of General Services to mitigate potential adverse effects to the Pomona Armory (600 South Park Avenue), a state-owned historical resource proposed to be transferred from State-ownership to a local agency or private owner. Ms. Murray prepared a detailed significance evaluation for the Pomona Park Armory in the consideration NRHP, CRHR, CHL, and City of Pomona designation criteria and integrity requirements, and prepared a single historic landmark application for the property. The Pomona Park Armory was locally designated after unanimous approval by the Historic Resources Commission and City Council. SHPO concurred with the evaluation findings and agreed that adverse effects had been adequately mitigated with no comments.

Presentations

***Historical Resources under CEQA*. Prepared for the Orange County Historic Preservation Planner Working Group. Presented by Samantha Murray, Dudek. December 1, 2016.** Ms. Murray delivered a one-hour PowerPoint presentation to the Orange County Historic Preservation Planner Working Group, which included planners from different municipalities in Orange County, regarding the treatment of historical resources under CEQA. Topics of discussion included identification of historical resources, assessing impacts, avoiding or mitigating impacts, overcoming the challenges associated with impacts to historical resources, and developing effective preservation alternatives.

***Knowing What You're Asking For: Evaluation of Historic Resources*. Prepared for Lorman Education Services. Presented by Samantha Murray and Stephanie Standerfer, Dudek. September 19, 2014.** Ms. Murray and Ms. Standerfer delivered a one-hour PowerPoint presentation to paying workshop attendees from various cities and counties in Southern California. The workshop focused on outlining the basics of historical resources under CEQA, and delved into issues/challenges frequently encountered on preservation projects.

Relevant Training

- CEQA and Historic Preservation: A 360 Degree View, CPF, 2015
- Historic Designation and Documentation Workshop, CPF, 2012
- Historic Context Writing Workshop, CPF, 2011
- Section 106 Compliance Training, SWCA, 2010
- CEQA Basics Workshop, SWCA, 2009
- NEPA Basics Workshop, SWCA, 2008
- CEQA, NEPA, and Other Legislative Mandates Workshop, UCLA, 2008

APPENDIX B

CONFIDENTIAL

Records Search Results

APPENDIX C

DPR Forms

State of California ◆ The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code

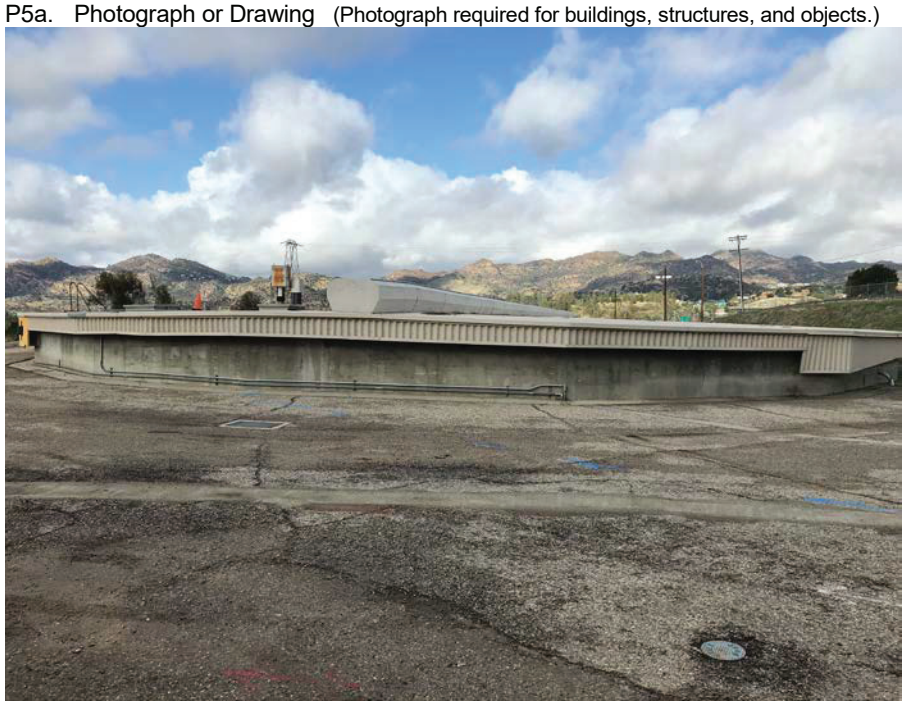
Other Listings
Review Code Reviewer Date

Page 1 **of** 14 ***Resource Name or #:** (Assigned by recorder) De Soto Reservoir
P1. Other Identifier:
***P2. Location:** ☐ **Not for Publication** ☒ **Unrestricted**
***a. County** Los Angeles County **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** Oat Mountain **Date** 2015 **T** 2N; **R** 16E; NW ¼ **of** SW ¼ **of Sec** 8; Mount Diablo **B.M.**
c. Address 11200 De Soto Avenue City Chatsworth Zip 91311
d. UTM: (Give more than one for large and/or linear resources) Zone 11S , 0353873 mE/ 3793384 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
APN: 2706-007-901. The project site is located at 11200 De Soto Avenue, between De Soto Avenue to the west, Rinaldi Street to the south and east and State Highway 118 (Ronald Reagan Freeway) to the north.

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The De Soto Reservoir property contains an in-ground reservoir (1941), a building foundation, a well, a chlorination building, and a weather station. The reservoir is a pear-shaped concrete reservoir, now covered by an aluminum cover. Other features at the site are either related to the reservoir keeper's property which used to be immediately east of the reservoir (e.g. foundations) or was added over time to comply with state standards (e.g. chlorination building). (See Continuation Sheet)

***P3b. Resource Attributes:** (List attributes and codes) HP22– reservoir, HP9 – public utility building, AH2 – foundations, AH5 – wells/cistern

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



***P4. Resources Present:** ☒ Building ☒ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)
P5b. Description of Photo: (view, date, accession #) IMG_1679, March 14, 2018; View to northwest
***P6. Date Constructed/Age and Source:** ☒ Historic ☐ Prehistoric ☐ Both
1941 (DWP Records Center)
***P7. Owner and Address:**
Los Angeles Department of Water and Power
111 North Hope Street, Rm. 1044
Los Angeles, California 90012
***P8. Recorded by:** (Name, affiliation, and address) Kate Kaiser and Liz Denniston
Dudek
38 North Marengo Avenue
Pasadena, CA 91101
***P9. Date Recorded:** 3/2018
***P10. Survey Type:** (Describe)
Pedestrian
***P11. Report Citation**: (Cite survey report and other sources, or enter "none.")
Kaiser, Nicolay, and Murray. 2018. Cultural Resources Report for the Floriston Springs Filtration Project. Dudek.

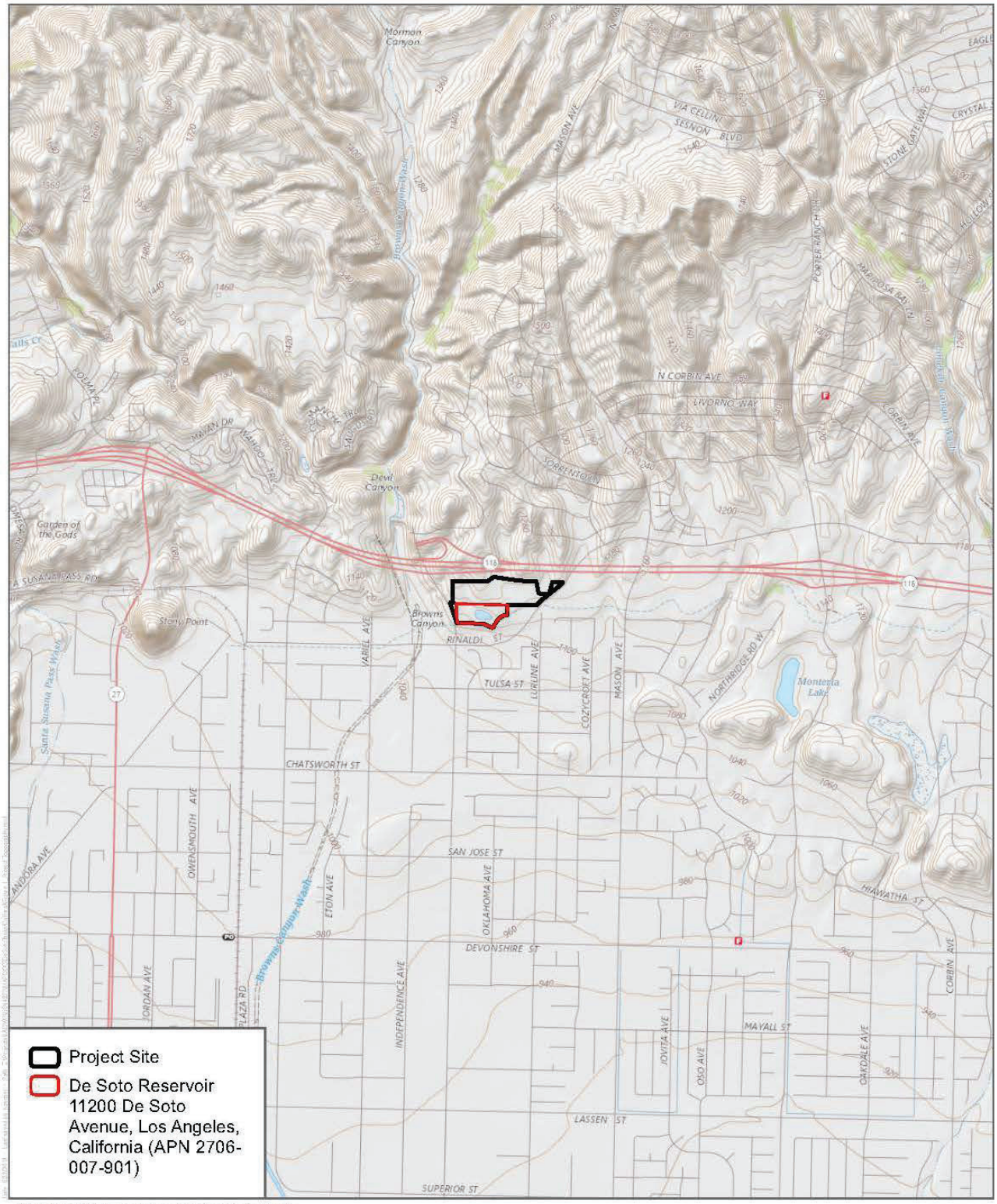
***Attachments:** ☐NONE ☒Location Map ☒Continuation Sheet ☒Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List):

State of California ♘ Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI#
Trinomial

Page 2 **of** 14 ***Resource Name or #** (Assigned by recorder) De Soto Reservoir
***Map Name:** Oat Mountain, CA ***Scale:** 1:24,000 ***Date of map:** 2015



SOURCE: USGS 7.5-Minute Series Oat Mountain Quadrangle
Township 2N; Range 16W; Section 8

DUDEK

0 1,000 2,000 Feet
0 285 570 Meters
1:24,000

FIGURE 1
Location Map
LADWP De Soto Tanks Cultural Report

State of California ◆ The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI#

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) De Soto Reservoir ***NRHP Status Code**
Page 3 **of** 14

B1. Historic Name: Chatsworth High Line Reservoir; De Soto Avenue Reservoir
B2. Common Name: De Soto Reservoir
B3. Original Use: DWP Reservoir B4. Present Use: DWP Reservoir
***B5. Architectural Style:** Utilitarian
***B6. Construction History:** (Construction date, alterations, and date of alterations)
De Soto Reservoir was constructed in 1941 (See Continuation Sheet)

***B7. Moved?** ☒No ☐Yes ☐Unknown **Date:** **Original Location:**
***B8. Related Features:**
Foundations
Well
Weather Station
Chlorination Building
Chatsworth High Line Aqueduct
Chatsworth Reservoir

B9a. Architect: Unknown b. Builder: Los Angeles Department of Water and Power
***B10. Significance: Theme** n/a **Area** n/a
Period of Significance n/a **Property Type** utility **Applicable Criteria** n/a
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

Acquiring and Planning the Site

Originally planned as the Chatsworth High Line Reservoir, the De Soto Reservoir went into service in 1941 (FAS 1938, 1944; Soifer 2018) according to visual confirmation from aerial photographs and verbal confirmation from LADWP. It is located along the Chatsworth High-Line, originally conceived to connect the San Fernando Reservoir to the Chatsworth Reservoir. The San Fernando Reservoir went into service in 1918 and consisted of two reservoirs: San Fernando Reservoir No. 1 (upper) completed in 1913 and San Fernando Reservoir No. 2 (still under construction 1916). The Chatsworth Reservoir site was scouted in 1911 and 1913, and construction began after securing the title to the property from Benjamin. Porter in 1917. The reservoir was completed in 1918. (See Continuation Sheet)

B11. Additional Resource Attributes: (List attributes and codes) n/a

***B12. References:**
(See Continuation Sheet)

B13. Remarks:

***B14. Evaluator:** Kate G. Kaiser
***Date of Evaluation:** June 11, 2018

(Sketch Map with north arrow required.)

(This space reserved for official comments.)

P3a. Description (Continued): The De Soto Reservoir was constructed and went into service in 1941 and is approximately 45,000-square feet. The reservoir sits in a graded hillside at the northwest corner of De Soto Avenue and Rinaldi Street. Access to the reservoir is through a paved road that can be entered from De Soto Avenue and runs east through the graded area. The access road has a spur that turns south then east again and runs along the periphery of the pear-shaped De Soto Reservoir. At its maximum width the reservoir is approximately 194 feet (North/South) and approximately 317 feet long (East/West). The construction of the reservoir consists of an oval-shaped concrete base and a metal roof cap, which covers the top and the sides of the reservoir. The metal roof is white and characterized by a series of trapezoidal shaped ridges resembling a folded plate that run roughly north-south along the top and arranged vertically along the sides. There is a hexagonal metal fixture, likely a gutter system, attached to the top of the roof that runs the maximum length of the reservoir. There is a metal ladder and a metal walkway on top of the roof at the southeastern edge of the reservoir which lead to a utility box and manhole. Along this walkway there is built-in pipes and equipment related to the maintenance of the reservoir. There are also maintenance facilities and equipment located to the southeast of the reservoir, but these are outside the project area. The periphery of the reservoir is bound by an asphalt road that is lined by a concrete curb with drainages.

B6. Construction History (Continued):

Alterations to the Building and Site

There have been several recorded alterations to the De Soto Reservoir.

Between its construction in 1941 and 1945, a caretaker's house, patio, garage, toolshed, and water tank were constructed east of the De Soto Reservoir (Figure 3). In 1945, a cesspool and water main were added to the site. In 1948, the reservoir was cleaned and drained, revealing damage and soil settlement at the west end of the reservoir. In 1954, the Granada Trunk Line replaced the Chatsworth High Line as the water source from Upper San Fernando Reservoir to De Soto Reservoir. In 1958, a second portion of the Granada Trunk Line, from De Soto Reservoir to Roscoe Boulevard was initiated. In 1959, LADWP sold a portion of the De Soto Reservoir lot as an easement for the Southern California Edison. In 1961, LADWP briefly attempted to acquire adjacent properties to the De Soto Reservoir, for a project that proposed to enlarge the existing reservoir, but this was unsuccessful and concluded in 1962 (Green 1948; Peterson 1959; Porter 1945; Socha 1962; Valley News 1954, 1958).

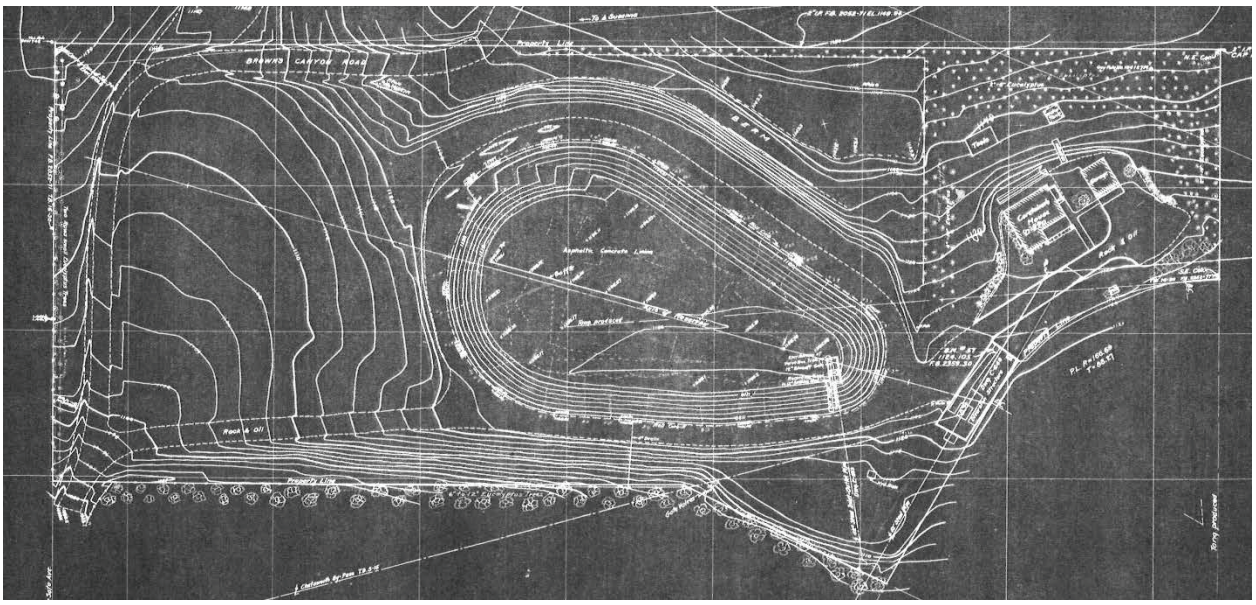


Figure 3. Plans showing caretaker's house and outbuildings, December 1941. (DWP Records Center)

In 1971, a chlorination station was added to the property. It was also around this time that the larger 1918 Chatsworth Reservoir was decommissioned due to earthquake damage and repurposed as a natural park. Sometime between 1982 and 1994, the caretaker's house and outbuildings were removed. In 1988 due to drought and water contamination concerns, the De Soto Reservoir was covered with an aluminum cover, protecting to water from evaporation and contamination from the recently completed Ventura Highway (State Route 118). The success of covering the De Soto Reservoir spurred other reservoir coverings in the LADWP-managed reservoirs (AMI 1982; FAS 1965; LAT 1971, 1988; Teledyne 1971; USGS 1994).

B10. Significance (Continued):

It was finally filled in 1919. The San Fernando Reservoirs and the Chatsworth Reservoir were linked by the Chatsworth High Line, an aqueduct that replaced a series of already existing irrigation ditches in the area to formally connect the two reservoirs. The High Line was constructed in 1916, and completed in 1918 before the Chatsworth Reservoir was filled (CLA 1916; LAT 1916; Robertson et. al. 1918; SWBC 1918; WPA 2018).

In 1930-1931 the Chatsworth Reservoir was drained and built up to hold a higher water capacity, as the population of Chatsworth increased. Increased water demands on the Chatsworth Reservoir and High Line meant that the water served as emergency residential and domestic drinking water, rather than its originally-

intended agricultural role as the decade continued. Also in 1931, the lands for a new DWP reservoir called the Chatsworth High Line Reservoir was purchased and plans were drawn up for the new reservoir. The Chatsworth High Line Reservoir, a different smaller water features than the Chatsworth Reservoir, was intended as an earthen reservoir at the mouth of Brown's Canyon. The State of California voided plans for this reservoir d in 1933 due to a change in LADWP's dam construction program, and the LADWP's inability to start the reservoir construction in the permitted amount of time (LADWP 1931, 1933; WPA 2018).

De Soto Reservoir was redesigned, built, and placed into service in 1941. It was built by contractors Schroeder & Company, Inc. of Roscoe, CA. The site was an open-air, concrete lined tank on a small parcel in the foothills of the Santa Susana Mountains. Construction of the De Soto Reservoir pioneered a new method for compacting the reservoir embankment (Figure 4, 5) (LADWP 1942):

> The side slopes and the bottom were paved with 4 inches of asphaltic concrete placed in two 2 inch layers, each layer being rolled by a light hot roller followed by a heavy cold roller weighing 2,000 pounds per linear foot. The hot roller smoothed and conditioned the surface so that the heavy roller could be operated without picking up or gouging into the plastic material. The rollers were moved up and down the slope by means of hoists mounted on small tractors. The inside embankment slopes are 1-1/2 to 1 and

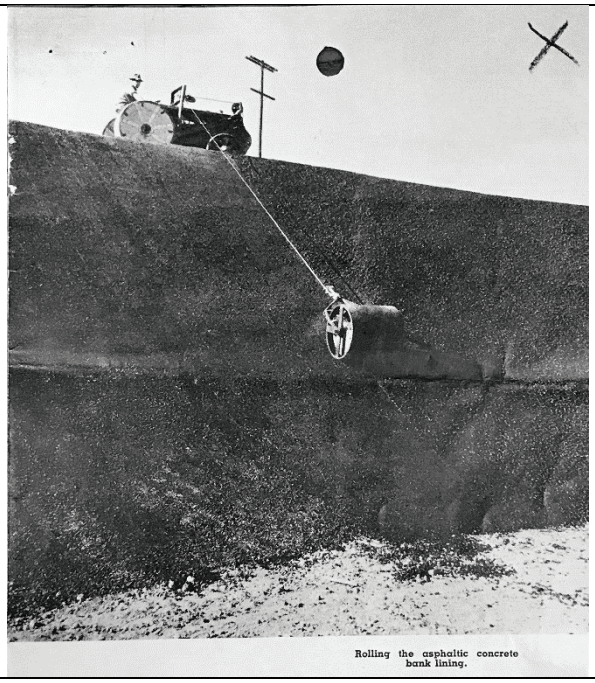


Figure 4. Photo demonstrating roller compaction at De Soto Reservoir, 1942. (DWP Record Center)

Figure 5. Photo demonstrating the roller compaction pioneered at the De Soto Reservoir, 1942, looking east. (LAPL 1004960, also held by DWP Record Center)

the height is 22 feet. A cement coating was brushed on the asphaltic concrete surface in order to reduce soil stress and to provide a smoother surface for better cleaning of the reservoir when empty.

Water from the Chatsworth High Line filled De Soto Reservoir. The reservoir handled terminal water storage at the terminus of the Chatsworth High Line. From the De Soto Reservoir, water switched from a pressure system to a gravity system and discharged into a separate domestic and irrigation supply water mains: the Chatsworth High Line Extension (which replaced the former High Line aqueduct to the Chatsworth Reservoir), and the planned projects for Granada and De Soto Trunk Lines (CDWR 1964; FAS 1944; Laval 1938; LADWP 1941, 1942; Soifer 2018; NETR 2018a).

As the population of the San Fernando Valley swelled in the post-World War II years, the demand for drinking water increased in the valley, turning previously agricultural water resources into drinking water for new residents. In 1954, LADWP proposed the first portion of the Granada Trunk Line, which would connect the Upper San Fernando Reservoir to the De Soto Reservoir. The new trunk line ran beside the existing Chatsworth High Line, and increased the total amount of water the Department of Water and Power was able to provide. In 1958, the second

portion of the Granada Trunk Line, which extended from De Soto Reservoir to Roscoe Blvd near Cohasset, was approved and constructed between 1958 and 1959 (Valley News 1954, 1958).

In 1971, the Sylmar Earthquake caused widespread damage to the San Fernando Valley, including its water infrastructure. The Chatsworth High Line, Maclay High Line, and Chatsworth Reservoir were temporarily disabled due to the earthquake damage and the Chatsworth Reservoir was officially retired as a result of the sustained damage and cost of repair. The reservoir was converted into a natural area park in the aftermath. Despite this the De Soto Reservoir and trunk lines remained in service as emergency water supply, for the area, continuing to service the region (LAT 1971; WPA 2018)

NRHP/CRHR Statement of Significance

In consideration of the project site's history and requisite integrity (see "Integrity Discussion," below), Dudek finds De Soto Reservoir not eligible for listing in the NRHP, CRHR or as a Los Angeles HCM based on the following significance evaluation and in consideration of national and state eligibility criteria.

Criterion A/1: Associated with events that have made a significant contribution to the broad patterns of our history.

The De Soto Reservoir is part of a larger water system that originally serviced a primarily agricultural community at Chatsworth from 1941 onward. The reservoir changed in its uses and has been altered several times to accommodate the residential and industrial growth of Chatsworth. The changes, however, are symptomatic of other regional and local change, rather than the cause or leading force for them. The De Soto Reservoir is one of many reservoirs and water resources that LADWP and Chatsworth have utilized to meet their water needs over the years. It is neither the first such designed resource, nor is it directly associated with any of the major constructive periods by LADWP in the area (1917-1918 or 1930), nor is it directly associated with the manufacturing industry in the area such as Lockheed, Rocketdyne, Litton Systems, Ramo-Woolridge, RCA, Marquardt, and Radioplane, or the military-industrial site at Brown's Canyon (Nike Missile Base LA-88). The De Soto Reservoir, then, is not associated with specific, distinguishable periods of growth or historical events that have resulted in a significant contribution to the history of Los Angeles, California, or the nation. Therefore, the subject property does not appear eligible under NRHP/CRHR Criteria A/1.

Criterion B/2: Associated with the lives of persons significant in our past.

Archival research on the subject property, De Soto Reservoir, failed to reveal associations with any persons significant in the history of Los Angeles, the state, or the nation. Therefore, the subject property does not appear eligible under NRHP/CRHR Criteria B/2.

Criterion C/3: Embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

The subject property is a utilitarian piece of engineering, a small-scale reservoir meant to supply water via trunk lines to both agricultural-based and residential recipients. The engineers De Soto Reservoir did pioneer a new construction and surface-finishing system that involved rolling the four-inch asphaltic concrete lining on the reservoir's steep slopes via a tractor with a roller and hoisting drum attachment. Despite the enthusiastic response the *Engineering News-Record*, the construction method resulted in a lining failure exposed during its first official cleaning in 1945. Since then, repairs and additional equipment have been used to supplement to operation of the reservoir, indicating that the construction method, while novel, was not repeated due to its impracticality. The De Soto Reservoir was covered, further altering the original design between 1982 and 1988. The reservoir does not embody any distinctive characteristics of a type, period, or method of construction that persists through the present unaltered. There are little inherent artistic or designed values associated with the concrete reservoir. Archival research could not directly connect the De Soto Reservoir to a master architect, engineer, or craftsperson. As-built plans provided did not specify the designer of the channel beyond "DWP". For all of the reasons described herein, the subject property does not appear eligible under NRHP/CRHR Criteria C/3.

Criterion D/4: Have yielded, or may be likely to yield, information important in prehistory or history.

There is no evidence to suggest that this property has the potential to yield information important to state or local history, nor is it associated with a known archaeological resource. Therefore, the property is recommended not eligible under NRHP/CRHR Criterion D/4.

City of Los Angeles HCM Criteria

For the same reasons already discussed in application of NRHP and CRHR criteria, the Tujunga Flood Control Channel does not appear eligible under any of the City of Los Angeles HCM criteria, as described below:

- *The broad cultural, political, economic, or social history of the nation, state, or community is reflected or exemplified:*

  As state in Criterion A/1 above, the site is not associated with any broader cultural, political, economic, or social history of the United States, the state of California, the city of Los Angeles or the neighborhood of Chatsworth. The reservoir is part of a larger context of water supply to the entirety of the City of Los Angeles and supported towns and communities in the surrounding region including San Fernando Valley. Individually, the reservoir holds little importance and only holds a minor role in the broader history of water supply.

- *Identified with historic personages or with important events in the main currents of national, state, or local history:*

  As stated in Criterion B/2, archival research on the subject property failed to reveal associations with any persons significant in the history of Los Angeles, the state, or the nation. Additionally, no specific important events were identified that can be connected with the main currents of local, state, or national history.

- *Embody the distinguishing characteristics of an architectural-type specimen, inherently valuable for a study of a period, style, or method of construction:*

  As stated in Criterion C/3, the subject property is a concrete reservoir, and constructed simply, lacking distinctive characteristics of a period, or style. The method of construction for the reservoir, using the tractor with roller attached to a hoisting arm to compact the reservoir surface before pouring the concrete liner might merit study, however, the construction method is also known to have failed in several places and been resurfaced.

- *A notable work of a master builder, designer, or architect whose individual genius influenced his or her age:*

  Also stated in Criterion C/3, archival research did not reveal master builders, designers, or architects with any degree of influence over their peers or time period associated with the De Soto Reservoir.

Integrity

The De Soto Reservoir appears to retain integrity of location and association only. Integrity of setting, design, materials, workmanship, and feeling are diminished through the numerous changes to the reservoir itself, its immediate setting on DWP land and its overall setting in Chatsworth. The integrity of setting, on a large DWP tract with a caretaker's house and associated buildings, in a general setting in an non-urbanized agricultural area, surrounded by orchards. Design, materials, and workmanship have been greatly diminished by the multiple repairs and the covering of the reservoir between 1982 and 1988. Further, the design intent of the De Soto Reservoir changed from a terminal reservoir to a tie-in for multiple trunk lines as early as the 1950s. The reservoir no longer retains integrity of feeling. It can no longer convey the feeling of an open-air reservoir with a DWP on-site caretaker due to the deconstruction or alterations to the reservoir site over time. The site retains integrity of association with its original owner LADWP and their engineering and drafting team, as well as integrity of location as the reservoir itself has never been moved or enlarged.

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APPENDIX E

Noise

APPENDIX E-1

Field Noise Data Sheets

DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: LADWP DE SOTO STORAGE TANKS — PROJECT #: 10649-27
SITE ID:
SITE ADDRESS: 11200 DE SOTO AVE, CHATSWORTH, CA — OBSERVER(S): PETE VITAR
START DATE: 5/9/18 — END DATE: 5/9/18
START TIME: 10:30 AM — END TIME: 12:15 PM

METEOROLOGICAL CONDITIONS

TEMP: 72 F — HUMIDITY: ____ % R.H. — WIND: (CALM) LIGHT MODERATE
WINDSPD: ____ MPH — DIR. N NE S SE S SW W NW — VARIABLE STEADY GUSTY
SKY: (SUNNY) (CLEAR) OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS

MEAS. INSTRUMENT: PICCOLO SLM-P3 — TYPE 1 (2) — SERIAL # 130927046
CALIBRATOR: BSWA CA 114 — SERIAL # 480151
CALIBRATION CHECK — PRE-TEST ____ dBA SPL — POST-TEST ____ dBA SPL — WINDSCRN YES

SETTINGS: A-WTD (SLOW) FAST FRONTAL RANDOM ANSI OTHER: ____

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
1-2 (ST-1)	10:49	11:04	57.6	68.5	53.1				

COMMENTS
READING TAKEN AT NORTHWEST CORNER OF SIERRA CANYON SCHOOL CAMPUS (SOUTH SIDE OF PROJECT SITE FENCE); PRIMARY NOISE SOURCE = TRAFFIC ON DE SOTO AVE.

SOURCE INFO AND TRAFFIC COUNTS

PRIMARY NOISE SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER: DE SOTO
ROADWAY TYPE: ASPHALT — DIST. TO RDWY C/L OR EOP: APX 230' TO CURB EDGE

TRAFFIC COUNT DURATION: ____ MIN — SPEED

COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB SPEED	SB/WB SPEED
AUTOS				
MED TRKS				
HVY TRKS				
BUSES				
MOTRCLS				

IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE ____

TRAFFIC COUNT DURATION: ____ MIN — SPEED

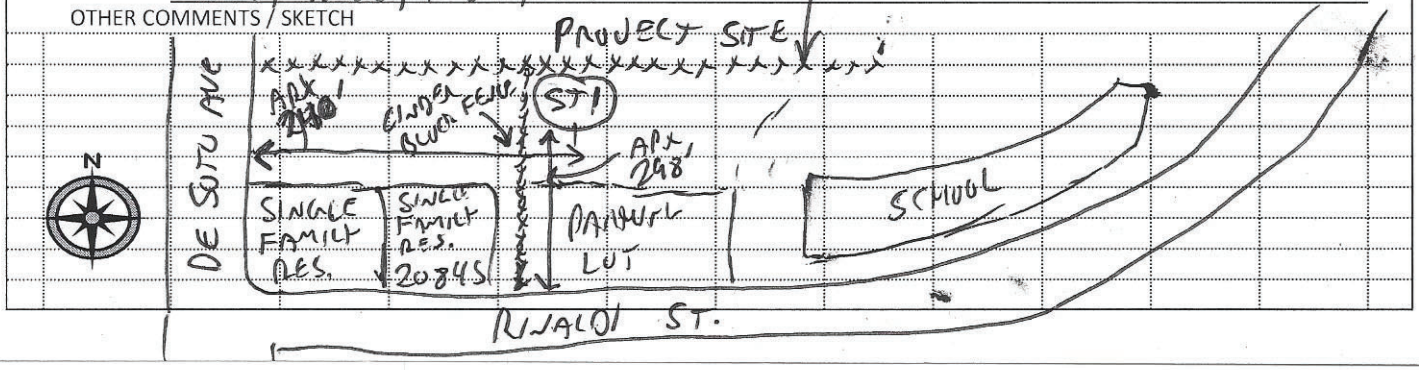
COUNT 2 (OR RDWY 2)	NB/EB	SB/WB	NB/EB SPEED	SB/WB SPEED

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS (BIRDS) DIST. INDUSTRIAL
DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
OTHER: ____

DESCRIPTION / SKETCH

TERRAIN: HARD (SOFT) MIXED FLAT OTHER: ____
PHOTOS: 1265; 1266; 1267; 1268
OTHER COMMENTS / SKETCH



DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: LADWP DE SOTO STORAGE TANKS — PROJECT #: 10649-27
SITE ID:
SITE ADDRESS: 11200 DE SOTO AVE, CHATSWORTH, CA — OBSERVER(S): PETE VITAR
START DATE: 5/9/18 — END DATE: 5/9/18
START TIME: 10:30 AM — END TIME: 12:15 PM

METEOROLOGICAL CONDITIONS

TEMP: 72 F — HUMIDITY: ____ % R.H. — WIND: (CALM) LIGHT MODERATE
WINDSPD: ____ MPH — DIR. N NE S SE S SW W NW — VARIABLE STEADY GUSTY
SKY: (SUNNY) (CLEAR) OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS

MEAS. INSTRUMENT: PICCOLO SLM-P3 — TYPE 1 (2) — SERIAL # 130927046
CALIBRATOR: BSWA CA 114 — SERIAL # 480151
CALIBRATION CHECK — PRE-TEST ____ dBA SPL — POST-TEST ____ dBA SPL — WINDSCRN YES

SETTINGS: A-WTD (SLOW) FAST FRONTAL RANDOM ANSI OTHER: ____

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
3-4 (ST2)	11:08	11:23	58.2	78.9	53.1				

COMMENTS: READING TAKEN AT WEST END OF SIENNA CANYON SCHOOL CAMPUS, IN PARKING LOT NEXT TO 20845 RINALDI ST (SINGLE FAMILY RESIDENCE). A CINDER BLOCK FENCE SEPARATES RESIDENCE FROM SCHOOL. READING TAKEN ON SCHOOL SIDE OF FENCE. PRIMARY NOISE SOURCE = TRAFFIC ON DE SOTO AVE.

SOURCE INFO AND TRAFFIC COUNTS

PRIMARY NOISE SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER: ____
ROADWAY TYPE: ASPHALT — DIST. TO RDWY C/L OR EOP: APX 230' TO DE SOTO CURB EDGE

TRAFFIC COUNT DURATION: ____ MIN — SPEED ____ MIN — SPEED

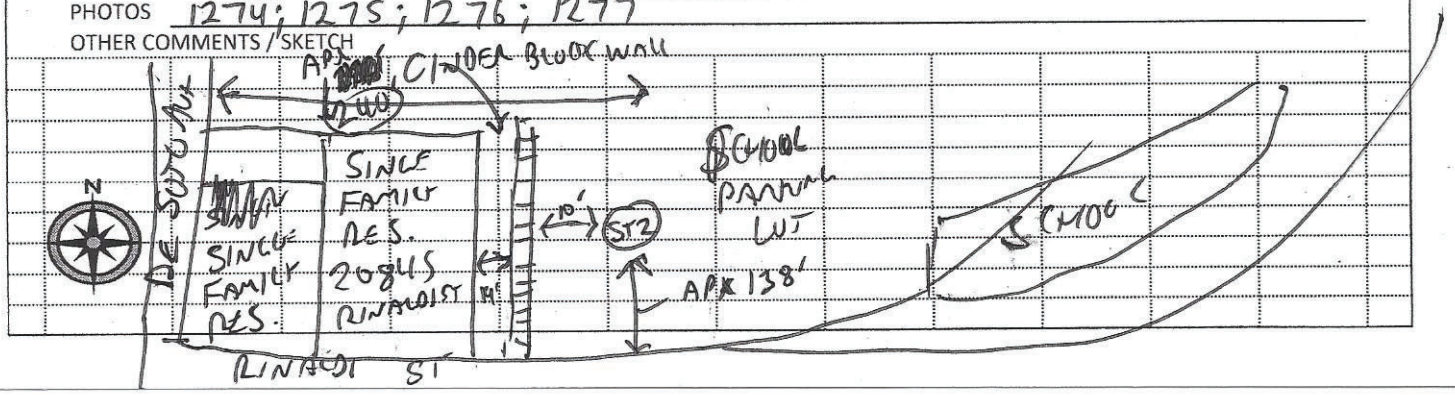
COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE ____	COUNT 2 (OR RDWY 2)	NB/EB	SB/WB	NB/EB	SB/WB
AUTOS										
MED TRKS										
HVY TRKS										
BUSES										
MOTRCLS										

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS (BIRDS) DIST. INDUSTRIAL
DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
OTHER: ____

DESCRIPTION / SKETCH

TERRAIN: (HARD) SOFT MIXED FLAT OTHER: ____
PHOTOS: 1274; 1275; 1276; 1277
OTHER COMMENTS / SKETCH



DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: LADWP DE SOTO STORAGE TANKS — PROJECT #: 10649-27
SITE ID:
SITE ADDRESS: 11200 DE SOTO AVE, CHATSWORTH, CA — OBSERVER(S): PETE VITAR
START DATE: 5/9/18 — END DATE: 5/9/18
START TIME: 10:30 AM — END TIME: 12:15 PM

METEOROLOGICAL CONDITIONS

TEMP: 72 F — HUMIDITY: ____ % R.H. — WIND: (CALM) LIGHT MODERATE
WINDSPD: ____ MPH — DIR. N NE S SE S SW W NW — VARIABLE STEADY GUSTY
SKY: (SUNNY) (CLEAR) OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS

MEAS. INSTRUMENT: PICCOLO SLM-P3 — TYPE 1 (2) — SERIAL # 130927046
CALIBRATOR: BSWA CA 114 — SERIAL # 480151
CALIBRATION CHECK — PRE-TEST ____ dBA SPL — POST-TEST ____ dBA SPL — WINDSCRN: YES

SETTINGS: A-WTD (SLOW) FAST FRONTAL RANDOM ANSI OTHER: ____

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
S-6 (ST3)	11:36	11:51	58.7	68.5	53.9				

COMMENTS: READING TAKE ON NORTH END OF ~~PROPERTY~~ SIERRA CANYON SCHOOL CAMPUS, AT ~~FENCE~~ CHAIN LINK FENCE WITH PROJECT SITE.

SOURCE INFO AND TRAFFIC COUNTS

PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL (OTHER: STUDENTS PASSING)
ROADWAY TYPE: ASPHALT — DIST. TO RDWY C/L OR EOP: ____

TRAFFIC COUNT DURATION: ____ MIN

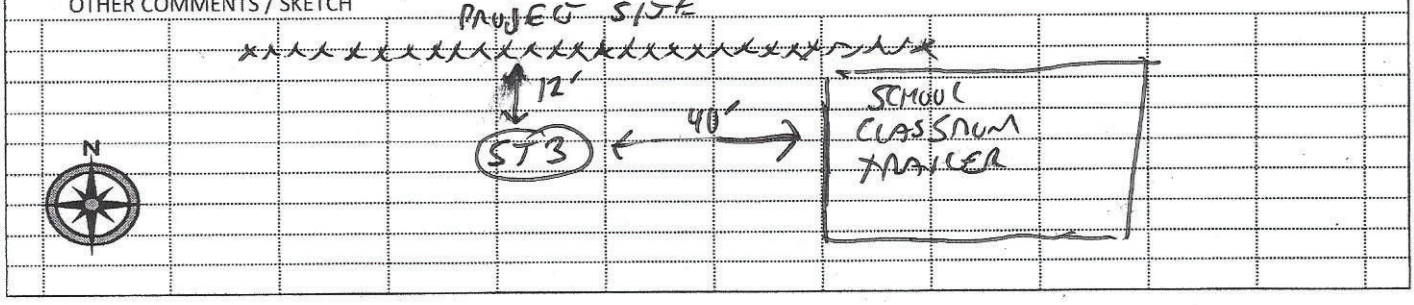
COUNT 1 (OR RDWY 1)	SPEED NB/EB	SPEED SB/WB	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE ____	COUNT 2 (OR RDWY 2)	____ MIN SPEED NB/EB	SPEED SB/WB
AUTOS						
MED TRKS						
HVY TRKS						
BUSES						
MOTRCLS						

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS (BIRDS) DIST. INDUSTRIAL
DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING (DIST. TRAFFIC (LIST RDWYS BELOW)) DISTD GARDENERS/LANDSCAPING NOISE
OTHER: TRAFFIC ON DE SOTO AVE AND ON RINALDI ST.

DESCRIPTION / SKETCH

TERRAIN: HARD (SOFT) MIXED FLAT OTHER: ____
PHOTOS: 1278; 1279; 1280; 1281
OTHER COMMENTS / SKETCH



DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: LADWP DE SOTO STORAGE TANKS — PROJECT #: 10649-27
SITE ID:
SITE ADDRESS: 11200 DE SOTO AVE, CHATSWORTH, CA — OBSERVER(S): PETE VITAR
START DATE: 5/9/18 — END DATE: 5/9/18
START TIME: 10:30 AM — END TIME: 12:15 PM

METEOROLOGICAL CONDITIONS

TEMP: 72 F — HUMIDITY: ____ % R.H. — WIND: (CALM) LIGHT MODERATE
WINDSPD: ____ MPH — DIR. N NE S SE S SW W NW — VARIABLE STEADY GUSTY
SKY: (SUNNY) (CLEAR) OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS

MEAS. INSTRUMENT: PICCOLO SLM-P3 — TYPE 1 (2) — SERIAL # 130927046
CALIBRATOR: BSWA CA 114 — SERIAL # 480151
CALIBRATION CHECK — PRE-TEST ____ dBA SPL — POST-TEST ____ dBA SPL — WINDSCRN YES

SETTINGS: A-WTD (SLOW) FAST FRONTAL RANDOM ANSI OTHER: ____

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
7-8 (ST4)	11:56	12:11	59.3	74.3	55.2				

COMMENTS: READING TAKE ON WEST SIDE OF SIERRA CANYON SCHOOL ATHLETIC BUILDING, ON CAMPUS.

SOURCE INFO AND TRAFFIC COUNTS

PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL (OTHER: STUDENTS PASSING)
ROADWAY TYPE: — DIST. TO RDWY C/L OR EOP:

TRAFFIC COUNT DURATION: ____ MIN

COUNT 1 (OR RDWY 1)

DIRECTION	SPEED NB/EB	SPEED SB/WB	MIN NB/EB	MIN SB/WB
AUTOS				
MED TRKS				
HVY TRKS				
BUSES				
MOTRCLS				

IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE ____

COUNT 2 (OR RDWY 2)

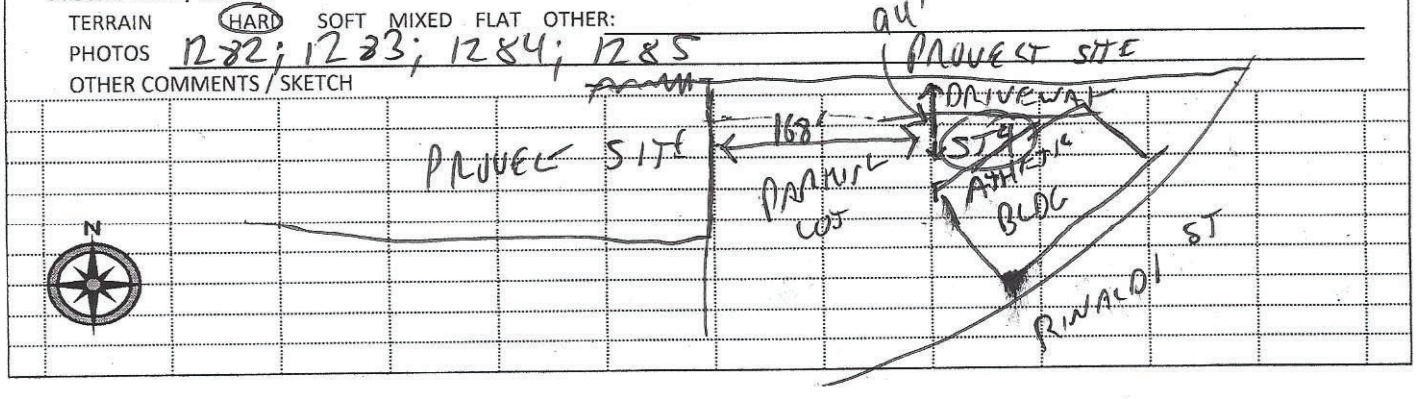
SPEED NB/EB	SPEED SB/WB	MIN NB/EB	MIN SB/WB

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING (DIST. TRAFFIC (LIST RDWYS BELOW)) DISTD GARDENERS/LANDSCAPING NOISE
OTHER: TRAFFIC ON RINALDI ST.; OCCASIONAL CAR PASSING THROUGH PARKING LOT; SOME AUDIBLE NOISE FROM ATHLETIC BLDG. HVAC UNITS

DESCRIPTION / SKETCH

TERRAIN (HARD) SOFT MIXED FLAT OTHER:
PHOTOS: 1282; 1283; 1284; 1285
OTHER COMMENTS / SKETCH



DUDEK

FIELD NOISE MEASUREMENT DATA

LADWP

PROJECT: DESOTO STORAGE TANKS — PROJECT #: 10649.27

SITE ID:

SITE ADDRESS: — OBSERVER(S): PETE VITAR

START DATE: 2/12/19 — END DATE: 2/12/19

START TIME: — END TIME:

METEOROLOGICAL CONDITIONS

TEMP: 53 F — HUMIDITY: 35 % R.H. — WIND: (CALM) LIGHT MODERATE VARIABLE STEADY GUSTY

WINDSPD: MPH — DIR. N NE E SE S SW W NW

SKY: CLEAR OVRCAST (PRTLY CLDY) FOG RAIN

ACOUSTIC MEASUREMENTS

MEAS. INSTRUMENT: PICCOLO SLM-3 — TYPE 1 (2) — SERIAL # 1403170041

CALIBRATOR: CSWA CA 114 — SERIAL # 480151

CALIBRATION CHECK — PRE-TEST: ____ dBA SPL — POST-TEST: ____ dBA SPL — WINDSCRN: YES

SETTINGS: A-WTD (SLOW) FAST FRONTAL RANDOM ANSI OTHER:

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
ST-5 1-2	9:31	9:46	57.3	65.9	51.7				

COMMENTS: READING TAKEN AT BACK PROPERTY LINE OF 11100 LURLINE AVE. (RESIDENTIAL); PRIMARY NOISE SOURCE IS TRAFFIC ON RINALDI ST.; SECONDARY IS TRAFFIC ON I-18 FREEWAY

SOURCE INFO AND TRAFFIC COUNTS

PRIMARY NOISE SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:

ROADWAY TYPE: ASPHALT — DIST. TO RDWY (OR EOP): APX. 75' FROM RINALDI EOP

TRAFFIC COUNT DURATION: 1 MIN — SPEED ____ MIN — SPEED

COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 (OR RDWY 2)	NB/EB	SB/WB	NB/EB	SB/WB
AUTOS										
MED TRKS										
HVY TRKS										
BUSES										
MOTRCLS										

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE

POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS (BIRDS) DIST. INDUSTRIAL

DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE

OTHER:

DESCRIPTION / SKETCH

TERRAIN: (HARD) SOFT MIXED FLAT OTHER:

PHOTOS: 3697, 3698, 3699, 3700

OTHER COMMENTS / SKETCH

DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT LADWP DE SOTO STORAGE TANKS PROJECT # 10649.27
SITE ID
SITE ADDRESS OBSERVER(S) PETE VITAR
START DATE 2/12/19 END DATE 2/12/19
START TIME END TIME

METEOROLOGICAL CONDITIONS
TEMP 57 F HUMIDITY 28 % R.H. WIND (CALM) LIGHT MODERATE
WINDSPD MPH DIR. N NE E SE S SW W NW VARIABLE STEADY GUSTY
SKY SUNNY CLEAR OVRCAST (PRTLY CLDY) FOG RAIN

ACOUSTIC MEASUREMENTS
MEAS. INSTRUMENT PICCOLO SLM-3 TYPE 1 (2) SERIAL # 1403170041
CALIBRATOR BSWA CA 114 SERIAL # 480151
CALIBRATION CHECK PRE-TEST dBA SPL POST-TEST dBA SPL WINDSCRN YES

SETTINGS A-WTD (SLOW) FAST FRONTAL RANDOM ANSI OTHER:

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
576 3-4	10:00	16:15	71.6	85.7	54.9				

COMMENTS
READING TAKEN ACCROSS STREET (~~FROM~~ EAST SIDE OF DE SOTO AVE) FROM 10925 DE SOTO AVE (RESIDENTIAL); PRIMARY NOISE SOURCE IS TRAFFIC ON DE SOTO AVE

SOURCE INFO AND TRAFFIC COUNTS
PRIMARY NOISE SOURCE (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT DIST. TO RDWY C/L OR EOP: 1'
TRAFFIC COUNT DURATION: 15 MIN SPEED

COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB
AUTOS				
MED TRKS				
HVY TRKS				
BUSES				
MOTRCLS				

IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE ✓

COUNT 2 (OR RDWY 2)	NB/EB	SB/WB	NB/EB	SB/WB

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
OTHER:

DESCRIPTION / SKETCH
TERRAIN (HARD) SOFT MIXED FLAT OTHER:
PHOTOS 3702; 3703; 3704; 3705
OTHER COMMENTS / SKETCH

APPENDIX E-2

Construction Noise Modeling Input and Output

Report date: 10/2/2019
Case Description: De Soto Tanks EIR - Demolition

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Source - Receiver 200'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	200	0
Concrete Saw	No	20		89.6	200	0
Crane	No	16		80.6	250	0
All Other Equipment > 5 HP	No	50	85		250	0
Man Lift	No	20		74.7	300	0
Generator	No	50		80.6	350	0
Dozer	No	40		81.7	300	0
Front End Loader	No	40		79.1	400	0
Tractor	No	40	84		300	0

Results

Equipment	Calculated (dBA) *Lmax	Leq	Noise Limits (dBA) Day Lmax	Leq	Evening Lmax	Leq
Compressor (air)	65.6	61.6	N/A	N/A	N/A	N/A
Concrete Saw	77.5	70.5	N/A	N/A	N/A	N/A
Crane	66.6	58.6	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	71	68	N/A	N/A	N/A	N/A
Man Lift	59.1	52.1	N/A	N/A	N/A	N/A
Generator	63.7	60.7	N/A	N/A	N/A	N/A
Dozer	66.1	62.1	N/A	N/A	N/A	N/A
Front End Loader	61	57.1	N/A	N/A	N/A	N/A
Tractor	68.4	64.5	N/A	N/A	N/A	N/A
Total	77.5	74.2	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Typical Source - Receiver 300'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	300	0
Concrete Saw	No	20		89.6	300	0
Crane	No	16		80.6	300	0
All Other Equipment > 5 HP	No	50	85		300	0
Man Lift	No	20		74.7	300	0
Generator	No	50		80.6	300	0
Dozer	No	40		81.7	300	0
Front End Loader	No	40		79.1	300	0
Tractor	No	40	84		300	0

Results

		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)		62.1	58.1	N/A	N/A	N/A	N/A
Concrete Saw		74	67	N/A	N/A	N/A	N/A
Crane		65	57	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		69.4	66.4	N/A	N/A	N/A	N/A
Man Lift		59.1	52.1	N/A	N/A	N/A	N/A
Generator		65.1	62.1	N/A	N/A	N/A	N/A
Dozer		66.1	62.1	N/A	N/A	N/A	N/A
Front End Loader		63.5	59.6	N/A	N/A	N/A	N/A
Tractor		68.4	64.5	N/A	N/A	N/A	N/A
	Total	74	73	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Source - School	Residential	65	60	55

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Compressor (air)	No	40		77.7	120	0
Concrete Saw	No	20		89.6	150	0
Crane	No	16		80.6	150	0
All Other Equipment > 5 HP	No	50	85		120	0
Man Lift	No	20		74.7	120	0
Generator	No	50		80.6	200	0
Dozer	No	40		81.7	150	0
Front End Loader	No	40		79.1	150	0
Tractor	No	40	84		150	0

Results

		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)		70.1	66.1	N/A	N/A	N/A	N/A
Concrete Saw		80	73	N/A	N/A	N/A	N/A
Crane		71	63	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		77.4	74.4	N/A	N/A	N/A	N/A
Man Lift		67.1	60.1	N/A	N/A	N/A	N/A
Generator		68.6	65.6	N/A	N/A	N/A	N/A
Dozer		72.1	68.1	N/A	N/A	N/A	N/A
Front End Loader		69.6	65.6	N/A	N/A	N/A	N/A
Tractor		74.5	70.5	N/A	N/A	N/A	N/A
	Total	80	79.6	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical Source - School	Residential	65	60	55

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Compressor (air)	No	40		77.7	260	0
Concrete Saw	No	20		89.6	260	0

Crane	No	16		80.6	260	0
All Other Equipment > 5 HP	No	50	85		260	0
Man Lift	No	20		74.7	260	0
Generator	No	50		80.6	260	0
Dozer	No	40		81.7	260	0
Front End Loader	No	40		79.1	260	0
Tractor	No	40	84		260	0

			Results			
	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	63.3	59.4	N/A	N/A	N/A	N/A
Concrete Saw	75.3	68.3	N/A	N/A	N/A	N/A
Crane	66.2	58.3	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	70.7	67.7	N/A	N/A	N/A	N/A
Man Lift	60.4	53.4	N/A	N/A	N/A	N/A
Generator	66.3	63.3	N/A	N/A	N/A	N/A
Dozer	67.3	63.4	N/A	N/A	N/A	N/A
Front End Loader	64.8	60.8	N/A	N/A	N/A	N/A
Tractor	69.7	65.7	N/A	N/A	N/A	N/A
Total	75.3	74.2	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 10/2/2019
Case Description: De Soto Tanks EIR - Excavation

				---- Receptor #1 ----
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Source - Residence 300'	Residential	65	60	55

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Auger Drill Rig	No	20		84.4	300	0
Concrete Mixer Truck	No	40		78.8	300	0
Crane	No	16		80.6	350	0
Excavator	No	40		80.7	400	0
Generator	No	50		80.6	350	0
All Other Equipment > 5 HP	No	50	85		400	0
Pumps	No	50		80.9	500	0
Pumps	No	50		80.9	350	0
Dozer	No	40		81.7	300	0
Front End Loader	No	40		79.1	350	0
Front End Loader	No	40		79.1	300	0

			Results			
	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Auger Drill Rig	68.8	61.8	N/A	N/A	N/A	N/A
Concrete Mixer Truck	63.2	59.3	N/A	N/A	N/A	N/A
Crane	63.6	55.7	N/A	N/A	N/A	N/A
Excavator	62.6	58.7	N/A	N/A	N/A	N/A

Generator		63.7	60.7	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		66.9	63.9	N/A	N/A	N/A	N/A
Pumps		60.9	57.9	N/A	N/A	N/A	N/A
Pumps		64	61	N/A	N/A	N/A	N/A
Dozer		66.1	62.1	N/A	N/A	N/A	N/A
Front End Loader		62.2	58.2	N/A	N/A	N/A	N/A
Front End Loader		63.5	59.6	N/A	N/A	N/A	N/A
	Total	68.8	70.9	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical Source - Residence 500'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Auger Drill Rig	No	20		84.4	500	0
Concrete Mixer Truck	No	40		78.8	500	0
Crane	No	16		80.6	550	0
Excavator	No	40		80.7	600	0
Generator	No	50		80.6	550	0
All Other Equipment > 5 HP	No	50	85		600	0
Pumps	No	50		80.9	600	0
Pumps	No	50		80.9	550	0
Dozer	No	40		81.7	500	0
Front End Loader	No	40		79.1	550	0
Front End Loader	No	40		79.1	500	0

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Auger Drill Rig		64.4	57.4	N/A	N/A	N/A	N/A
Concrete Mixer Truck		58.8	54.8	N/A	N/A	N/A	N/A
Crane		59.7	51.8	N/A	N/A	N/A	N/A
Excavator		59.1	55.1	N/A	N/A	N/A	N/A
Generator		59.8	56.8	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		63.4	60.4	N/A	N/A	N/A	N/A
Pumps		59.4	56.3	N/A	N/A	N/A	N/A
Pumps		60.1	57.1	N/A	N/A	N/A	N/A
Dozer		61.7	57.7	N/A	N/A	N/A	N/A
Front End Loader		58.3	54.3	N/A	N/A	N/A	N/A
Front End Loader		54	50	N/A	N/A	N/A	N/A
	Total	64.4	67	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Source - School	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Auger Drill Rig	No	20		84.4	100	0
Concrete Mixer Truck	No	40		78.8	150	0
Crane	No	16		80.6	150	0

Excavator	No	40		80.7	100	0
Generator	No	50		80.6	200	0
All Other Equipment > 5 HP	No	50	85		150	0
Pumps	No	50		80.9	200	0
Pumps	No	50		80.9	250	0
Dozer	No	40		81.7	200	0
Front End Loader	No	40		79.1	300	0
Front End Loader	No	40		79.1	150	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Auger Drill Rig	78.3	71.3	N/A	N/A	N/A	N/A
Concrete Mixer Truck	69.3	65.3	N/A	N/A	N/A	N/A
Crane	71	63	N/A	N/A	N/A	N/A
Excavator	74.7	70.7	N/A	N/A	N/A	N/A
Generator	68.6	65.6	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	75.5	72.4	N/A	N/A	N/A	N/A
Pumps	68.9	65.9	N/A	N/A	N/A	N/A
Pumps	67	64	N/A	N/A	N/A	N/A
Dozer	69.6	65.6	N/A	N/A	N/A	N/A
Front End Loader	63.5	59.6	N/A	N/A	N/A	N/A
Front End Loader	64.5	60.5	N/A	N/A	N/A	N/A
Total	78.3	78.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical Source - School	Residential	65	60	55

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Auger Drill Rig	No	20		84.4	260	0
Concrete Mixer Truck	No	40		78.8	260	0
Crane	No	16		80.6	260	0
Excavator	No	40		80.7	260	0
Generator	No	50		80.6	260	0
All Other Equipment > 5 HP	No	50	85		260	0
Pumps	No	50		80.9	260	0
Pumps	No	50		80.9	260	0
Dozer	No	40		81.7	260	0
Front End Loader	No	40		79.1	260	0
Front End Loader	No	40		79.1	260	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Auger Drill Rig	70	63.1	N/A	N/A	N/A	N/A
Concrete Mixer Truck	64.5	60.5	N/A	N/A	N/A	N/A
Crane	66.2	58.3	N/A	N/A	N/A	N/A
Excavator	66.4	62.4	N/A	N/A	N/A	N/A
Generator	66.3	63.3	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	70.7	67.7	N/A	N/A	N/A	N/A
Pumps	66.6	63.6	N/A	N/A	N/A	N/A
Pumps	66.6	63.6	N/A	N/A	N/A	N/A
Dozer	67.3	63.4	N/A	N/A	N/A	N/A

Front End Loader		64.8	60.8	N/A	N/A	N/A	N/A
Front End Loader		59.7	55.7	N/A	N/A	N/A	N/A
	Total	70.7	73.6	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 10/2/2019
Case Description: De Soto Tanks EIR - Storage Tank Construction

				---- Receptor #1 ----			
		Baselines (dBA)					
Description	Land Use	Daytime	Evening	Night			
Nearest Source - Residence 300'	Residential	65	60	55			

			Equipment Spec Lmax	Actual Lmax	Receptor Distance	Estimated Shielding
Description	Impact Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Compressor (air)	No	40		77.7	300	0
Concrete Mixer Truck	No	40		78.8	300	0
Crane	No	16		80.6	400	0
Man Lift	No	20		74.7	400	0
Generator	No	50		80.6	500	0
Grader	No	40	85		350	0
Compactor (ground)	No	20		83.2	300	0
Pumps	No	50		80.9	400	0
Pumps	No	50		80.9	350	0
Pumps	No	50		80.9	300	0
Roller	No	20		80	350	0
Dozer	No	40		81.7	400	0
Front End Loader	No	40		79.1	400	0
Backhoe	No	40		77.6	350	0
All Other Equipment > 5 HP	No	50	85		300	0
Welder / Torch	No	40		74	350	0

			Results			
	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	62.1	58.1	N/A	N/A	N/A	N/A
Concrete Mixer Truck	63.2	59.3	N/A	N/A	N/A	N/A
Crane	62.5	54.5	N/A	N/A	N/A	N/A
Man Lift	56.6	49.6	N/A	N/A	N/A	N/A
Generator	60.6	57.6	N/A	N/A	N/A	N/A
Grader	68.1	64.1	N/A	N/A	N/A	N/A
Compactor (ground)	67.7	60.7	N/A	N/A	N/A	N/A
Pumps	62.9	59.9	N/A	N/A	N/A	N/A
Pumps	64	61	N/A	N/A	N/A	N/A
Pumps	65.4	62.4	N/A	N/A	N/A	N/A
Roller	63.1	56.1	N/A	N/A	N/A	N/A
Dozer	63.6	59.6	N/A	N/A	N/A	N/A
Front End Loader	61	57.1	N/A	N/A	N/A	N/A
Backhoe	60.7	56.7	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	69.4	66.4	N/A	N/A	N/A	N/A
Welder / Torch	57.1	53.1	N/A	N/A	N/A	N/A
Total	69.4	72.3	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Typical Source - Residence 500'	Residential	65	60	55

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	500	0
Concrete Mixer Truck	No	40		78.8	500	0
Crane	No	16		80.6	600	0
Man Lift	No	20		74.7	600	0
Generator	No	50		80.6	600	0
Grader	No	40	85		550	0
Compactor (ground)	No	20		83.2	500	0
Pumps	No	50		80.9	600	0
Pumps	No	50		80.9	550	0
Pumps	No	50		80.9	500	0
Roller	No	20		80	600	0
Dozer	No	40		81.7	550	0
Front End Loader	No	40		79.1	600	0
Backhoe	No	40		77.6	550	0
All Other Equipment > 5 HP	No	50	85		600	0
Welder / Torch	No	40		74	550	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	57.7	53.7	N/A	N/A	N/A	N/A
Concrete Mixer Truck	58.8	54.8	N/A	N/A	N/A	N/A
Crane	59	51	N/A	N/A	N/A	N/A
Man Lift	53.1	46.1	N/A	N/A	N/A	N/A
Generator	59	56	N/A	N/A	N/A	N/A
Grader	64.2	60.2	N/A	N/A	N/A	N/A
Compactor (ground)	63.2	56.2	N/A	N/A	N/A	N/A
Pumps	59.4	56.3	N/A	N/A	N/A	N/A
Pumps	60.1	57.1	N/A	N/A	N/A	N/A
Pumps	60.9	57.9	N/A	N/A	N/A	N/A
Roller	58.4	51.4	N/A	N/A	N/A	N/A
Dozer	60.8	56.9	N/A	N/A	N/A	N/A
Front End Loader	57.5	53.5	N/A	N/A	N/A	N/A
Backhoe	56.7	52.8	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	63.4	60.4	N/A	N/A	N/A	N/A
Welder / Torch	53.2	49.2	N/A	N/A	N/A	N/A
Total	64.2	68	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Source - School	Residential	65	60	55

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	300	0
Concrete Mixer Truck	No	40		78.8	300	0
Crane	No	16		80.6	325	0

Man Lift	No	20		74.7	350	0
Generator	No	50		80.6	500	0
Grader	No	40	85		375	0
Compactor (ground)	No	20		83.2	500	0
Pumps	No	50		80.9	400	0
Pumps	No	50		80.9	500	0
Pumps	No	50		80.9	600	0
Roller	No	20		80	400	0
Dozer	No	40		81.7	350	0
Front End Loader	No	40		79.1	500	0
Backhoe	No	40		77.6	400	0
All Other Equipment > 5 HP	No	50	85		350	0
Welder / Torch	No	40		74	500	0

				Results			
		Calculated (dBA)			Noise Limits (dBA)		
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)		62.1	58.1	N/A	N/A	N/A	N/A
Concrete Mixer Truck		63.2	59.3	N/A	N/A	N/A	N/A
Crane		64.3	56.3	N/A	N/A	N/A	N/A
Man Lift		57.8	50.8	N/A	N/A	N/A	N/A
Generator		60.6	57.6	N/A	N/A	N/A	N/A
Grader		67.5	63.5	N/A	N/A	N/A	N/A
Compactor (ground)		63.2	56.2	N/A	N/A	N/A	N/A
Pumps		62.9	59.9	N/A	N/A	N/A	N/A
Pumps		60.9	57.9	N/A	N/A	N/A	N/A
Pumps		59.4	56.3	N/A	N/A	N/A	N/A
Roller		61.9	54.9	N/A	N/A	N/A	N/A
Dozer		64.8	60.8	N/A	N/A	N/A	N/A
Front End Loader		59.1	55.1	N/A	N/A	N/A	N/A
Backhoe		59.5	55.5	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		68.1	65.1	N/A	N/A	N/A	N/A
Welder / Torch		54	50	N/A	N/A	N/A	N/A
	Total	68.1	71.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

				---- Receptor #4 ----
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical Source - School	Residential	65	60	55

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Compressor (air)	No	40		77.7	460	0
Concrete Mixer Truck	No	40		78.8	460	0
Crane	No	16		80.6	460	0
Man Lift	No	20		74.7	460	0
Generator	No	50		80.6	460	0
Grader	No	40	85		460	0
Compactor (ground)	No	20		83.2	460	0
Pumps	No	50		80.9	460	0
Pumps	No	50		80.9	460	0
Pumps	No	50		80.9	460	0
Roller	No	20		80	460	0
Dozer	No	40		81.7	460	0
Front End Loader	No	40		79.1	460	0
Backhoe	No	40		77.6	460	0
All Other Equipment > 5 HP	No	50	85		460	0

Welder / Torch	No	40		74	460	0

	Results					
	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	58.4	54.4	N/A	N/A	N/A	N/A
Concrete Mixer Truck	59.5	55.5	N/A	N/A	N/A	N/A
Crane	61.3	53.3	N/A	N/A	N/A	N/A
Man Lift	55.4	48.4	N/A	N/A	N/A	N/A
Generator	61.4	58.3	N/A	N/A	N/A	N/A
Grader	65.7	61.7	N/A	N/A	N/A	N/A
Compactor (ground)	64	57	N/A	N/A	N/A	N/A
Pumps	61.7	58.7	N/A	N/A	N/A	N/A
Pumps	61.7	58.7	N/A	N/A	N/A	N/A
Pumps	61.7	58.7	N/A	N/A	N/A	N/A
Roller	60.7	53.7	N/A	N/A	N/A	N/A
Dozer	62.4	58.4	N/A	N/A	N/A	N/A
Front End Loader	59.8	55.9	N/A	N/A	N/A	N/A
Backhoe	58.3	54.3	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	65.7	62.7	N/A	N/A	N/A	N/A
Welder / Torch	54.7	50.7	N/A	N/A	N/A	N/A
Total	65.7	69.7	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 10/2/2019
Case Description: De Soto Tanks EIR - Pump Station Construction

		---- Receptor #1 ----		
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Source - Residence 300'	Residential	65	60	55

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Crane	No	16		80.6	400	0
Grader	No	40	85		350	0
Paver	No	50		77.2	400	0
Compactor (ground)	No	20		83.2	300	0
Roller	No	20		80	350	0
Dozer	No	40		81.7	400	0
Front End Loader	No	40		79.1	400	0
Backhoe	No	40		77.6	350	0

	Results					
	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	62.5	54.5	N/A	N/A	N/A	N/A
Grader	68.1	64.1	N/A	N/A	N/A	N/A
Paver	59.2	56.1	N/A	N/A	N/A	N/A
Compactor (ground)	67.7	60.7	N/A	N/A	N/A	N/A
Roller	63.1	56.1	N/A	N/A	N/A	N/A
Dozer	63.6	59.6	N/A	N/A	N/A	N/A

Front End Loader		61	57.1	N/A	N/A	N/A	N/A
Backhoe		60.7	56.7	N/A	N/A	N/A	N/A
	Total	68.1	68.3	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Typical Source - Residence 500'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	600	0
Grader	No	40	85		550	0
Paver	No	50		77.2	600	0
Compactor (ground)	No	20		83.2	500	0
Roller	No	20		80	600	0
Dozer	No	40		81.7	550	0
Front End Loader	No	40		79.1	600	0
Backhoe	No	40		77.6	550	0

		Results Calculated (dBA)		Noise Limits (dBA) Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane		59	51	N/A	N/A	N/A	N/A
Grader		64.2	60.2	N/A	N/A	N/A	N/A
Paver		55.6	52.6	N/A	N/A	N/A	N/A
Compactor (ground)		63.2	56.2	N/A	N/A	N/A	N/A
Roller		58.4	51.4	N/A	N/A	N/A	N/A
Dozer		60.8	56.9	N/A	N/A	N/A	N/A
Front End Loader		57.5	53.5	N/A	N/A	N/A	N/A
Backhoe		56.7	52.8	N/A	N/A	N/A	N/A
	Total	64.2	64.5	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Source - School	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	100	0
Grader	No	40	85		125	0
Paver	No	50		77.2	125	0
Compactor (ground)	No	20		83.2	150	0
Roller	No	20		80	125	0
Dozer	No	40		81.7	150	0
Front End Loader	No	40		79.1	125	0
Backhoe	No	40		77.6	125	0

	Results Calculated (dBA)		Noise Limits (dBA) Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	74.5	66.6	N/A	N/A	N/A	N/A

Grader		77	73.1	N/A	N/A	N/A	N/A
Paver		69.3	66.3	N/A	N/A	N/A	N/A
Compactor (ground)		73.7	66.7	N/A	N/A	N/A	N/A
Roller		72	65.1	N/A	N/A	N/A	N/A
Dozer		72.1	68.1	N/A	N/A	N/A	N/A
Front End Loader		71.2	67.2	N/A	N/A	N/A	N/A
Backhoe		69.6	65.6	N/A	N/A	N/A	N/A
	Total	77	77.2	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical Source - School	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	260	0
Grader	No	40	85		260	0
Paver	No	50		77.2	260	0
Compactor (ground)	No	20		83.2	260	0
Roller	No	20		80	260	0
Dozer	No	40		81.7	260	0
Front End Loader	No	40		79.1	260	0
Backhoe	No	40		77.6	260	0

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane		66.2	58.3	N/A	N/A	N/A	N/A
Grader		70.7	66.7	N/A	N/A	N/A	N/A
Paver		62.9	59.9	N/A	N/A	N/A	N/A
Compactor (ground)		68.9	61.9	N/A	N/A	N/A	N/A
Roller		65.7	58.7	N/A	N/A	N/A	N/A
Dozer		67.3	63.4	N/A	N/A	N/A	N/A
Front End Loader		64.8	60.8	N/A	N/A	N/A	N/A
Backhoe		63.2	59.3	N/A	N/A	N/A	N/A
	Total	70.7	71.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 10/4/2019
Case Description: De Soto Tanks EIR - Pipe Installation

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Source -Receiver 30'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	30	0

Drill Rig Truck	No	20		79.1	40	0
Crane	No	16		80.6	50	0
Excavator	No	40		80.7	75	0
Man Lift	No	20		74.7	85	0
Generator	No	50		80.6	100	0
Pumps	No	50		80.9	125	0
Front End Loader	No	40		79.1	75	0
Backhoe	No	40		77.6	50	0
Welder / Torch	No	40		74	100	0
All Other Equipment > 5 HP	No	50	85		150	0
Concrete Saw	No	20		89.6	125	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	82.1	78.1	N/A	N/A	N/A	N/A
Drill Rig Truck	81.1	74.1	N/A	N/A	N/A	N/A
Crane	80.6	72.6	N/A	N/A	N/A	N/A
Excavator	77.2	73.2	N/A	N/A	N/A	N/A
Man Lift	70.1	63.1	N/A	N/A	N/A	N/A
Generator	74.6	71.6	N/A	N/A	N/A	N/A
Pumps	73	70	N/A	N/A	N/A	N/A
Front End Loader	75.6	71.6	N/A	N/A	N/A	N/A
Backhoe	77.6	73.6	N/A	N/A	N/A	N/A
Welder / Torch	68	64	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	75.5	72.4	N/A	N/A	N/A	N/A
Concrete Saw	81.6	74.6	N/A	N/A	N/A	N/A
Total	82.1	83.8	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical Source - Receiver 200'	Residential	65	60	55

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	200	0
Drill Rig Truck	No	20		79.1	200	0
Crane	No	16		80.6	200	0
Excavator	No	40		80.7	200	0
Man Lift	No	20		74.7	200	0
Generator	No	50		80.6	200	0
Pumps	No	50		80.9	200	0
Front End Loader	No	40		79.1	200	0
Backhoe	No	40		77.6	200	0
Welder / Torch	No	40		74	200	0
All Other Equipment > 5 HP	No	50	85		200	0
Concrete Saw	No	20		89.6	200	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	65.6	61.6	N/A	N/A	N/A	N/A
Drill Rig Truck	67.1	60.1	N/A	N/A	N/A	N/A
Crane	68.5	60.6	N/A	N/A	N/A	N/A
Excavator	68.7	64.7	N/A	N/A	N/A	N/A

Man Lift		62.7	55.7	N/A	N/A	N/A	N/A
Generator		68.6	65.6	N/A	N/A	N/A	N/A
Pumps		68.9	65.9	N/A	N/A	N/A	N/A
Front End Loader		67.1	63.1	N/A	N/A	N/A	N/A
Backhoe		65.5	61.5	N/A	N/A	N/A	N/A
Welder / Torch		62	58	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		73	69.9	N/A	N/A	N/A	N/A
Concrete Saw		77.5	70.5	N/A	N/A	N/A	N/A
	Total	77.5	76	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Source - School	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	100	0
Drill Rig Truck	No	20		79.1	150	0
Crane	No	16		80.6	125	0
Excavator	No	40		80.7	150	0
Man Lift	No	20		74.7	125	0
Generator	No	50		80.6	150	0
Pumps	No	50		80.9	150	0
Front End Loader	No	40		79.1	200	0
Backhoe	No	40		77.6	150	0
Welder / Torch	No	40		74	150	0
All Other Equipment > 5 HP	No	50	85		200	0
Concrete Saw	No	20		89.6	175	0

	Results					
	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	71.6	67.7	N/A	N/A	N/A	N/A
Drill Rig Truck	69.6	62.6	N/A	N/A	N/A	N/A
Crane	72.6	64.6	N/A	N/A	N/A	N/A
Excavator	71.2	67.2	N/A	N/A	N/A	N/A
Man Lift	66.7	59.8	N/A	N/A	N/A	N/A
Generator	71.1	68.1	N/A	N/A	N/A	N/A
Pumps	71.4	68.4	N/A	N/A	N/A	N/A
Front End Loader	67.1	63.1	N/A	N/A	N/A	N/A
Backhoe	68	64	N/A	N/A	N/A	N/A
Welder / Torch	64.5	60.5	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	73	69.9	N/A	N/A	N/A	N/A
Concrete Saw	78.7	71.7	N/A	N/A	N/A	N/A
Total	78.7	77.8	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical Source - School	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)

Compressor (air)	No	40		77.7	300	0
Drill Rig Truck	No	20		79.1	300	0
Crane	No	16		80.6	300	0
Excavator	No	40		80.7	300	0
Man Lift	No	20		74.7	300	0
Generator	No	50		80.6	300	0
Pumps	No	50		80.9	300	0
Front End Loader	No	40		79.1	300	0
Backhoe	No	40		77.6	300	0
Welder / Torch	No	40		74	300	0
All Other Equipment > 5 HP	No	50	85		300	0
Concrete Saw	No	20		89.6	300	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	62.1	58.1	N/A	N/A	N/A	N/A
Drill Rig Truck	63.6	56.6	N/A	N/A	N/A	N/A
Crane	65	57	N/A	N/A	N/A	N/A
Excavator	65.1	61.2	N/A	N/A	N/A	N/A
Man Lift	59.1	52.1	N/A	N/A	N/A	N/A
Generator	65.1	62.1	N/A	N/A	N/A	N/A
Pumps	65.4	62.4	N/A	N/A	N/A	N/A
Front End Loader	63.5	59.6	N/A	N/A	N/A	N/A
Backhoe	62	58	N/A	N/A	N/A	N/A
Welder / Torch	58.4	54.5	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	69.4	66.4	N/A	N/A	N/A	N/A
Concrete Saw	74	67	N/A	N/A	N/A	N/A
Total	74	72.5	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 10/2/2019
Case Description: De Soto Tanks EIR - Flow Control Station

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Nearest Source - Residence 300'	Residential	65	60	55

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Crane	No	16		80.6	400	0
Pumps	No	50		80.9	350	0
Pumps	No	50		80.9	400	0
All Other Equipment > 5 HP	No	50	85		300	0
Welder / Torch	No	40		74	350	0
Man Lift	No	20		74.7	400	0
Excavator	No	40		80.7	350	0
Backhoe	No	40		77.6	400	0
Roller	No	20		80	400	0
Generator	No	50		80.6	350	0
Compactor (ground)	No	20		83.2	400	0
Front End Loader	No	40		79.1	400	0

Tractor	No	40	84	350	0	

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	62.5	54.5	N/A	N/A	N/A	N/A
Pumps	64	61	N/A	N/A	N/A	N/A
Pumps	62.9	59.9	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	69.4	66.4	N/A	N/A	N/A	N/A
Welder / Torch	57.1	53.1	N/A	N/A	N/A	N/A
Man Lift	56.6	49.6	N/A	N/A	N/A	N/A
Excavator	63.8	59.8	N/A	N/A	N/A	N/A
Backhoe	59.5	55.5	N/A	N/A	N/A	N/A
Roller	61.9	54.9	N/A	N/A	N/A	N/A
Generator	63.7	60.7	N/A	N/A	N/A	N/A
Compactor (ground)	65.2	58.2	N/A	N/A	N/A	N/A
Front End Loader	61	57.1	N/A	N/A	N/A	N/A
Tractor	67.1	63.1	N/A	N/A	N/A	N/A
Total	69.4	71.2	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical Source - Residence 500'	Residential	65	60	55

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	600	0
Pumps	No	50		80.9	550	0
Pumps	No	50		80.9	600	0
All Other Equipment > 5 HP	No	50	85		500	0
Welder / Torch	No	40		74	600	0
Man Lift	No	20		74.7	550	0
Excavator	No	40		80.7	600	0
Backhoe	No	40		77.6	500	0
Roller	No	20		80	600	0
Generator	No	50		80.6	500	0
Compactor (ground)	No	20		83.2	600	0
Front End Loader	No	40		79.1	550	0
Tractor	No	40	84		600	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	59	51	N/A	N/A	N/A	N/A
Pumps	60.1	57.1	N/A	N/A	N/A	N/A
Pumps	59.4	56.3	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	65	62	N/A	N/A	N/A	N/A
Welder / Torch	52.4	48.4	N/A	N/A	N/A	N/A
Man Lift	53.9	46.9	N/A	N/A	N/A	N/A
Excavator	59.1	55.1	N/A	N/A	N/A	N/A
Backhoe	57.6	53.6	N/A	N/A	N/A	N/A
Roller	58.4	51.4	N/A	N/A	N/A	N/A
Generator	60.6	57.6	N/A	N/A	N/A	N/A
Compactor (ground)	61.6	54.7	N/A	N/A	N/A	N/A
Front End Loader	58.3	54.3	N/A	N/A	N/A	N/A

Tractor		62.4	58.4	N/A	N/A	N/A	N/A
	Total	65	67.2	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Source - School	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	100	0
Pumps	No	50		80.9	125	0
Pumps	No	50		80.9	150	0
All Other Equipment > 5 HP	No	50	85		150	0
Welder / Torch	No	40		74	125	0
Man Lift	No	20		74.7	150	0
Excavator	No	40		80.7	125	0
Backhoe	No	40		77.6	125	0
Roller	No	20		80	120	0
Generator	No	50		80.6	175	0
Compactor (ground)	No	20		83.2	150	0
Front End Loader	No	40		79.1	150	0
Tractor	No	40	84		175	0

		Calculated (dBA)		Results Noise Limits (dBA) Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane		74.5	66.6	N/A	N/A	N/A	N/A
Pumps		73	70	N/A	N/A	N/A	N/A
Pumps		71.4	68.4	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		75.5	72.4	N/A	N/A	N/A	N/A
Welder / Torch		66	62.1	N/A	N/A	N/A	N/A
Man Lift		65.2	58.2	N/A	N/A	N/A	N/A
Excavator		72.8	68.8	N/A	N/A	N/A	N/A
Backhoe		69.6	65.6	N/A	N/A	N/A	N/A
Roller		72.4	65.4	N/A	N/A	N/A	N/A
Generator		69.7	66.7	N/A	N/A	N/A	N/A
Compactor (ground)		73.7	66.7	N/A	N/A	N/A	N/A
Front End Loader		69.6	65.6	N/A	N/A	N/A	N/A
Tractor		73.1	69.1	N/A	N/A	N/A	N/A
	Total	75.5	78.9	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical Source - School	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	260	0
Pumps	No	50		80.9	260	0
Pumps	No	50		80.9	260	0
All Other Equipment > 5 HP	No	50	85		260	0
Welder / Torch	No	40		74	260	0

Man Lift	No	20		74.7	260	0
Excavator	No	40		80.7	260	0
Backhoe	No	40		77.6	260	0
Roller	No	20		80	260	0
Generator	No	50		80.6	260	0
Compactor (ground)	No	20		83.2	260	0
Front End Loader	No	40		79.1	260	0
Tractor	No	40	84		260	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	66.2	58.3	N/A	N/A	N/A	N/A
Pumps	66.6	63.6	N/A	N/A	N/A	N/A
Pumps	66.6	63.6	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	70.7	67.7	N/A	N/A	N/A	N/A
Welder / Torch	59.7	55.7	N/A	N/A	N/A	N/A
Man Lift	60.4	53.4	N/A	N/A	N/A	N/A
Excavator	66.4	62.4	N/A	N/A	N/A	N/A
Backhoe	63.2	59.3	N/A	N/A	N/A	N/A
Roller	65.7	58.7	N/A	N/A	N/A	N/A
Generator	66.3	63.3	N/A	N/A	N/A	N/A
Compactor (ground)	68.9	61.9	N/A	N/A	N/A	N/A
Front End Loader	64.8	60.8	N/A	N/A	N/A	N/A
Tractor	69.7	65.7	N/A	N/A	N/A	N/A
Total	70.7	73.7	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 10/2/2019
Case Description: De Soto Tanks EIR - Finish Grading / Site Improvements

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Source - Residence 300'	Residential	65	60	55

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	400	0
Grader	No	40	85		350	0
Paver	No	50		77.2	400	0
Compactor (ground)	No	20		83.2	300	0
Roller	No	20		80	350	0
Dozer	No	40		81.7	400	0
Front End Loader	No	40		79.1	350	0
Backhoe	No	40		77.6	400	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	62.5	54.5	N/A	N/A	N/A	N/A
Grader	68.1	64.1	N/A	N/A	N/A	N/A

Paver		59.2	56.1	N/A	N/A	N/A	N/A
Compactor (ground)		67.7	60.7	N/A	N/A	N/A	N/A
Roller		63.1	56.1	N/A	N/A	N/A	N/A
Dozer		63.6	59.6	N/A	N/A	N/A	N/A
Front End Loader		62.2	58.2	N/A	N/A	N/A	N/A
Backhoe		59.5	55.5	N/A	N/A	N/A	N/A
	Total	68.1	68.3	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical Source - Residence 500'	Residential	65	60	55

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Crane	No	16		80.6	600	0
Grader	No	40	85		550	0
Paver	No	50		77.2	600	0
Compactor (ground)	No	20		83.2	500	0
Roller	No	20		80	600	0
Dozer	No	40		81.7	550	0
Front End Loader	No	40		79.1	600	0
Backhoe	No	40		77.6	500	0

			Results			
	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	59	51	N/A	N/A	N/A	N/A
Grader	60.1	57.1	N/A	N/A	N/A	N/A
Paver	59.4	56.3	N/A	N/A	N/A	N/A
Compactor (ground)	65	62	N/A	N/A	N/A	N/A
Roller	52.4	48.4	N/A	N/A	N/A	N/A
Dozer	53.9	46.9	N/A	N/A	N/A	N/A
Front End Loader	59.1	55.1	N/A	N/A	N/A	N/A
Backhoe	57.6	53.6	N/A	N/A	N/A	N/A
Total	65	67.2	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Source - School	Residential	65	60	55

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Crane	No	16		80.6	100	0
Grader	No	40	85		125	0
Paver	No	50		77.2	150	0
Compactor (ground)	No	20		83.2	150	0
Roller	No	20		80	125	0
Dozer	No	40		81.7	150	0
Front End Loader	No	40		79.1	125	0
Backhoe	No	40		77.6	125	0

Results

		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane		74.5	66.6	N/A	N/A	N/A	N/A
Grader		73	70	N/A	N/A	N/A	N/A
Paver		71.4	68.4	N/A	N/A	N/A	N/A
Compactor (ground)		75.5	72.4	N/A	N/A	N/A	N/A
Roller		66	62.1	N/A	N/A	N/A	N/A
Dozer		65.2	58.2	N/A	N/A	N/A	N/A
Front End Loader		72.8	68.8	N/A	N/A	N/A	N/A
Backhoe		69.6	65.6	N/A	N/A	N/A	N/A
	Total	75.5	78.9	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical Source - School	Residential	65	60	55

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Crane	No	16		80.6	260	0
Grader	No	40	85		260	0
Paver	No	50		77.2	260	0
Compactor (ground)	No	20		83.2	260	0
Roller	No	20		80	260	0
Dozer	No	40		81.7	260	0
Front End Loader	No	40		79.1	260	0
Backhoe	No	40		77.6	260	0

Results

		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane		66.2	58.3	N/A	N/A	N/A	N/A
Grader		66.6	63.6	N/A	N/A	N/A	N/A
Paver		66.6	63.6	N/A	N/A	N/A	N/A
Compactor (ground)		70.7	67.7	N/A	N/A	N/A	N/A
Roller		59.7	55.7	N/A	N/A	N/A	N/A
Dozer		60.4	53.4	N/A	N/A	N/A	N/A
Front End Loader		66.4	62.4	N/A	N/A	N/A	N/A
Backhoe		63.2	59.3	N/A	N/A	N/A	N/A
	Total	70.7	73.7	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

APPENDIX E-3

Operational Noise Calculations

LADWP De Soto Tanks EIR

Operational Noise - Pump Station (Daytime)

Based on e-mails from Applicant, 1 to 3 of 4 pumps would be operational at any one time to meet demand.

Pumps would be enclosed within a masonry building, fitted with vents and with an HVAC system. Assume that building would provide a minimum of 30 dB noise reduction.

Assumed pump noise source level:	99	dBA at 3.28 feet
Assumed HVAC noise source level:	83	dBA at 3.28 feet
Distance to nearest NSLU (School to the south)	100	feet
Distance to the nearest residence:	400	feet

At the school to the south:

Estimated pump noise level with building, assuming 3 pumps operating and HVAC exterior to building

	44.1	dBA Pumps
	53.3	dBA HVAC
	53.8	**dBA Total**

Ambient noise level at the school (from noise measurements):

59.3 dBA L_{eq}

Combined noise levels (ambient plus mechanical):

60.4 dBA L_{eq}

Resulting increase: **1.1 dBA**

At the nearest residence, to the southeast:

Estimated pump noise level with building, assuming 3 pumps operating and HVAC exterior to building

	32.0	dBA Pumps
	41.3	dBA HVAC
	41.8	**dBA Total**

Ambient noise level at the residences (from noise measurements):

57.3 dBA L_{eq}

Combined noise levels (ambient plus mechanical):

57.4 dBA L_{eq}

Resulting increase: **0.1 dBA**

Operational Noise - Pump Station (Nighttime)

Based on e-mails from Applicant, 1 to 3 of 4 pumps would be operational at any one time to meet demand.

Pumps would be enclosed within a masonry building, fitted with vents and with an HVAC system. Assume that building would provide a minimum of 30 dB noise reduction

Assumed pump noise source level:	99	dBA at 3.28 feet	(Interior)
Assumed HVAC noise source level:	83	dBA at 3.28 feet	(Exterior

Distance to the nearest residence: 400 feet

At the nearest residence, to the southeast:

Estimated pump noise level with building, assuming 3 pumps operating and HVAC exterior to building

32.0 dBA Pumps
41.3 dBA HVAC
41.8 dBA Total

Ambient nighttime noise level at the residences (estimated):

46.7 dBA L_{eq}

Combined noise levels (ambient plus mechanical):

47.9 dBA L_{eq}

Resulting increase: **1.2 dBA**

Distance to nearest NSLU (School to the south) 100 feet

At the school to the south:

Estimated pump noise level with building, assuming 3 pumps operating and HVAC exterior to building

44.1 dBA Pumps
53.3 dBA HVAC
53.8 dBA Total

Ambient nighttime noise level at the school (estimated):

48.5 dBA L_{eq}

Combined noise levels (ambient plus mechanical):

54.9 dBA L_{eq}

Resulting increase: **6 dBA**

BUT, this is N/A because the school would not be operational during nighttime hours, typically.

Operational Noise - Generator (Daytime Only)

Emergency Generator (30 minutes per month)

Based upon provided spec's, generator would be housed within an enclosure alongside the pump station building and fitted with a silencer

Assumed generator noise source level: 65.8 dBA at 23 feet (with silencer and enclosure)

Distance to nearest NSLU (School to the south) 100 feet
Distance to the nearest residence: 400 feet

At the school to the south:

Estimated generator noise plus pump noise level with building, assuming 3 pumps operating and HVAC exterior to building

53.0 dBA Generator

53.8 dBA Pumps and HVAC

56.4 dBA Total

Ambient noise level at the school (from noise measurements):

59.3 dBA L_{eq}

Combined noise levels (ambient plus mechanical):

61.1 dBA L_{eq}

Resulting increase: **1.8 dBA**

At the nearest residence, to the southeast:

Estimated generator noise plus pump noise level with building, assuming 3 pumps operating and HVAC exterior to building

41.0 dBA Generator

41.8 dBA Pumps and HVAC

44.4 dBA Total

Ambient noise level at the residences (from noise measurements):

57.3 dBA L_{eq}

Combined noise levels (ambient plus mechanical):

57.5 dBA L_{eq}

Resulting increase: **0.2 dBA**

Engine Silencer Performance Summary

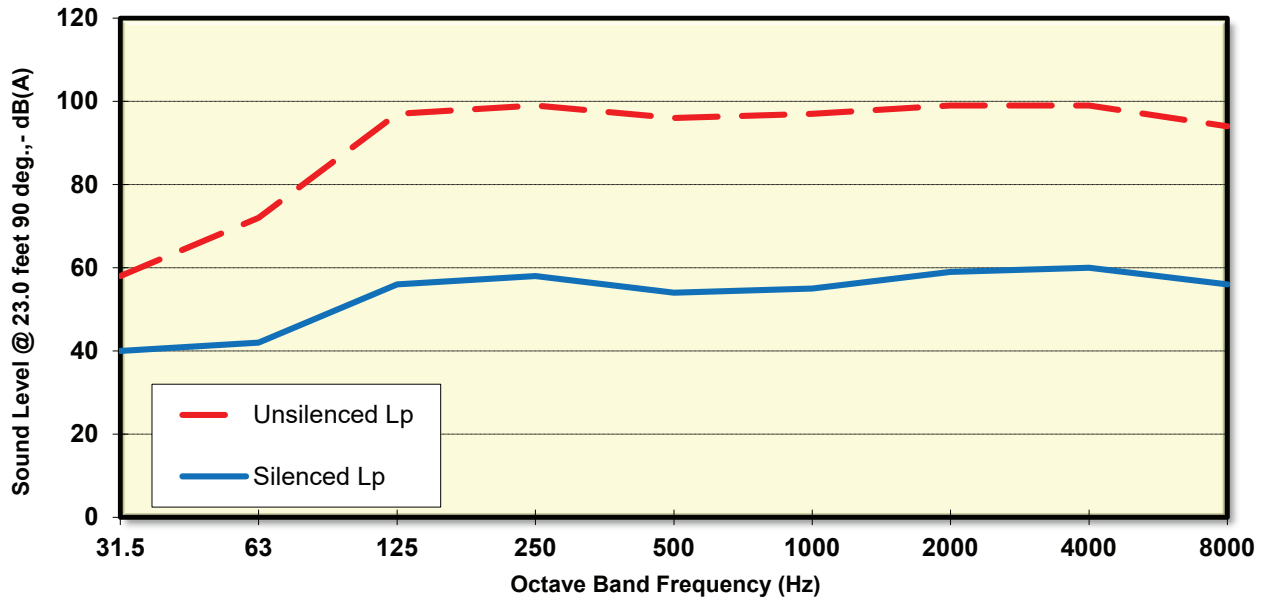
Customer	Rypos	**Date:**	2-Apr-18
Project Name	CAT 3516C extended length ADPF7	**By:**	R. Evans

Engine Details			**Piping Details**	
Engine Make	CAT		Pipe Diameter	
Engine Type	3516C		Straight Pipe Length	
Exhaust Flow Rate	18,805	cfm	Number of Sawcut Elbows	0
Exhaust Temperature	850.0	°F	Number of 90 deg. Long Radius Elbows	0
Max Allowable Backpressure	10	inch WG	Number of 90 deg. Short Radius Elbows	0

Silencer Performance			**Silencer Details for Part Number: 0**		
Silencer Backpressure	5.10	inch WG	No. of Silencers per Engine	1	
Total Backpressure	5.10	inch WG	Inlet Size/Outlet size (NB)	22	inches
Calculated Exhaust Gas Velocity	7129.9	ft/min	Silencer Type & Silencing Grade	Hospital	
Required Sound Level- Lp	70.0	dB(A)	Inlet-Outlet Configuration	Bottom In/Top Out	
Required Lp at:	23.0 feet	90 deg	Silencer Shape	Box	
Predicted Insertion Loss	40.2	dB	Silencer Material	Mild Steel	
Predicted Sound Level	65.8	dB(A)	Silencer Finish	Hi-Temp Gray Paint	

Predicted Silencer Performance Curve- Sound Level @ 23.0 feet 90 deg.,- dB(A)

Frequency Hz	Total	31.5	63	125	250	500	1000	2000	4000	8000
Unsilenced Lp	106.1	58	72	97	99	96	97	99	99	94
Silenced Lp	65.8	40	42	56	58	54	55	59	60	56



Comments:
Extended length ADPF7 with 22" DIA outlet
Backpressure estimates do not include DPF elements, catalyst elements, transfer tubes or external piping.

Sound levels and backpressures are predictions based on typical silencer performance. Actual results will vary depend on a number of factors affecting the individual application & installation. Calculations shown are estimates only and do NOT constitute a warranty.

APPENDIX F

Transportation

- Traffic Counts

INTERSECTION TURNING MOVEMENT COUNTS

T1017

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Chatsworth	PROJECT #:	SC1687
Wed, Apr 25, 18	NORTH & SOUTH:	De Soto	LOCATION #:	1
	EAST & WEST:	SR-118 WB Ramps	CONTROL:	STOP ALL

NOTES:
Queue WL AM

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

☑ All U-Turns to Left Turns

		NORTHBOUND (De Soto)			SOUTHBOUND (De Soto)			EASTBOUND (SR-118 WB Ramps)			WESTBOUND (SR-118 WB Ramps)				U-TURNS				
	LANES:	NL X	NT 1	NR 2	SL 0.5	ST 1.5	SR X	EL X	ET X	ER X	WL 2	WT X	WR 1	TOTAL	NB X	SB X	EB X	WB X	TTL
AM	7:00 AM	1	7	101	0	1	0	0	0	0	375	0	7	492	1	0	0	0	1
	7:15 AM	0	2	135	0	2	0	0	0	0	452	0	1	592	0	0	0	0	0
	7:30 AM	0	5	132	1	2	0	0	0	0	370	0	1	511	0	0	0	0	0
	7:45 AM	0	2	173	1	9	0	0	0	0	372	0	0	557	0	0	0	0	0
	8:00 AM	0	4	153	1	6	0	0	0	0	365	0	1	530	0	0	0	0	0
	8:15 AM	0	6	89	1	4	0	0	0	0	364	0	13	477	0	0	0	0	0
	8:30 AM	0	7	106	0	7	0	0	0	0	323	0	7	450	0	0	0	0	0
	8:45 AM	0	14	105	1	13	0	0	0	0	297	0	3	433	0	0	0	0	0
	9:00 AM	0	5	62	2	7	0	0	0	0	325	0	7	408	0	0	0	0	0
	9:15 AM	0	5	101	1	6	0	0	0	0	254	0	6	373	0	0	0	0	0
	9:30 AM	0	5	106	1	8	0	0	0	0	277	0	7	404	0	0	0	0	0
	9:45 AM	0	5	78	1	6	0	0	0	0	230	0	5	325	0	0	0	0	0
	VOLUMES	1	67	1,341	10	71	0	0	0	0	4,004	0	58	5,552	1	0	0	0	1
	APPROACH %	0%	5%	95%	12%	88%	0%	0%	0%	0%	99%	0%	1%						
	APP/DEPART	1,409	/	125	81	/	4,076	0	/	1,351	4,062	/	0	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	0	13	593	3	19	0	0	0	0	1,559	0	3	2,190					
	APPROACH %	0%	2%	98%	14%	86%	0%	0%	0%	0%	100%	0%	0%						
	PEAK HR FACTOR		0.866			0.550			0.000			0.862		0.925					
	APP/DEPART	606	/	16	22	/	1,578	0	/	596	1,562	/	0	0					
PM	03:00 PM	0	3	139	0	8	0	0	0	0	235	0	10	395	0	0	0	0	0
	3:15 PM	0	1	177	0	20	0	0	0	0	237	0	2	437	0	0	0	0	0
	3:30 PM	0	4	128	0	16	0	0	0	0	223	0	9	380	0	0	0	0	0
	3:45 PM	0	6	149	1	8	0	0	0	0	248	0	4	416	0	0	0	0	0
	4:00 PM	2	4	159	0	9	0	0	0	0	275	0	7	456	2	0	0	0	2
	4:15 PM	0	5	174	0	6	0	0	0	0	221	0	5	411	0	0	0	0	0
	4:30 PM	0	3	163	0	11	0	0	0	0	230	0	1	408	0	0	0	0	0
	4:45 PM	2	1	201	1	4	0	0	0	0	254	0	3	466	2	0	0	0	2
	5:00 PM	2	1	219	1	5	0	0	0	0	257	0	4	489	2	0	0	0	2
	5:15 PM	0	2	225	0	4	0	0	0	0	223	0	2	456	0	0	0	0	0
	5:30 PM	0	1	193	0	5	0	0	0	0	257	0	2	458	0	0	0	0	0
	5:45 PM	0	1	163	0	3	0	0	0	0	258	0	1	426	0	0	0	0	0
	VOLUMES	6	32	2,090	3	99	0	0	0	0	2,918	0	50	5,198	6	0	0	0	6
	APPROACH %	0%	2%	98%	3%	97%	0%	0%	0%	0%	98%	0%	2%						
	APP/DEPART	2,128	/	82	102	/	3,023	0	/	2,093	2,968	/	0	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	4	5	838	2	18	0	0	0	0	991	0	11	1,869					
	APPROACH %	0%	1%	99%	10%	90%	0%	0%	0%	0%	99%	0%	1%						
	PEAK HR FACTOR		0.933			0.833			0.000			0.960		0.956					
	APP/DEPART	847	/	16	20	/	1,013	0	/	840	1,002	/	0	0					

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS					SCHOOL AGE PED				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
PM	3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

City Of Los Angeles

Department Of Transportation

MANUAL TRAFFIC COUNT SUMMARY

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

STREET:
North / Sounth: De Soto

East/West: SR-118 WB Ramps

Day: Wednesday, April 25, 2018 Weather: Sunny

Hours:

School Day: Yes District: I/S CODE:

	N/B	S/B	E/B	W/B
DUAL-WHEELED	232	127	0	541
BIKES	0	1	0	0
BUSES	4	0	0	17

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	175	7:45:00 AM	14	8:45:00 AM	0		453	
PM PK 15 MIN	227	5:15:00 PM	20	3:15:00 PM	0		282	
AM PK HOUR	606	7:15:00 AM	39	8:45:00 AM	0		1578	7:00:00 AM
PM PK HOUR	847	4:45:00 PM	54	3:15:00 PM	0		1005	3:15:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	1	16	541	558
8-9	0	31	453	484
9-10	0	20	347	367
3-4	0	14	593	607
4-5	4	13	697	714
5-6	2	5	800	807
TOTAL	7	99	3431	3537

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	2	14	0	16
8-9	3	30	0	33
9-10	5	27	0	32
3-4	1	52	0	53
4-5	1	30	0	31
5-6	1	17	0	18
TOTAL	13	170	0	183

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
574	0	0	0	0
517	0	0	0	0
399	0	0	0	0
660	0	0	0	0
745	0	0	0	0
825	0	0	0	0
3720	0	0	0	0

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	0	0	0	0
8-9	0	0	0	0
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	0	0	0	0

WESTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	1569	0	9	1578
8-9	1349	0	24	1373
9-10	1086	0	25	1111
3-4	943	0	25	968
4-5	980	0	16	996
5-6	995	0	9	1004
TOTAL	6922	0	108	7030

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
1578	0	0	0	0
1373	0	0	0	0
1111	0	0	0	0
968	0	0	0	0
996	0	0	0	0
1004	0	0	0	0
7030	0	0	0	0

City Of Los Angeles

Department Of Transportation

MANUAL TRAFFIC COUNT SUMMARY

PCE ADJUSTED

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

STREET:
North / Sounth: De Soto

East/West: SR-118 WB Ramps

Day: Wednesday, April 25, 2018 Weather: Sunny

Hours:

School Day: Yes District I/S CODE

	N/B	S/B	E/B	W/B
DUAL-WHEELED	232	127	0	541
BIKES	0	0	0	0
BUSES	4	0	0	17

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	183	7:45:00 AM	19	8:45:00 AM	0		464	
PM PK 15 MIN	231	5:15:00 PM	28	3:15:00 PM	0		295	
AM PK HOUR	627	7:15:00 AM	53	8:45:00 AM	0		1626	7:00:00 AM
PM PK HOUR	861	4:45:00 PM	74	3:15:00 PM	0		1058	3:15:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	1	23	556	579
8-9	0	45	466	511
9-10	0	28	370	398
3-4	0	17	610	627
4-5	4	15	705	724
5-6	2	8	809	819
TOTAL	7	135	3516	3657

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	3	18	0	21
8-9	4	40	0	44
9-10	7	37	0	44
3-4	1	71	0	72
4-5	2	42	0	43
5-6	1	23	0	24
TOTAL	18	229	0	247

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
600	0	0	0	0
555	0	0	0	0
441	0	0	0	0
699	0	0	0	0
767	0	0	0	0
843	0	0	0	0
3904	0	0	0	0

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	0	0	0	0
8-9	0	0	0	0
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	0	0	0	0

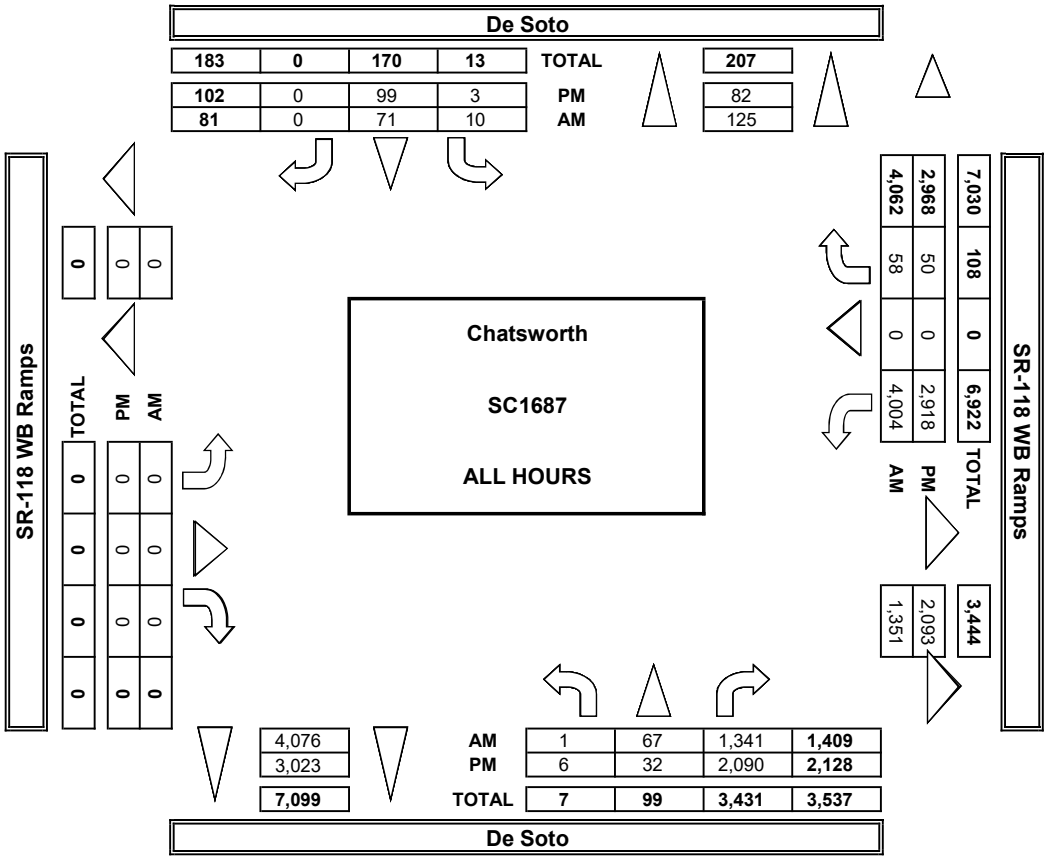
WESTBOUND Approach

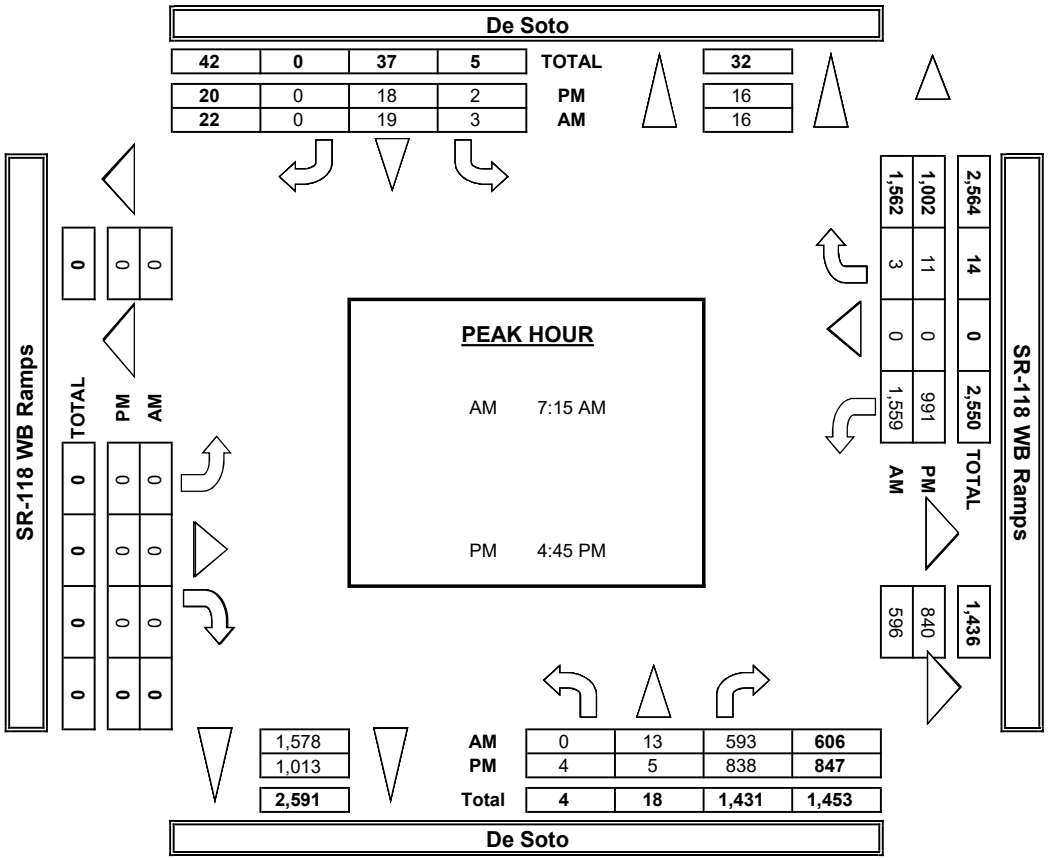
Hours	Lt	Th	Rt	Total
7-8	1614	0	12	1626
8-9	1394	0	33	1427
9-10	1139	0	36	1175
3-4	990	0	35	1025
4-5	1017	0	21	1038
5-6	1018	0	11	1028
TOTAL	7171	0	147	7318

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
1626	0	0	0	0
1427	0	0	0	0
1175	0	0	0	0
1025	0	0	0	0
1038	0	0	0	0
1028	0	0	0	0
7318	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





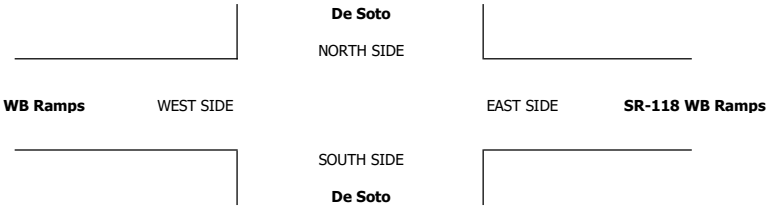
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Chatsworth	PROJECT #:	SC1687
4/25/18	NORTH & SOUTH:	De Soto	LOCATION #:	1
WEDNESDAY	EAST & WEST:	SR-118 WB Ramps	CONTROL:	STOP ALL

	NOTES:												
PCE Adjusted	Class	1	2	3	4	5	6			AM		▲ N	
	Factor	1	1.5	2	3	2	2			PM			
										MD	◄ W		E ►
										OTHER		S	
										OTHER		▼	

	NORTHBOUND (De Soto)			SOUTHBOUND (De Soto)			EASTBOUND (SR-118 WB Ramps)			WESTBOUND (SR-118 WB Ramps)				U-TURNS				
LANES:	NL X	NT 1	NR 2	SL 0.5	ST 1.5	SR X	EL X	ET X	ER X	WL 2	WT X	WR 1	TOTAL	NB	SB	EB	WB	TTL
7:00 AM	1	10	103	0	1	0	0	0	0	389	0	9	513					0
7:15 AM	0	3	137	0	2	0	0	0	0	462	0	2	606					0
7:30 AM	0	7	135	2	3	0	0	0	0	381	0	1	528					0
7:45 AM	0	3	181	2	12	0	0	0	0	383	0	0	579					0
8:00 AM	0	6	156	1	9	0	0	0	0	377	0	2	550					0
8:15 AM	0	9	91	2	6	0	0	0	0	373	0	17	497					0
8:30 AM	0	11	109	0	9	0	0	0	0	334	0	11	473					0
8:45 AM	0	19	111	2	17	0	0	0	0	311	0	5	464					0
9:00 AM	0	7	66	3	10	0	0	0	0	336	0	11	432					0
9:15 AM	0	8	108	2	9	0	0	0	0	269	0	9	403					0
9:30 AM	0	7	113	1	10	0	0	0	0	297	0	9	437					0
9:45 AM	0	7	83	2	8	0	0	0	0	238	0	8	345					0
VOLUMES	1	95	1,392	14	94	0	0	0	0	4,147	0	80	5,823	0	0	0	0	0
APPROACH %	0%	6%	94%	13%	87%	0%	0%	0%	0%	98%	0%	2%						
APP/DEPART	1,488	/	175	108	/	4,241	0	/	1,406	4,227	/	1	0					
BEGIN PEAK HR		7:15 AM																
VOLUMES	0	19	609	4	25	0	0	0	0	1,602	0	4	2,262					
APPROACH %	0%	3%	97%	14%	86%	0%	0%	0%	0%	100%	0%	0%						
PEAK HR FACTOR		0.857			0.537			0.000			0.866		0.934					
APP/DEPART	627	/	23	29	/	1,627	0	/	613	1,606	/	0	0					
03:00 PM	0	4	144	0	11	0	0	0	0	248	0	14	420					0
3:15 PM	0	1	180	0	28	0	0	0	0	250	0	3	462					0
3:30 PM	0	5	134	0	22	0	0	0	0	231	0	13	404					0
3:45 PM	0	8	153	1	10	0	0	0	0	262	0	6	439					0
4:00 PM	2	5	162	0	13	0	0	0	0	285	0	10	476					0
4:15 PM	0	7	176	0	8	0	0	0	0	228	0	7	424					0
4:30 PM	0	3	164	0	15	0	0	0	0	239	0	1	422					0
4:45 PM	2	1	204	2	6	0	0	0	0	265	0	4	483					0
5:00 PM	2	2	223	1	7	0	0	0	0	263	0	5	501					0
5:15 PM	0	3	228	0	6	0	0	0	0	229	0	2	467					0
5:30 PM	0	2	196	0	6	0	0	0	0	265	0	3	470					0
5:45 PM	0	2	164	0	5	0	0	0	0	262	0	2	433					0
VOLUMES	6	40	2,124	4	135	0	0	0	0	3,024	0	67	5,399	0	0	0	0	0
APPROACH %	0%	2%	98%	3%	97%	0%	0%	0%	0%	98%	0%	2%						
APP/DEPART	2,170	/	106	139	/	3,159	0	/	2,128	3,091	/	6	0					
BEGIN PEAK HR		4:45 PM																
VOLUMES	4	7	850	3	25	0	0	0	0	1,021	0	13	1,921					
APPROACH %	0%	1%	99%	9%	91%	0%	0%	0%	0%	99%	0%	1%						
PEAK HR FACTOR		0.933			0.900			0.000			0.962		0.959					
APP/DEPART	861	/	20	27	/	1,046	0	/	852	1,034	/	4	0					



INTERSECTION TURNING MOVEMENT COUNTS

T1017

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Wed, Apr 25, 18

LOCATION: Chatsworth
NORTH & SOUTH: De Soto
EAST & WEST: SR-118 EB Ramps

PROJECT #: SC1687
LOCATION #: 2
CONTROL: STOP E

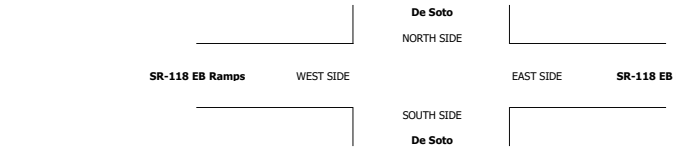
NOTES:
Queue SB AM; queue EB PM

AM
PM
MD
OTHER
OTHER

N ▲ | ◄ W | E ► | S ▼

☑ All U-Turns to Left Turns

		NORTHBOUND De Soto			SOUTHBOUND De Soto			EASTBOUND SR-118 EB Ramps			WESTBOUND SR-118 EB Ramps				U-TURNS				
	LANES:	NL X	NT 1.5	NR 1.5	SL 1	ST 2	SR X	EL 0.5	ET 0.5	ER 1	WL X	WT X	WR X	TOTAL	NB X	SB X	EB X	WB X	TTL
AM	7:00 AM	0	107	261	1	375	0	2	0	157	0	0	0	903	0	0	0	0	0
	7:15 AM	0	137	286	2	449	0	0	0	220	0	0	0	1,094	0	0	0	0	0
	7:30 AM	0	137	277	1	371	0	0	0	242	0	0	0	1,028	0	0	0	0	0
	7:45 AM	0	178	288	1	380	0	0	0	184	0	0	0	1,031	0	0	0	0	0
	8:00 AM	0	155	256	4	367	0	2	0	174	0	0	0	958	0	0	0	0	0
	8:15 AM	0	92	269	4	364	0	3	0	139	0	0	0	871	0	0	0	0	0
	8:30 AM	0	111	236	2	328	0	1	0	136	0	0	0	814	0	0	0	0	0
	8:45 AM	0	117	255	3	307	0	2	0	135	0	0	0	819	0	0	0	0	0
	9:00 AM	0	67	200	4	328	0	0	2	111	0	0	0	712	0	0	0	0	0
	9:15 AM	0	103	208	11	248	0	2	0	108	0	0	0	680	0	0	0	0	0
	9:30 AM	0	111	221	8	277	0	4	0	72	0	0	0	693	0	0	0	0	0
	9:45 AM	0	82	196	3	233	0	1	0	96	0	0	0	611	0	0	0	0	0
	VOLUMES	0	1,397	2,953	44	4,027	0	17	2	1,774	0	0	0	10,214	0	0	0	0	0
	APPROACH %	0%	32%	68%	1%	99%	0%	1%	0%	99%	0%	0%	0%						
	APP/DEPART	4,350	/	1,414	4,071	/	5,801	1,793	/	2,999	0	/	0	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	0	607	1,107	8	1,567	0	2	0	820	0	0	0	4,111					
	APPROACH %	0%	35%	65%	1%	99%	0%	0%	0%	100%	0%	0%	0%						
	PEAK HR FACTOR		0.920			0.873			0.849			0.000		0.939					
	APP/DEPART	1,714	/	609	1,575	/	2,387	822	/	1,115	0	/	0	0					
PM	03:00 PM	0	142	358	9	234	0	0	0	88	0	0	0	831	0	0	0	0	0
	3:15 PM	0	178	376	18	239	0	0	1	82	0	0	0	894	0	0	0	0	0
	3:30 PM	0	131	351	20	219	0	1	0	98	0	0	0	820	0	0	0	0	0
	3:45 PM	0	154	311	4	252	0	1	0	133	0	0	0	855	0	0	0	0	0
	4:00 PM	0	165	292	8	276	0	0	0	139	0	0	0	880	0	0	0	0	0
	4:15 PM	3	183	264	5	222	0	1	0	156	0	0	0	834	3	1	0	0	4
	4:30 PM	0	161	262	6	235	0	1	1	174	0	0	0	840	0	0	0	0	0
	4:45 PM	0	203	317	7	251	0	1	0	188	0	0	0	967	0	0	0	0	0
	5:00 PM	0	222	321	2	260	0	0	0	125	0	0	0	930	0	0	0	0	0
	5:15 PM	0	227	303	3	224	0	3	0	143	0	0	0	903	0	0	0	0	0
	5:30 PM	0	194	281	6	256	0	0	0	144	0	0	0	881	0	1	0	0	1
	5:45 PM	0	163	291	6	255	0	1	0	146	0	0	0	862	0	0	0	0	0
	VOLUMES	3	2,123	3,727	94	2,923	0	9	2	1,616	0	0	0	10,497	3	2	0	0	5
	APPROACH %	0%	36%	64%	3%	97%	0%	1%	0%	99%	0%	0%	0%						
	APP/DEPART	5,853	/	2,134	3,017	/	4,542	1,627	/	3,821	0	/	0	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	0	846	1,222	18	991	0	4	0	600	0	0	0	3,681					
	APPROACH %	0%	41%	59%	2%	98%	0%	1%	0%	99%	0%	0%	0%						
	PEAK HR FACTOR		0.952			0.963			0.799			0.000		0.952					
	APP/DEPART	2,068	/	851	1,009	/	1,591	604	/	1,239	0	/	0	0					



		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS					SCHOOL AGE PED				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0
PM	3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0

City Of Los Angeles

Department Of Transportation

MANUAL TRAFFIC COUNT SUMMARY

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

STREET:
North / Sounth: De Soto

East/West: SR-118 EB Ramps

Day: Wednesday, April 25, 2018 Weather: Sunny

Hours:

School Day: Yes District I/S CODE

	N/B	S/B	E/B	W/B
DUAL-WHEELED	641	577	171	0
BIKES	0	3	0	0
BUSES	43	17	3	0

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	466	7:45:00 AM	451	7:15:00 AM	242	7:30:00 AM	0	9:45:00 AM
PM PK 15 MIN	554	5:00:00 PM	284	5:30:00 PM	189	4:45:00 PM	0	5:45:00 PM
AM PK HOUR	1714	7:15:00 AM	1580	7:00:00 AM	822	7:15:00 AM	0	
PM PK HOUR	2068	4:45:00 PM	1036	3:15:00 PM	661	4:00:00 PM	0	

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	0	559	1112	1671
8-9	0	475	1016	1491
9-10	0	363	825	1188
3-4	0	605	1396	2001
4-5	3	712	1135	1850
5-6	0	806	1196	2002
TOTAL	3	3520	6680	10203

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	5	1575	0	1580
8-9	13	1366	0	1379
9-10	26	1086	0	1112
3-4	51	944	0	995
4-5	26	984	0	1010
5-6	17	995	0	1012
TOTAL	138	6950	0	7088

TOTAL / XING S/L / XING N/L

N-S	Ped	Sch	Ped	Sch
3251	0	0	0	0
2870	0	0	0	0
2300	0	0	0	0
2996	0	0	0	0
2860	0	0	0	0
3014	0	0	0	0
17291	0	0	0	0

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	2	0	803	805
8-9	8	0	584	592
9-10	7	2	387	396
3-4	2	1	401	404
4-5	3	1	657	661
5-6	4	0	558	562
TOTAL	26	4	3390	3420

WESTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	0	0	0	0
8-9	0	0	0	0
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	0	0	0	0

TOTAL / XING W/L / XING E/L

E-W	Ped	Sch	Ped	Sch
805	0	0	0	0
592	0	0	0	0
396	0	0	0	0
404	0	0	0	0
661	0	0	0	0
562	0	0	0	0
3420	0	0	0	0

City Of Los Angeles

Department Of Transportation

MANUAL TRAFFIC COUNT SUMMARY

PCE ADJUSTED

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

STREET:
North / Sounth: De Soto

East/West: SR-118 EB Ramps

Day: Wednesday, April 25, 2018 Weather: Sunny

Hours:

School Day: Yes District I/S CODE

	N/B	S/B	E/B	W/B
DUAL-WHEELED	641	577	171	0
BIKES	0	0	0	0
BUSES	43	17	3	0

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	487	7:45:00 AM	461	7:15:00 AM	246	7:30:00 AM	0	9:45:00 AM
PM PK 15 MIN	569	5:00:00 PM	298	4:00:00 PM	193	4:45:00 PM	0	5:45:00 PM
AM PK HOUR	1774	7:15:00 AM	1628	7:00:00 AM	833	7:15:00 AM	0	
PM PK HOUR	2118	4:45:00 PM	1099	3:15:00 PM	675	4:00:00 PM	0	

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	0	580	1146	1726
8-9	0	499	1064	1563
9-10	0	391	874	1265
3-4	0	625	1448	2073
4-5	3	722	1169	1893
5-6	0	817	1232	2049
TOTAL	3	3632	6932	10567

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	6	1622	0	1628
8-9	16	1419	0	1434
9-10	37	1138	0	1175
3-4	70	991	0	1061
4-5	36	1023	0	1058
5-6	21	1019	0	1039
TOTAL	184	7210	0	7394

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
3353	0	0	0	0
2997	0	0	0	0
2439	0	0	0	0
3133	0	0	0	0
2951	0	0	0	0
3088	0	0	0	0
17960	0	0	0	0

EASTBOUND Approach

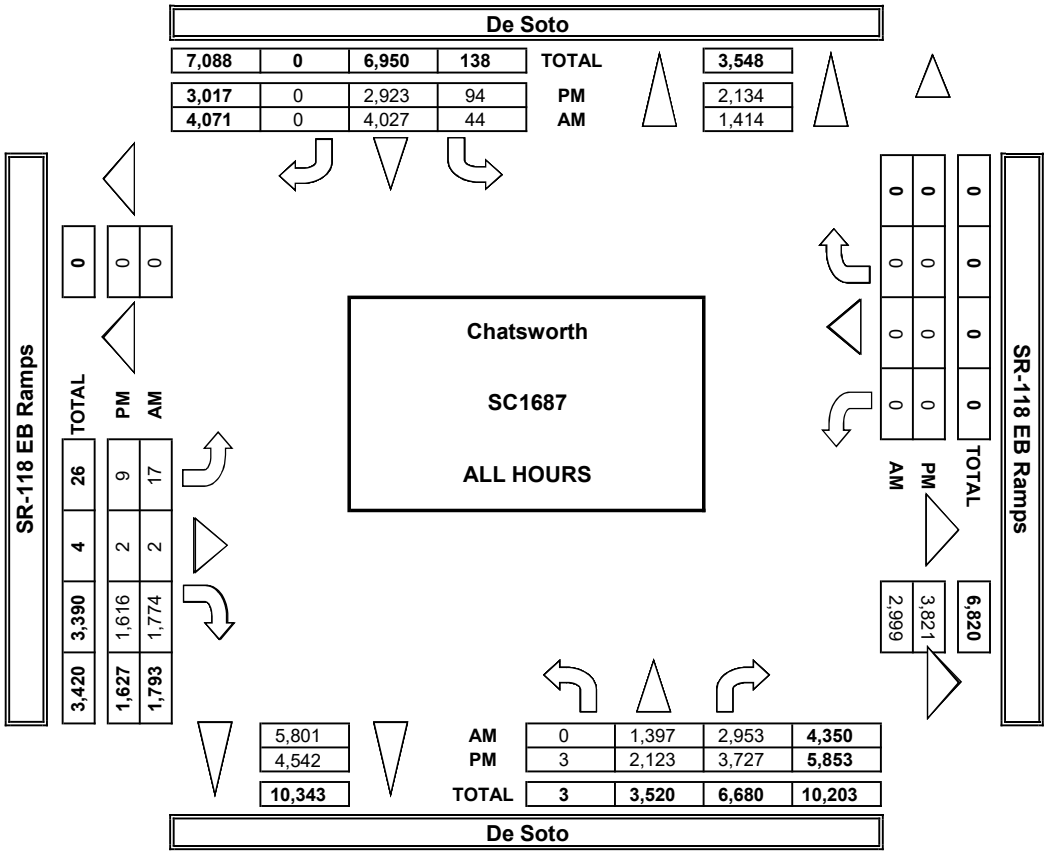
Hours	Lt	Th	Rt	Total
7-8	3	0	813	816
8-9	11	0	600	611
9-10	10	2	402	414
3-4	3	2	419	423
4-5	4	1	670	675
5-6	5	0	567	571
TOTAL	34	5	3470	3509

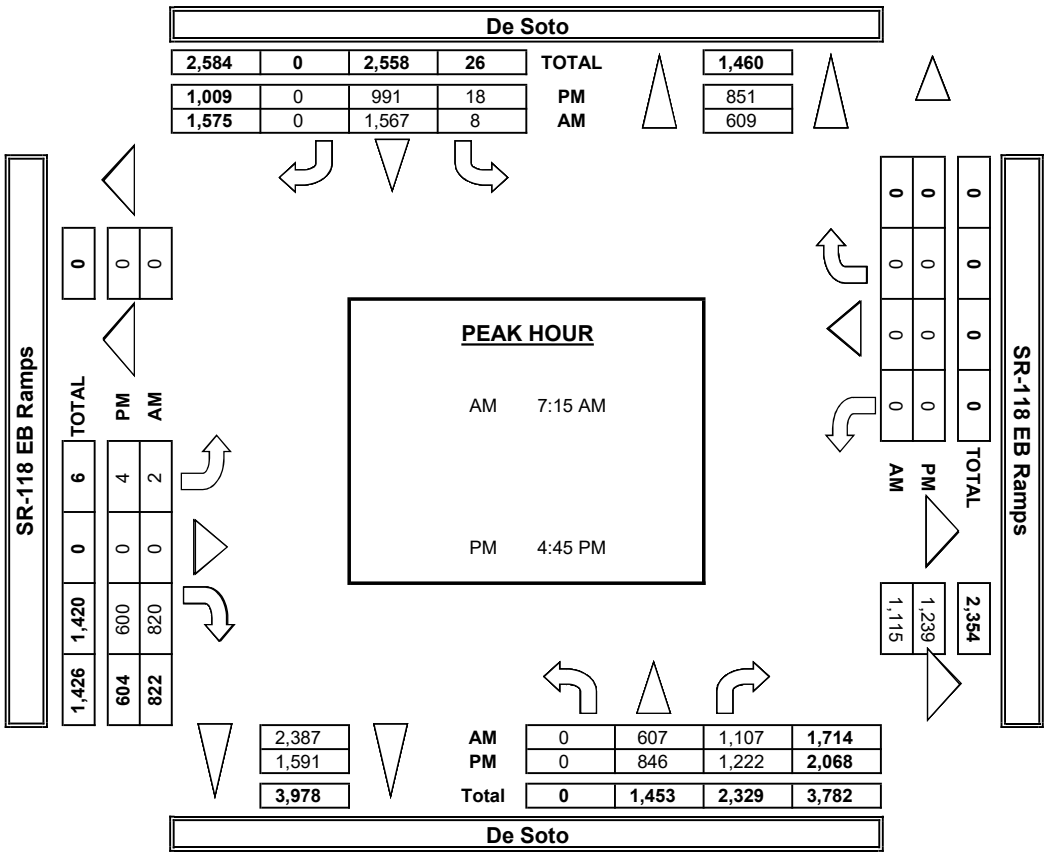
WESTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	0	0	0	0
8-9	0	0	0	0
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	0	0	0	0

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
816	0	0	0	0
611	0	0	0	0
414	0	0	0	0
423	0	0	0	0
675	0	0	0	0
571	0	0	0	0
3509	0	0	0	0

AimTD LLC
TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Chatsworth	PROJECT #:	SC1687
4/25/18	NORTH & SOUTH:	De Soto	LOCATION #:	2
WEDNESDAY	EAST & WEST:	SR-118 EB Ramps	CONTROL:	STOP E

	NOTES:											
PCE Adjusted	Class	1	2	3	4	5	6			AM		▲ N
	Factor	1	1.5	2	3	2	2			PM		
										MD	◄ W	E ►
										OTHER		S ▼
										OTHER		

		NORTHBOUND De Soto			SOUTHBOUND De Soto			EASTBOUND SR-118 EB Ramps			WESTBOUND SR-118 EB Ramps				U-TURNS				
	LANES:	NL X	NT 1.5	NR 1.5	SL 1	ST 2	SR X	EL 0.5	ET 0.5	ER 1	WL X	WT X	WR X	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	112	267	2	389	0	3	0	159	0	0	0	930					0
	7:15 AM	0	140	295	2	459	0	0	0	222	0	0	0	1,118					0
	7:30 AM	0	142	284	2	381	0	0	0	246	0	0	0	1,054					0
	7:45 AM	0	186	301	1	394	0	0	0	187	0	0	0	1,068					0
	8:00 AM	0	159	267	5	381	0	3	0	176	0	0	0	990					0
	8:15 AM	0	96	283	5	374	0	5	0	143	0	0	0	904					0
	8:30 AM	0	117	247	3	340	0	2	0	141	0	0	0	849					0
	8:45 AM	0	128	267	4	325	0	2	0	141	0	0	0	865					0
	9:00 AM	0	73	211	5	341	0	0	2	115	0	0	0	746					0
	9:15 AM	0	112	221	17	260	0	3	0	111	0	0	0	723					0
	9:30 AM	0	118	230	11	296	0	6	0	75	0	0	0	736					0
	9:45 AM	0	88	212	4	242	0	2	0	102	0	0	0	649					0
	VOLUMES	0	1,469	3,084	58	4,178	0	24	2	1,815	0	0	0	10,629	0	0	0	0	0
	APPROACH %	0%	32%	68%	1%	99%	0%	1%	0%	99%	0%	0%	0%						
	APP/DEPART	4,553	/	1,493	4,236	/	5,993	1,840	/	3,144	0	/	0	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	0	627	1,147	9	1,614	0	3	0	830	0	0	0	4,229					
	APPROACH %	0%	35%	65%	1%	99%	0%	0%	0%	100%	0%	0%	0%						
	PEAK HR FACTOR		0.911			0.880			0.848			0.000		0.946					
	APP/DEPART	1,774	/	630	1,623	/	2,444	833	/	1,156	0	/	0	0					
PM	03:00 PM	0	148	377	13	247	0	0	0	92	0	0	0	875					0
	3:15 PM	0	181	388	26	252	0	0	2	87	0	0	0	935					0
	3:30 PM	0	137	363	26	227	0	2	0	104	0	0	0	857					0
	3:45 PM	0	159	321	6	266	0	1	0	138	0	0	0	890					0
	4:00 PM	0	168	302	12	286	0	0	0	143	0	0	0	910					0
	4:15 PM	3	186	271	6	230	0	2	0	160	0	0	0	856					0
	4:30 PM	0	162	271	8	246	0	1	1	177	0	0	0	866					0
	4:45 PM	0	206	325	10	261	0	1	0	192	0	0	0	995					0
	5:00 PM	0	226	330	3	267	0	0	0	127	0	0	0	952					0
	5:15 PM	0	231	312	4	230	0	3	0	145	0	0	0	923					0
	5:30 PM	0	197	292	8	263	0	0	0	148	0	0	0	907					0
	5:45 PM	0	164	299	7	260	0	2	0	147	0	0	0	877					0
	VOLUMES	3	2,163	3,848	126	3,032	0	11	3	1,656	0	0	0	10,840	0	0	0	0	0
	APPROACH %	0%	36%	64%	4%	96%	0%	1%	0%	99%	0%	0%	0%						
	APP/DEPART	6,014	/	2,174	3,158	/	4,687	1,669	/	3,977	0	/	3	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	0	860	1,258	24	1,020	0	4	0	611	0	0	0	3,777					
	APPROACH %	0%	41%	59%	2%	98%	0%	1%	0%	99%	0%	0%	0%						
	PEAK HR FACTOR		0.953			0.963			0.799			0.000		0.949					
	APP/DEPART	2,118	/	864	1,044	/	1,631	615	/	1,282	0	/	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

T1017

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Wed, Apr 25, 18

LOCATION: Chatsworth
NORTH & SOUTH: De Soto
EAST & WEST: Rinaldi

PROJECT #: SC1687
LOCATION #: 3
CONTROL: SIGNAL

NOTES:

AM
PM
MD
OTHER
OTHER

▲ N
◄ W
E ►
S ▼

☑ All U-Turns to Left Turns

		NORTHBOUND De Soto			SOUTHBOUND De Soto			EASTBOUND Rinaldi			WESTBOUND Rinaldi			
	LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 1	ET 0.5	ER 0.5	WL 1.5	WT 0.5	WR 1	TOTAL
AM	7:00 AM	1	358	20	25	516	0	1	0	1	21	0	17	960
	7:15 AM	0	383	23	35	591	2	4	12	4	54	2	32	1,142
	7:30 AM	0	391	53	49	576	7	1	6	0	65	3	39	1,190
	7:45 AM	4	391	75	46	502	11	4	8	2	82	16	54	1,195
	8:00 AM	5	364	35	26	516	7	4	9	4	51	15	36	1,072
	8:15 AM	0	327	30	14	489	14	8	10	2	42	10	19	965
	8:30 AM	1	328	25	11	451	1	6	4	2	27	6	24	886
	8:45 AM	0	331	21	17	415	0	1	3	0	32	3	11	834
	9:00 AM	1	262	21	3	431	1	1	3	3	31	0	11	768
	9:15 AM	1	310	19	8	353	0	0	0	0	31	2	12	736
	9:30 AM	0	288	20	8	335	1	4	1	2	30	0	9	698
	9:45 AM	1	286	26	7	323	1	2	0	0	31	2	7	686
	VOLUMES	14	4,019	368	249	5,498	45	36	56	20	497	59	271	11,132
	APPROACH %	0%	91%	8%	4%	95%	1%	32%	50%	18%	60%	7%	33%	
	APP/DEPART	4,401	/	4,326	5,792	/	6,013	112	/	675	827	/	118	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	9	1,529	186	156	2,185	27	13	35	10	252	36	161	4,599
	APPROACH %	1%	89%	11%	7%	92%	1%	22%	60%	17%	56%	8%	36%	
	PEAK HR FACTOR		0.917			0.937			0.725			0.738		0.962
	APP/DEPART	1,724	/	1,703	2,368	/	2,445	58	/	379	449	/	72	0
PM	03:00 PM	6	431	46	19	300	3	10	13	7	76	20	45	976
	3:15 PM	1	488	61	12	304	3	1	5	3	51	2	50	981
	3:30 PM	1	443	39	7	305	3	2	0	0	55	1	32	888
	3:45 PM	0	450	45	14	371	2	2	2	0	35	2	35	958
	4:00 PM	0	401	88	14	396	1	5	2	0	39	0	43	989
	4:15 PM	1	413	88	28	357	2	3	4	4	49	2	41	992
	4:30 PM	1	389	65	34	380	2	5	5	3	36	2	34	956
	4:45 PM	0	457	72	22	411	3	2	3	1	33	0	36	1,040
	5:00 PM	2	490	65	15	369	5	12	7	1	43	2	33	1,044
	5:15 PM	3	493	71	17	341	2	7	3	2	34	3	52	1,028
	5:30 PM	2	444	66	12	384	1	4	4	2	31	0	28	978
	5:45 PM	3	416	55	20	380	0	6	2	3	38	1	24	948
	VOLUMES	20	5,315	761	214	4,298	27	59	50	26	520	35	453	11,778
	APPROACH %	0%	87%	12%	5%	95%	1%	44%	37%	19%	52%	3%	45%	
	APP/DEPART	6,096	/	5,827	4,539	/	4,844	135	/	1,026	1,008	/	81	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	7	1,884	274	66	1,505	11	25	17	6	141	5	149	4,090
	APPROACH %	0%	87%	13%	4%	95%	1%	52%	35%	13%	48%	2%	51%	
	PEAK HR FACTOR		0.955			0.907			0.600			0.829		0.979
	APP/DEPART	2,165	/	2,058	1,582	/	1,651	48	/	358	295	/	23	0

U-TURNS

NB	SB	EB	WB	TTL
X	X	X	X	
0	0	0	0	0
0	0	0	1	1
0	0	0	0	0
0	0	0	1	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	2	2
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	1	1
0	0	0	0	0
0	0	0	1	1
1	0	0	1	2

De Soto

NORTH SIDE

Rinaldi WEST SIDE EAST SIDE **Rinaldi**

SOUTH SIDE

De Soto

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS					SCHOOL AGE PED				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	3	0	0	1	4	0	0	0	0	0	1	0	0	1	2	2	0	0	0	2
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	2	0	0	2	4	0	0	0	0	0	2	0	0	2	4	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	2	0	1	2	5	0	0	0	0	0	2	0	1	2	5	0	0	0	0	0
	8:45 AM	1	0	0	1	2	0	0	0	0	0	1	0	0	1	2	0	0	0	0	0
	9:00 AM	1	0	0	1	2	0	0	0	0	0	1	0	0	1	2	0	0	0	0	0
	9:15 AM	1	1	0	2	4	0	0	0	0	0	1	1	0	2	4	0	0	0	0	0
	9:30 AM	4	0	0	3	7	2	0	0	1	3	2	0	0	2	4	0	0	0	0	0
	9:45 AM	1	0	0	1	2	0	0	0	0	0	1	0	0	1	2	0	0	0	0	0
	TOTAL	15	1	1	13	30	2	0	0	1	3	11	1	1	12	25	2	0	0	0	2
PM	3:00 PM	28	0	1	1	30	0	0	0	0	0	1	0	1	1	3	27	0	0	0	27
	3:15 PM	3	0	0	0	3	2	0	0	0	2	0	0	0	0	0	1	0	0	0	1
	3:30 PM	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
	3:45 PM	1	0	0	1	2	0	0	0	0	0	1	0	0	1	2	0	0	0	0	0
	4:00 PM	1	0	0	1	2	0	0	0	0	0	1	0	0	1	2	0	0	0	0	0
	4:15 PM	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
	4:30 PM	1	0	0	1	2	0	0	0	0	0	1	0	0	1	2	0	0	0	0	0
	4:45 PM	2	1	0	1	4	0	0	0	0	0	1	1	0	1	3	1	0	0	0	1
	5:00 PM	8	0	0	0	8	1	0	0	0	1	0	0	0	0	0	7	0	0	0	7
	5:15 PM	1	0	1	0	2	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0
	5:30 PM	8	1	2	0	11	0	0	0	0	0	8	1	2	0	11	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	56	2	4	5	67	3	0	0	0	3	15	2	4	5	26	38	0	0	0	38

City Of Los Angeles

Department Of Transportation

MANUAL TRAFFIC COUNT SUMMARY

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

STREET:
North / Sounth: De Soto

East/West: Rinaldi

Day: Wednesday, April 25, 2018 Weather: Sunny

Hours:

School Day: Yes District I/S CODE

	N/B	S/B	E/B	W/B
DUAL-WHEELED	699	638	5	58
BIKES	5	17	3	26
BUSES	43	19	0	20

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	470	7:45:00 AM	632	7:30:00 AM	20	8:15:00 AM	152	7:45:00 AM
PM PK 15 MIN	567	5:15:00 PM	436	4:45:00 PM	30	5:00:00 PM	141	3:00:00 PM
AM PK HOUR	1724	7:15:00 AM	2368	7:15:00 AM	63	7:45:00 AM	449	7:15:00 AM
PM PK HOUR	2165	4:45:00 PM	1650	4:00:00 PM	53	5:00:00 PM	404	3:00:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	5	1523	171	1699
8-9	6	1350	111	1467
9-10	3	1146	86	1235
3-4	8	1812	191	2011
4-5	2	1660	313	1975
5-6	10	1843	257	2110
TOTAL	34	9334	1129	10497

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	155	2185	20	2360
8-9	68	1871	22	1961
9-10	26	1442	3	1471
3-4	52	1280	11	1343
4-5	98	1544	8	1650
5-6	64	1474	8	1546
TOTAL	463	9796	72	10331

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
4059	0	0	0	2
3428	0	0	0	0
2706	0	0	2	0
3354	0	0	2	30
3625	0	0	0	1
3656	0	0	1	7
20828	0	0	5	40

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	10	26	7	43
8-9	19	26	8	53
9-10	7	4	5	16
3-4	15	20	10	45
4-5	15	14	8	37
5-6	29	16	8	53
TOTAL	95	106	46	247

WESTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	222	21	142	385
8-9	152	34	90	276
9-10	123	4	39	166
3-4	217	25	162	404
4-5	157	4	154	315
5-6	146	6	137	289
TOTAL	1017	94	724	1835

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
428	0	0	0	0
329	0	0	0	0
182	1	0	0	0
449	0	0	0	0
352	0	0	0	0
342	0	0	0	0
2082	1	0	0	0

City Of Los Angeles

Department Of Transportation

MANUAL TRAFFIC COUNT SUMMARY

PCE ADJUSTED

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

STREET:
North / Sounth: De Soto

East/West: Rinaldi

Day: Wednesday, April 25, 2018 Weather: Sunny

Hours:

School Day: Yes District I/S CODE

	N/B	S/B	E/B	W/B
DUAL-WHEELED	699	638	5	58
BIKES	0	0	0	0
BUSES	43	19	0	20

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	493	7:45:00 AM	644	7:30:00 AM	20	8:15:00 AM	160	7:45:00 AM
PM PK 15 MIN	579	5:15:00 PM	452	4:45:00 PM	30	5:00:00 PM	144	3:00:00 PM
AM PK HOUR	1795	7:15:00 AM	2418	7:15:00 AM	63	7:45:00 AM	460	7:15:00 AM
PM PK HOUR	2214	4:45:00 PM	1704	4:00:00 PM	53	5:00:00 PM	414	3:00:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	5	1584	175	1763
8-9	6	1421	112	1539
9-10	3	1218	92	1313
3-4	8	1892	196	2096
4-5	2	1703	318	2022
5-6	10	1887	261	2158
TOTAL	34	9704	1152	10890

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	158	2236	20	2413
8-9	70	1939	22	2031
9-10	28	1505	3	1536
3-4	54	1337	11	1402
4-5	102	1593	9	1704
5-6	64	1513	8	1585
TOTAL	476	10121	73	10669

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
4176	0	0	0	0
3569	0	0	0	0
2849	0	0	0	0
3497	0	0	0	0
3726	0	0	0	0
3742	0	0	0	0
21559	0	0	0	0

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	10	26	7	43
8-9	19	26	8	53
9-10	7	5	5	17
3-4	15	21	10	46
4-5	16	15	8	38
5-6	29	16	8	53
TOTAL	96	108	46	250

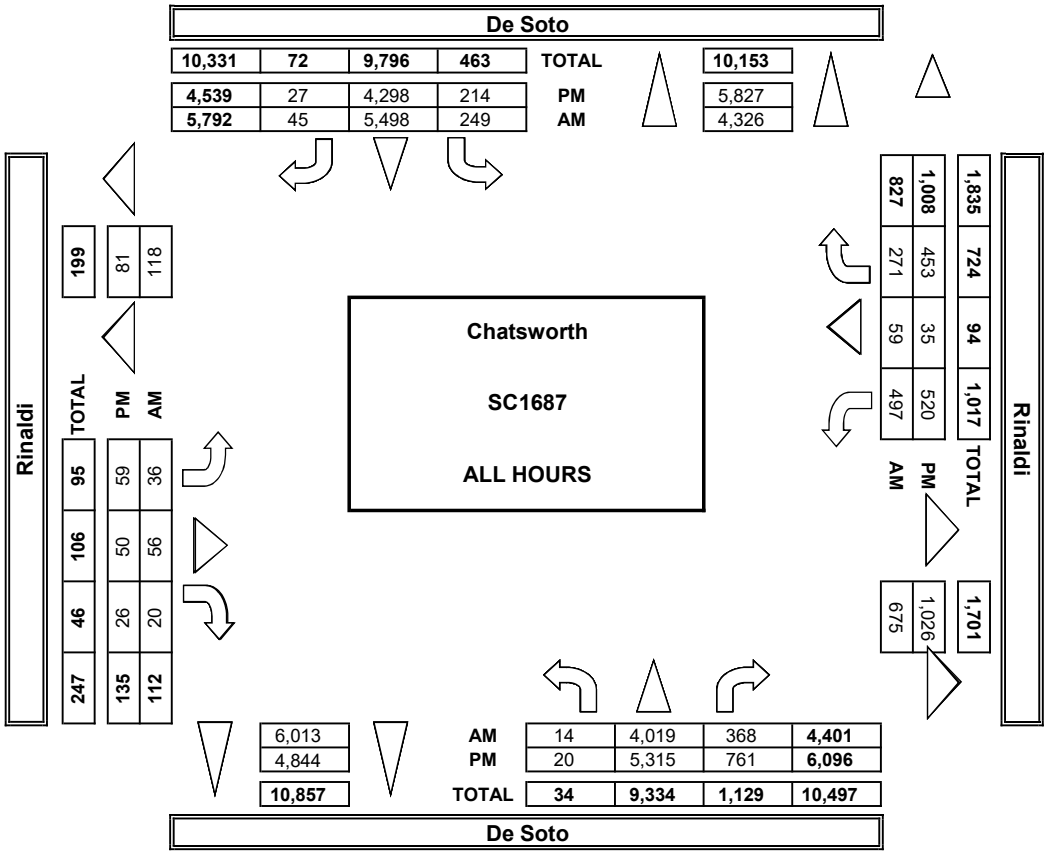
WESTBOUND Approach

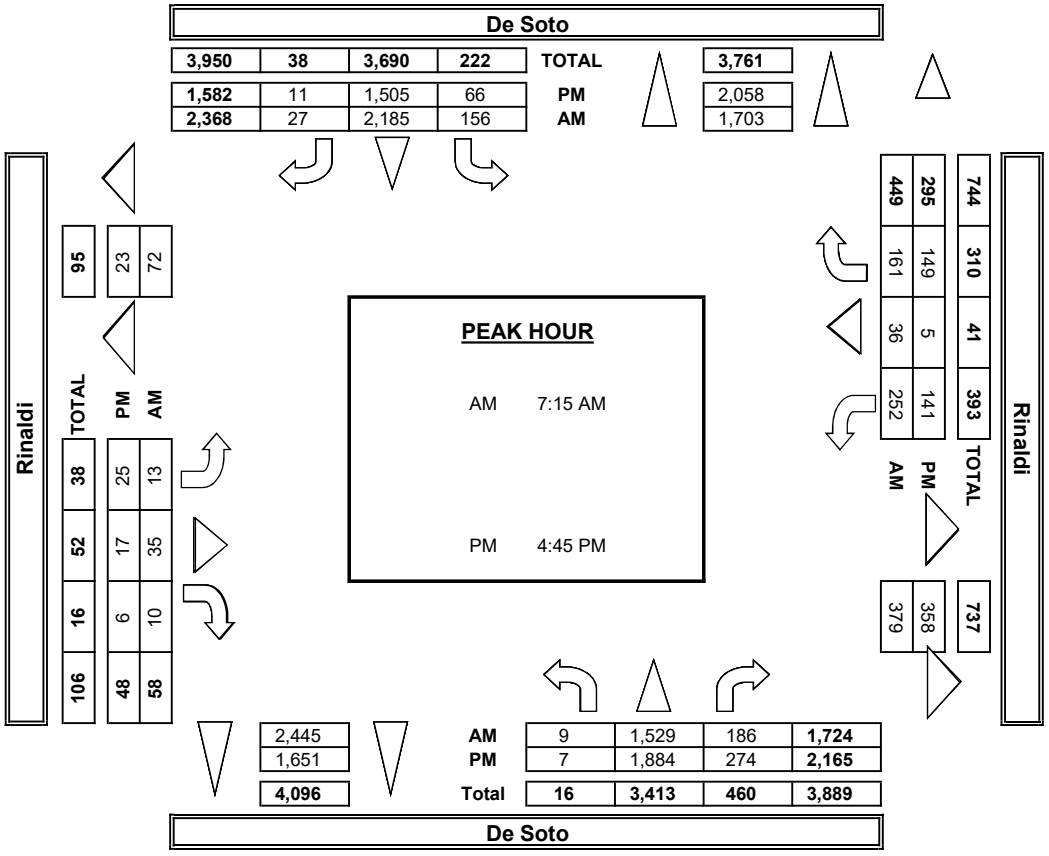
Hours	Lt	Th	Rt	Total
7-8	230	21	144	395
8-9	156	36	92	283
9-10	131	5	42	177
3-4	224	26	165	414
4-5	159	4	155	318
5-6	150	6	142	298
TOTAL	1049	97	739	1884

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
438	0	0	0	0
336	0	0	0	0
194	0	0	0	0
460	0	0	0	0
356	0	0	0	0
351	0	0	0	0
2134	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





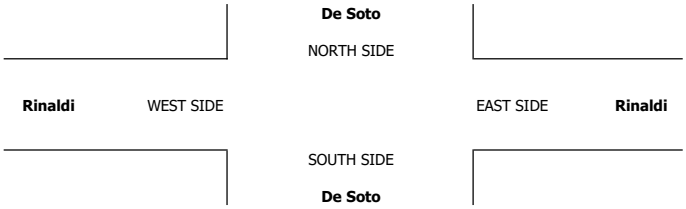
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Chatsworth	PROJECT #:	SC1687
4/25/18	NORTH & SOUTH:	De Soto	LOCATION #:	3
WEDNESDAY	EAST & WEST:	Rinaldi	CONTROL:	SIGNAL

	NOTES:											
PCE Adjusted	Class	1	2	3	4	5	6			AM		▲ N
	Factor	1	1.5	2	3	2	2			PM		
										MD	◄ W	E ►
										OTHER		S ▼
										OTHER		

	NORTHBOUND (De Soto)			SOUTHBOUND (De Soto)			EASTBOUND (Rinaldi)			WESTBOUND (Rinaldi)				U-TURNS				
LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 1	ET 0.5	ER 0.5	WL 1.5	WT 0.5	WR 1	TOTAL	NB	SB	EB	WB	TTL
7:00 AM	1	366	21	25	531	0	1	0	1	22	0	17	983					0
7:15 AM	0	399	24	36	603	2	4	12	4	54	2	33	1,171					0
7:30 AM	0	407	54	50	587	7	1	6	0	66	3	40	1,220					0
7:45 AM	4	413	77	47	516	11	4	8	2	89	16	55	1,240					0
8:00 AM	5	378	36	27	527	7	4	9	4	52	15	37	1,099					0
8:15 AM	0	345	30	15	504	14	8	10	2	43	11	20	1,000					0
8:30 AM	1	343	26	12	466	1	6	4	2	29	7	24	919					0
8:45 AM	0	355	21	18	442	0	1	3	0	32	4	12	887					0
9:00 AM	1	277	23	3	449	1	1	4	3	32	0	11	805					0
9:15 AM	1	334	21	8	366	0	0	0	0	35	2	13	779					0
9:30 AM	0	301	22	10	356	1	4	1	2	32	0	10	737					0
9:45 AM	1	307	27	8	335	1	2	0	0	32	3	9	723					0
VOLUMES	14	4,222	379	256	5,679	45	36	57	20	517	61	277	11,562	0	0	0	0	0
APPROACH %	0%	91%	8%	4%	95%	1%	32%	50%	18%	60%	7%	32%						
APP/DEPART	4,615	/	4,535	5,980	/	6,216	113	/	691	855	/	120	0					
BEGIN PEAK HR		7:15 AM																
VOLUMES	9	1,596	190	159	2,232	27	13	35	10	260	36	164	4,730					
APPROACH %	1%	89%	11%	7%	92%	1%	22%	60%	17%	57%	8%	36%						
PEAK HR FACTOR		0.910			0.939			0.725			0.718		0.954					
APP/DEPART	1,795	/	1,773	2,418	/	2,502	58	/	384	460	/	72	0					
03:00 PM	6	454	48	20	314	3	10	13	7	78	20	46	1,018					0
3:15 PM	1	509	62	13	317	3	1	6	3	56	3	50	1,023					0
3:30 PM	1	460	40	8	316	3	2	0	0	55	1	33	918					0
3:45 PM	0	470	46	14	390	2	2	2	0	35	2	36	999					0
4:00 PM	0	416	92	17	409	2	6	2	0	40	0	44	1,025					0
4:15 PM	1	422	89	29	367	2	3	5	4	50	2	41	1,013					0
4:30 PM	1	397	66	35	391	2	5	5	3	36	2	34	976					0
4:45 PM	0	469	72	22	427	3	2	3	1	34	0	37	1,068					0
5:00 PM	2	502	66	15	382	5	12	7	1	44	2	34	1,071					0
5:15 PM	3	504	72	17	352	2	7	3	2	34	3	54	1,052					0
5:30 PM	2	456	68	12	393	1	4	4	2	33	0	31	1,005					0
5:45 PM	3	426	55	20	387	0	6	2	3	39	1	24	966					0
VOLUMES	20	5,482	774	220	4,442	28	60	51	26	532	36	462	12,131	0	0	0	0	0
APPROACH %	0%	87%	12%	5%	95%	1%	44%	37%	19%	52%	3%	45%						
APP/DEPART	6,275	/	6,003	4,690	/	5,000	137	/	1,045	1,030	/	83	0					
BEGIN PEAK HR		4:45 PM																
VOLUMES	7	1,930	278	66	1,553	11	25	17	6	145	5	155	4,196					
APPROACH %	0%	87%	13%	4%	95%	1%	52%	35%	13%	48%	2%	51%						
PEAK HR FACTOR		0.957			0.902			0.600			0.840		0.980					
APP/DEPART	2,214	/	2,109	1,630	/	1,703	48	/	361	304	/	23	0					



INTERSECTION TURNING MOVEMENT COUNTS

T1017

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Wed, Apr 25, 18

LOCATION: Chatsworth
NORTH & SOUTH: De Soto
EAST & WEST: Chatsworth

PROJECT #: SC1687
LOCATION #: 4
CONTROL: SIGNAL

NOTES:

AM
PM
MD
OTHER
OTHER

▲ N
◄ W
E ►
S ▼

☑ All U-Turns to Left Turns

		NORTHBOUND De Soto			SOUTHBOUND De Soto			EASTBOUND Chatsworth			WESTBOUND Chatsworth			
	LANES:	NL 1	NT 3	NR 0	SL 1	ST 2	SR 1	EL 2	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL
AM	7:00 AM	1	302	4	43	351	144	41	21	3	2	3	16	931
	7:15 AM	1	316	0	30	428	181	46	40	1	4	22	31	1,100
	7:30 AM	2	311	6	51	403	161	75	89	2	4	20	32	1,156
	7:45 AM	5	378	7	43	378	140	71	55	4	4	24	22	1,131
	8:00 AM	8	292	6	37	369	144	52	38	6	7	27	28	1,014
	8:15 AM	11	289	4	30	367	145	53	36	4	2	30	11	982
	8:30 AM	6	276	3	30	326	136	58	36	12	1	23	13	920
	8:45 AM	5	298	4	19	324	116	28	18	5	1	11	14	843
	9:00 AM	8	224	2	22	310	60	33	10	5	3	7	10	694
	9:15 AM	2	285	3	10	308	60	21	15	4	3	14	13	738
	9:30 AM	1	257	4	14	287	49	32	18	5	2	9	15	693
	9:45 AM	5	275	8	4	321	41	22	20	4	6	12	13	731
	VOLUMES	55	3,503	51	333	4,172	1,377	532	396	55	39	202	218	10,933
	APPROACH %	2%	97%	1%	6%	71%	23%	54%	40%	6%	8%	44%	47%	
	APP/DEPART	3,609	/	4,253	5,882	/	4,266	983	/	780	459	/	1,634	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	16	1,297	19	161	1,578	626	244	222	13	19	93	113	4,401
	APPROACH %	1%	97%	1%	7%	67%	26%	51%	46%	3%	8%	41%	50%	
	PEAK HR FACTOR		0.854			0.925			0.721			0.907		0.952
	APP/DEPART	1,332	/	1,654	2,365	/	1,610	479	/	402	225	/	735	0
PM	03:00 PM	9	379	10	9	269	65	72	51	12	2	23	20	921
	3:15 PM	9	398	10	21	278	71	67	61	10	4	29	23	981
	3:30 PM	7	385	11	18	260	62	76	37	5	3	26	34	924
	3:45 PM	7	385	20	21	319	53	89	46	8	4	29	42	1,023
	4:00 PM	9	383	30	23	361	59	59	41	8	1	23	34	1,031
	4:15 PM	12	382	28	17	276	66	77	47	11	3	24	25	968
	4:30 PM	6	381	29	27	348	71	72	56	16	2	28	25	1,061
	4:45 PM	8	369	28	21	329	63	76	71	7	5	34	28	1,039
	5:00 PM	4	418	12	32	331	59	92	52	11	2	19	46	1,078
	5:15 PM	7	446	16	23	268	57	86	56	7	5	30	41	1,042
	5:30 PM	0	344	15	23	360	58	60	35	11	6	22	30	964
	5:45 PM	8	389	8	19	310	50	70	36	3	2	28	25	948
	VOLUMES	86	4,659	217	254	3,709	734	896	589	109	39	315	373	11,980
	APPROACH %	2%	94%	4%	5%	79%	16%	56%	37%	7%	5%	43%	51%	
	APP/DEPART	4,962	/	5,928	4,697	/	3,857	1,594	/	1,060	727	/	1,135	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	25	1,614	85	103	1,276	250	326	235	41	14	111	140	4,220
	APPROACH %	1%	94%	5%	6%	78%	15%	54%	39%	7%	5%	42%	53%	
	PEAK HR FACTOR		0.919			0.913			0.971			0.872		0.979
	APP/DEPART	1,724	/	2,080	1,629	/	1,331	602	/	423	265	/	386	0

U-TURNS

	NB X	SB X	EB X	WB X	TTL
AM	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
PM	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

De Soto

NORTH SIDE

Chatsworth — WEST SIDE — EAST SIDE — Chatsworth

SOUTH SIDE

De Soto

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS					SCHOOL AGE PED				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	2	0	1	3	0	0	0	0	0	0	2	0	1	3	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	4	0	1	5	0	2	0	0	2	0	2	0	1	3	0	0	0	0	0
PM	3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
	5:15 PM	4	0	0	0	4	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0
	5:30 PM	0	1	0	1	2	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0
	5:45 PM	4	0	0	0	4	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0
	TOTAL	8	2	0	2	12	4	1	0	1	6	4	1	0	1	6	0	0	0	0	0

City Of Los Angeles

Department Of Transportation

MANUAL TRAFFIC COUNT SUMMARY

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

STREET:
North / Sounth: De Soto

East/West: Chatsworth

Day: Wednesday, April 25, 2018 Weather: Sunny

Hours:

School Day: Yes District I/S CODE

	N/B	S/B	E/B	W/B
DUAL-WHEELED	660	634	106	56
BIKES	0	2	3	4
BUSES	30	31	18	2

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	390	7:45:00 AM	639	7:15:00 AM	166	7:30:00 AM	62	8:00:00 AM
PM PK 15 MIN	469	5:15:00 PM	446	4:30:00 PM	155	5:00:00 PM	76	5:15:00 PM
AM PK HOUR	1333	7:00:00 AM	2365	7:15:00 AM	485	7:30:00 AM	225	7:15:00 AM
PM PK HOUR	1724	4:30:00 PM	1661	4:00:00 PM	602	4:30:00 PM	268	4:45:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	9	1307	17	1333
8-9	30	1155	17	1202
9-10	16	1041	17	1074
3-4	32	1547	51	1630
4-5	35	1515	115	1665
5-6	19	1597	51	1667
TOTAL	141	8162	268	8571

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	167	1560	626	2353
8-9	116	1386	541	2043
9-10	50	1226	210	1486
3-4	69	1126	251	1446
4-5	88	1314	259	1661
5-6	97	1269	224	1590
TOTAL	587	7881	2111	10579

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
3686	1	0	0	0
3245	1	0	0	0
2560	0	0	0	0
3076	0	0	0	0
3326	0	0	0	0
3257	1	0	4	0
19150	3	0	4	0

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	233	205	10	448
8-9	191	128	27	346
9-10	108	63	18	189
3-4	304	195	35	534
4-5	284	215	42	541
5-6	308	179	32	519
TOTAL	1428	985	164	2577

WESTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	14	69	101	184
8-9	11	91	66	168
9-10	14	42	51	107
3-4	13	107	119	239
4-5	11	109	112	232
5-6	15	99	142	256
TOTAL	78	517	591	1186

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
632	0	0	0	0
514	0	0	0	0
296	0	0	0	0
773	0	0	0	0
773	1	0	0	0
775	0	0	0	0
3763	1	0	0	0

City Of Los Angeles

Department Of Transportation

MANUAL TRAFFIC COUNT SUMMARY

PCE ADJUSTED

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

STREET:
North / Sounth: De Soto

East/West: Chatsworth

Day: Wednesday, April 25, 2018 Weather: Sunny

Hours:

School Day: Yes District I/S CODE

	N/B	S/B	E/B	W/B
DUAL-WHEELED	660	634	106	56
BIKES	0	0	0	0
BUSES	30	31	18	2

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	408	7:45:00 AM	650	7:15:00 AM	171	7:30:00 AM	63	8:00:00 AM
PM PK 15 MIN	483	5:15:00 PM	463	4:30:00 PM	156	4:45:00 PM	77	5:15:00 PM
AM PK HOUR	1397	7:15:00 AM	2419	7:15:00 AM	496	7:30:00 AM	230	7:15:00 AM
PM PK HOUR	1770	4:30:00 PM	1716	4:00:00 PM	610	4:30:00 PM	273	4:45:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	10	1365	18	1392
8-9	32	1229	18	1279
9-10	17	1108	18	1143
3-4	33	1610	52	1695
4-5	35	1556	117	1708
5-6	20	1644	52	1716
TOTAL	146	8511	274	8931

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	169	1596	646	2411
8-9	121	1435	557	2113
9-10	52	1271	222	1545
3-4	71	1179	260	1510
4-5	91	1360	266	1716
5-6	99	1308	228	1635
TOTAL	602	8149	2177	10927

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
3803	0	0	0	0
3391	0	0	0	0
2687	0	0	0	0
3204	0	0	0	0
3423	0	0	0	0
3351	0	0	0	0
19858	0	0	0	0

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	238	211	11	460
8-9	196	131	28	355
9-10	114	65	20	199
3-4	318	201	38	557
4-5	290	222	43	554
5-6	313	181	32	526
TOTAL	1467	1011	171	2648

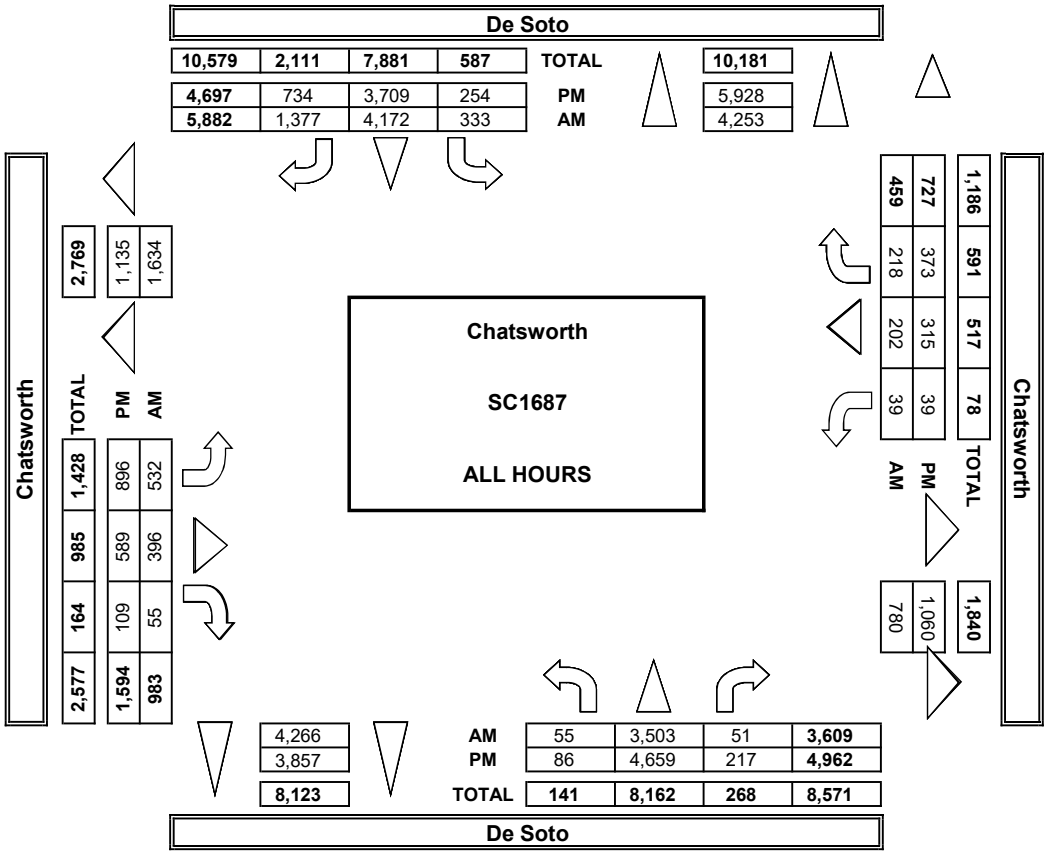
WESTBOUND Approach

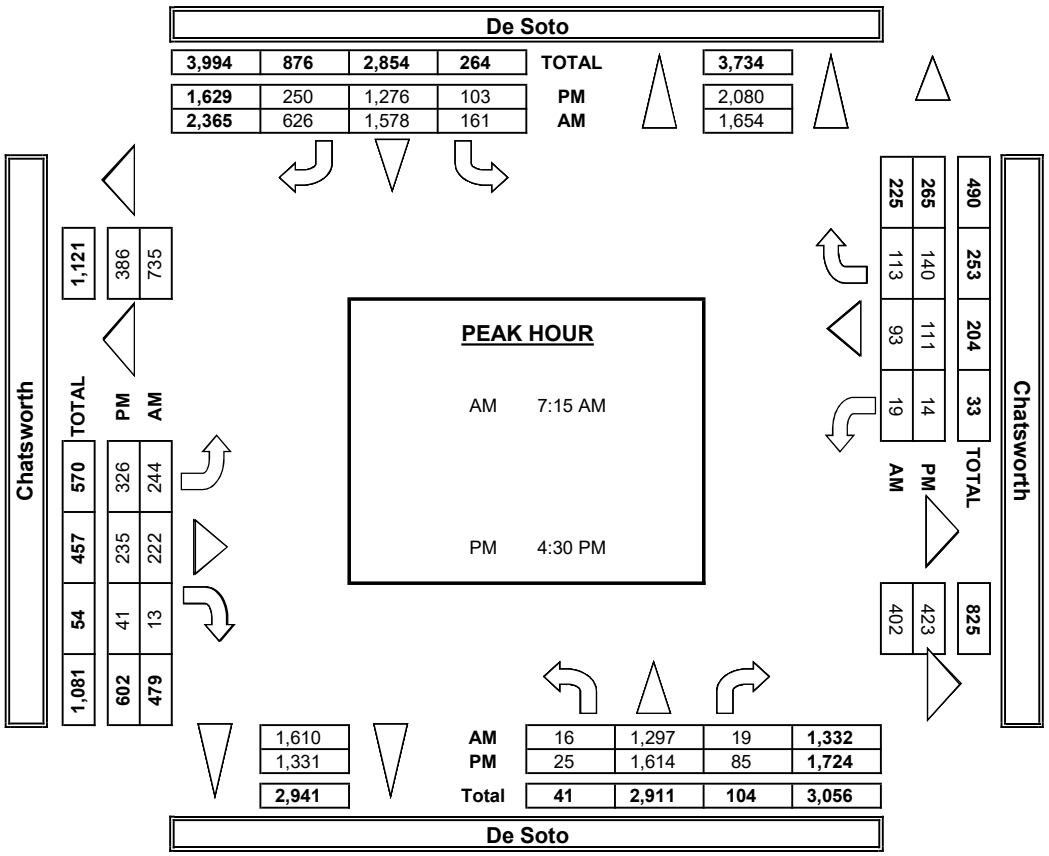
Hours	Lt	Th	Rt	Total
7-8	14	72	104	190
8-9	11	93	67	170
9-10	15	43	53	111
3-4	14	110	123	246
4-5	13	112	117	241
5-6	17	100	143	259
TOTAL	83	529	605	1216

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
649	0	0	0	0
525	0	0	0	0
309	0	0	0	0
803	0	0	0	0
795	0	0	0	0
785	0	0	0	0
3864	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Chatsworth	PROJECT #:	SC1687
4/25/18	NORTH & SOUTH:	De Soto	LOCATION #:	4
WEDNESDAY	EAST & WEST:	Chatsworth	CONTROL:	SIGNAL

	NOTES:											
PCE Adjusted	Class	1	2	3	4	5	6			AM		▲ N
	Factor	1	1.5	2	3	2	2			PM		
										MD	◄ W	E ►
										OTHER		S ▼
										OTHER		

		NORTHBOUND De Soto			SOUTHBOUND De Soto			EASTBOUND Chatsworth			WESTBOUND Chatsworth				U-TURNS				
	LANES:	NL 1	NT 3	NR 0	SL 1	ST 2	SR 1	EL 2	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	1	312	5	44	364	149	42	22	4	2	3	17	963					0
	7:15 AM	2	331	0	30	436	184	47	41	1	4	23	32	1,130					0
	7:30 AM	2	327	6	52	409	166	77	93	2	4	22	33	1,190					0
	7:45 AM	5	396	7	44	388	148	73	56	4	4	24	22	1,170					0
	8:00 AM	10	307	6	39	380	147	52	40	6	7	28	28	1,048					0
	8:15 AM	12	309	5	31	381	147	54	37	4	2	31	12	1,022					0
	8:30 AM	6	293	3	31	335	142	61	36	13	1	24	13	956					0
	8:45 AM	5	321	4	21	340	122	29	19	5	1	11	14	891					0
	9:00 AM	9	241	2	23	321	64	34	10	6	3	7	10	730					0
	9:15 AM	2	303	3	11	315	63	23	16	4	3	14	14	769					0
	9:30 AM	1	271	4	15	303	52	35	18	6	3	9	15	729					0
	9:45 AM	5	293	9	4	333	43	22	22	5	7	13	15	768					0
	VOLUMES	59	3,702	53	342	4,302	1,424	547	407	59	40	207	223	11,363	0	0	0	0	0
	APPROACH %	2%	97%	1%	6%	71%	23%	54%	40%	6%	9%	44%	47%						
	APP/DEPART	3,813	/	4,472	6,068	/	4,401	1,013	/	802	470	/	1,689	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	18	1,360	19	164	1,612	644	248	230	13	19	97	115	4,537					
	APPROACH %	1%	97%	1%	7%	67%	27%	51%	47%	3%	8%	42%	50%						
	PEAK HR FACTOR		0.857			0.931			0.717			0.920		0.953					
	APP/DEPART	1,397	/	1,723	2,419	/	1,644	491	/	412	230	/	758	0					
PM	03:00 PM	10	398	10	9	281	66	77	52	13	2	24	20	961					0
	3:15 PM	9	411	11	22	295	77	70	63	12	4	30	25	1,026					0
	3:30 PM	7	400	11	18	271	63	78	40	5	4	27	36	958					0
	3:45 PM	7	401	21	22	333	55	94	47	8	4	30	42	1,062					0
	4:00 PM	9	398	31	24	373	62	62	42	8	2	25	35	1,069					0
	4:15 PM	12	390	29	18	284	67	79	49	11	4	24	27	991					0
	4:30 PM	6	390	30	28	361	74	73	59	16	2	29	26	1,092					0
	4:45 PM	8	378	28	22	343	64	76	73	8	5	35	30	1,067					0
	5:00 PM	5	431	12	33	343	60	93	52	11	3	20	46	1,108					0
	5:15 PM	7	460	17	23	275	57	87	57	7	6	30	41	1,065					0
	5:30 PM	0	355	16	23	372	60	63	35	11	6	22	31	993					0
	5:45 PM	9	399	8	20	319	51	71	37	3	2	28	25	970					0
	VOLUMES	88	4,810	221	260	3,847	753	920	604	112	43	322	382	12,359	0	0	0	0	0
	APPROACH %	2%	94%	4%	5%	79%	15%	56%	37%	7%	6%	43%	51%						
	APP/DEPART	5,118	/	6,112	4,860	/	4,001	1,636	/	1,085	746	/	1,162	0					
	BEGIN PEAK HR		4:30 PM																
	VOLUMES	26	1,658	86	106	1,321	255	328	240	42	16	113	143	4,331					
	APPROACH %	1%	94%	5%	6%	79%	15%	54%	39%	7%	6%	42%	53%						
	PEAK HR FACTOR		0.916			0.909			0.977			0.880		0.978					
	APP/DEPART	1,770	/	2,129	1,681	/	1,378	610	/	432	271	/	393	0					

INTERSECTION TURNING MOVEMENT COUNTS

T1017

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Wed, Apr 25, 18

LOCATION: Chatsworth
NORTH & SOUTH: Mason
EAST & WEST: Rinaldi

PROJECT #: SC1687
LOCATION #: 5
CONTROL: SIGNAL

NOTES:

AM
PM
MD
OTHER
OTHER

▲ N
◄ W
E ►
S ▼

*Add U-Turns to Left Turns

		NORTHBOUND (Mason)			SOUTHBOUND (Mason)			EASTBOUND (Rinaldi)			WESTBOUND (Rinaldi)			
	LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 1	ET 3	ER 0	WL 2	WT 2	WR 0	TOTAL
AM	7:00 AM	8	16	103	37	67	6	7	31	21	286	44	11	637
	7:15 AM	11	30	140	41	95	26	8	25	46	271	63	14	770
	7:30 AM	20	48	177	38	101	29	20	44	42	301	84	20	924
	7:45 AM	26	57	141	43	101	43	24	43	24	252	105	16	875
	8:00 AM	14	26	149	38	88	21	22	37	40	292	62	18	807
	8:15 AM	6	28	109	35	87	20	6	39	21	287	38	14	690
	8:30 AM	10	27	95	22	47	11	5	32	22	230	38	15	554
	8:45 AM	7	23	123	33	49	10	8	34	23	219	30	14	573
	9:00 AM	6	22	84	39	53	8	6	20	12	187	29	7	473
	9:15 AM	7	22	82	25	30	11	8	17	6	133	33	6	380
	9:30 AM	1	29	87	20	32	12	11	30	5	107	27	9	370
	9:45 AM	3	17	98	19	29	8	10	30	6	117	25	13	375
	VOLUMES	119	345	1,388	390	779	205	135	382	268	2,682	578	157	7,428
	APPROACH %	6%	19%	75%	28%	57%	15%	17%	49%	34%	78%	17%	5%	
	APP/DEPART	1,852	/	638	1,374	/	3,729	785	/	2,159	3,417	/	902	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	71	161	607	160	385	119	74	149	152	1,116	314	68	3,376
	APPROACH %	8%	19%	72%	24%	58%	18%	20%	40%	41%	74%	21%	5%	
	PEAK HR FACTOR		0.856			0.888			0.884			0.925		0.913
	APP/DEPART	839	/	303	664	/	1,653	375	/	916	1,498	/	504	0
PM	03:00 PM	22	51	202	29	46	22	24	67	19	135	49	23	689
	3:15 PM	28	39	209	28	44	22	23	62	12	111	42	26	646
	3:30 PM	21	35	255	30	49	16	15	38	11	141	61	19	691
	3:45 PM	30	65	268	22	53	9	10	54	8	128	37	28	712
	4:00 PM	45	84	294	17	24	9	12	89	5	132	44	35	790
	4:15 PM	23	84	300	24	25	15	14	106	8	113	43	26	781
	4:30 PM	30	63	279	24	36	14	20	91	11	127	45	27	767
	4:45 PM	23	74	283	23	38	13	15	86	9	119	36	26	745
	5:00 PM	31	69	269	18	37	9	12	73	8	129	49	23	727
	5:15 PM	50	75	266	18	36	8	15	81	14	146	41	23	773
	5:30 PM	30	74	248	16	36	7	16	62	6	127	26	32	680
	5:45 PM	21	68	204	12	45	9	22	44	11	136	42	30	644
	VOLUMES	354	781	3,077	261	469	153	198	853	122	1,544	515	318	8,645
	APPROACH %	8%	19%	73%	30%	53%	17%	17%	73%	10%	65%	22%	13%	
	APP/DEPART	4,212	/	1,298	883	/	2,134	1,173	/	4,191	2,377	/	1,022	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	121	305	1,156	88	123	51	61	372	33	491	168	114	3,083
	APPROACH %	8%	19%	73%	34%	47%	19%	13%	80%	7%	64%	22%	15%	
	PEAK HR FACTOR		0.935			0.885			0.910			0.916		0.976
	APP/DEPART	1,582	/	480	262	/	647	466	/	1,616	773	/	340	0

U-TURNS

NB X	SB X	EB X	WB X	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1	1
0	0	0	0	0
0	0	0	0	0
0	1	0	1	2

Mason

NORTH SIDE

Rinaldi — WEST SIDE — EAST SIDE — Rinaldi

SOUTH SIDE

Mason

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS					SCHOOL AGE PED				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	1	0	0	1	2	1	0	0	0	1	0	0	0	1	1	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	3	0	4	7	0	3	0	4	7	0	0	0	0	0	0	0	0	0	0
	7:45 AM	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
	8:00 AM	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
	8:15 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
	8:30 AM	2	1	0	0	3	2	0	0	0	2	0	1	0	0	1	0	0	0	0	0
	8:45 AM	1	1	0	1	3	0	1	0	1	2	1	0	0	0	1	0	0	0	0	0
	9:00 AM	4	0	2	0	6	2	0	2	0	4	2	0	0	0	2	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	1	1	1	3	0	0	0	1	1	0	1	1	0	2	0	0	0	0	0
	9:45 AM	1	0	0	1	2	1	0	0	1	2	0	0	0	0	0	0	0	0	0	0
	TOTAL	11	7	3	8	29	6	4	2	7	19	5	3	1	1	10	0	0	0	0	0
PM	3:00 PM	0	1	1	0	2	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0
	3:15 PM	3	1	0	0	4	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4
	3:30 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
	3:45 PM	1	1	1	0	3	0	0	0	0	0	1	1	1	0	3	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
	4:30 PM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	1	1	1	0	3	1	0	0	0	1	0	1	1	0	2	0	0	0	0	0
	5:00 PM	0	1	0	1	2	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0
	5:15 PM	3	1	0	1	5	0	0	0	0	0	3	1	0	1	5	0	0	0	0	0
	5:30 PM	6	2	2	0	10	0	0	0	0	0	6	2	2	0	10	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	16	9	5	2	32	1	1	0	1	3	12	7	5	1	25	3	1	0	0	4

City Of Los Angeles

Department Of Transportation

MANUAL TRAFFIC COUNT SUMMARY

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

STREET:
North / Sounth: Mason

East/West: Rinaldi

Day: Wednesday, April 25, 2018 Weather: Sunny

Hours:

School Day: Yes District I/S CODE

	N/B	S/B	E/B	W/B
DUAL-WHEELED	265	100	82	302
BIKES	6	2	10	17
BUSES	19	3	2	22

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	245	7:30:00 AM	187	7:45:00 AM	106	7:30:00 AM	405	7:30:00 AM
PM PK 15 MIN	423	4:00:00 PM	97	##########	128	4:15:00 PM	221	3:30:00 PM
AM PK HOUR	839	7:15:00 AM	664	7:15:00 AM	375	7:15:00 AM	1498	7:15:00 AM
PM PK HOUR	1582	4:00:00 PM	370	3:00:00 PM	466	4:00:00 PM	807	3:30:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	65	151	561	777
8-9	37	104	476	617
9-10	17	90	351	458
3-4	101	190	934	1225
4-5	121	305	1156	1582
5-6	132	286	987	1405
TOTAL	473	1126	4465	6064

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	159	364	104	627
8-9	128	271	62	461
9-10	103	144	39	286
3-4	109	192	69	370
4-5	88	123	51	262
5-6	64	154	33	251
TOTAL	651	1248	358	2257

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
1404	3	0	1	0
1078	1	0	2	0
744	0	0	3	0
1595	0	1	0	3
1844	0	0	1	0
1656	1	0	0	0
8321	5	1	7	3

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	59	143	133	335
8-9	41	142	106	289
9-10	35	97	29	161
3-4	72	221	50	343
4-5	61	372	33	466
5-6	65	260	39	364
TOTAL	333	1235	390	1958

WESTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	1110	296	61	1467
8-9	1028	168	61	1257
9-10	544	114	35	693
3-4	515	189	96	800
4-5	491	168	114	773
5-6	538	158	108	804
TOTAL	4226	1093	475	5794

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
1802	4	0	0	0
1546	1	0	0	0
854	2	0	2	0
1143	0	0	0	0
1239	0	0	0	0
1168	1	0	0	0
7752	8	0	2	0

City Of Los Angeles

Department Of Transportation

MANUAL TRAFFIC COUNT SUMMARY

PCE ADJUSTED

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

STREET:
North / Sounth: Mason

East/West: Rinaldi

Day: Wednesday, April 25, 2018 Weather: Sunny

Hours:

School Day: Yes District I/S CODE

	N/B	S/B	E/B	W/B
DUAL-WHEELED	265	100	82	302
BIKES	0	0	0	0
BUSES	19	3	2	22

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	254	7:30:00 AM	189	7:45:00 AM	110	7:30:00 AM	418	7:30:00 AM
PM PK 15 MIN	431	4:00:00 PM	101	#########	132	4:15:00 PM	229	5:15:00 PM
AM PK HOUR	867	7:15:00 AM	675	7:15:00 AM	383	7:15:00 AM	1537	7:15:00 AM
PM PK HOUR	1614	4:00:00 PM	383	3:00:00 PM	478	4:00:00 PM	829	3:30:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	68	155	579	802
8-9	38	107	503	647
9-10	17	94	369	480
3-4	102	192	960	1253
4-5	124	307	1183	1614
5-6	135	287	1000	1421
TOTAL	482	1142	4592	6216

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	162	368	106	635
8-9	131	275	63	468
9-10	108	149	43	299
3-4	115	197	71	383
4-5	91	129	52	272
5-6	65	155	34	254
TOTAL	671	1271	368	2310

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
1437	0	0	0	0
1115	0	0	0	0
779	0	0	0	0
1636	0	0	0	0
1886	0	0	0	0
1675	0	0	0	0
8526	0	0	0	0

EASTBOUND Approach

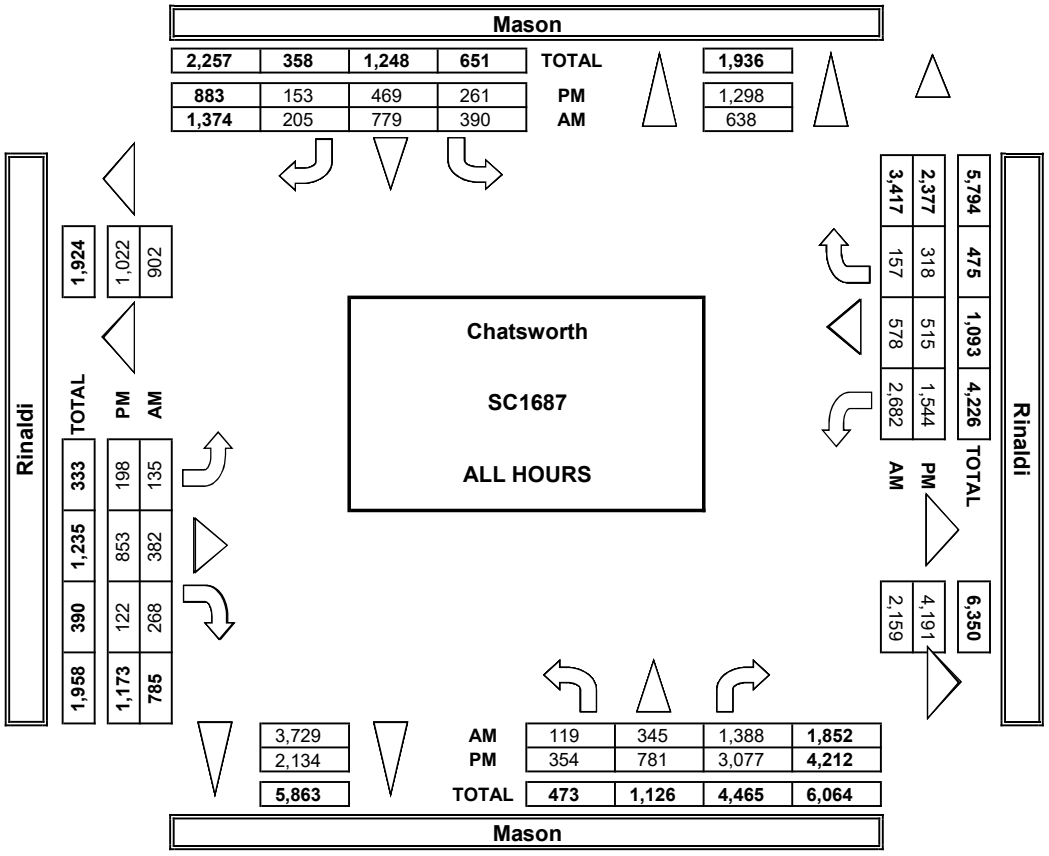
Hours	Lt	Th	Rt	Total
7-8	62	146	136	343
8-9	43	144	107	293
9-10	38	102	30	169
3-4	74	227	51	351
4-5	61	382	35	478
5-6	66	263	39	368
TOTAL	343	1263	396	2001

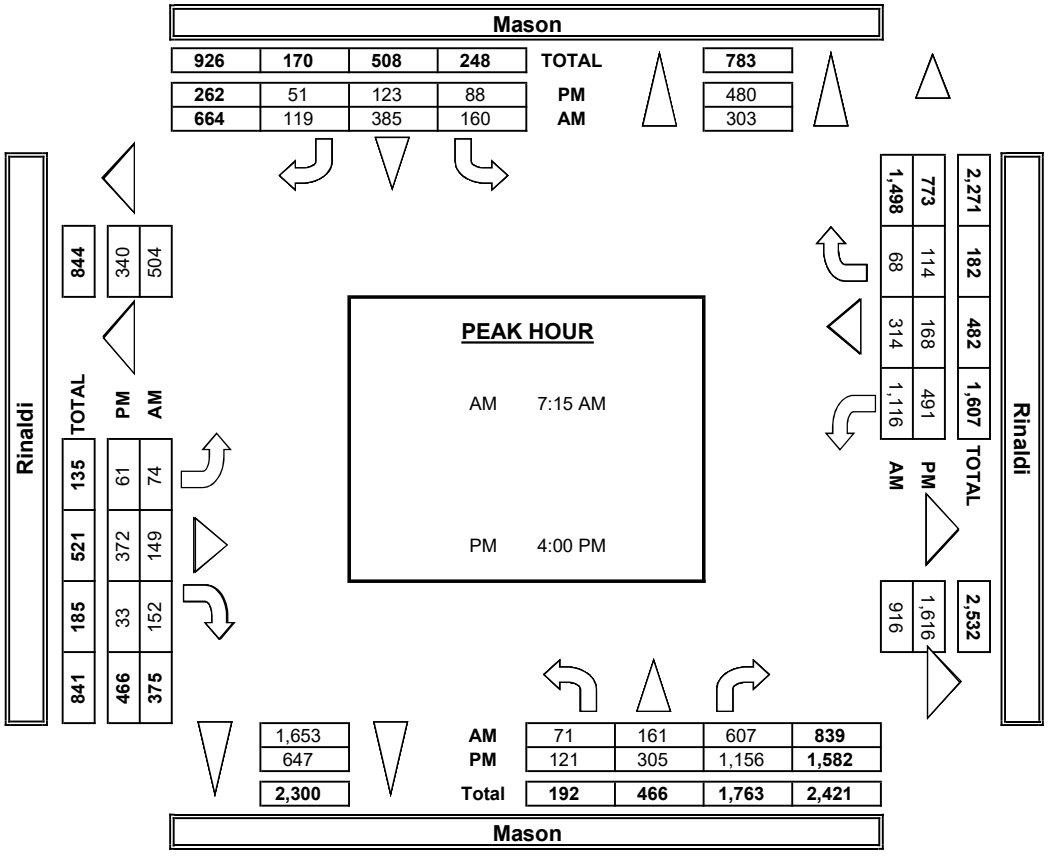
WESTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	1141	303	66	1509
8-9	1056	171	65	1291
9-10	572	119	39	730
3-4	538	191	99	828
4-5	506	169	115	789
5-6	552	162	108	822
TOTAL	4363	1114	491	5967

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
1852	0	0	0	0
1584	0	0	0	0
899	0	0	0	0
1179	0	0	0	0
1266	0	0	0	0
1189	0	0	0	0
7968	0	0	0	0

AimTD LLC
TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

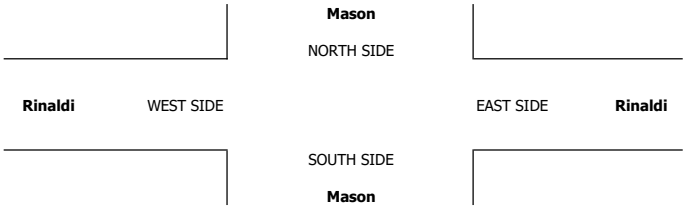
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Chatsworth	PROJECT #:	SC1687
4/25/18	NORTH & SOUTH:	Mason	LOCATION #:	5
WEDNESDAY	EAST & WEST:	Rinaldi	CONTROL:	SIGNAL

	NOTES:								
PCE Adjusted	Class	1	2	3	4	5	6		
	Factor	1	1.5	2	3	2	2		

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND (Mason)			SOUTHBOUND (Mason)			EASTBOUND (Rinaldi)			WESTBOUND (Rinaldi)				U-TURNS				
	LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 1	ET 3	ER 0	WL 2	WT 2	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	8	17	106	37	67	7	8	32	21	295	45	13	653					0
	7:15 AM	11	31	146	43	97	27	9	26	47	278	63	16	791					0
	7:30 AM	22	49	183	39	102	29	21	45	44	310	87	21	950					0
	7:45 AM	27	59	146	44	102	43	25	44	24	258	108	17	895					0
	8:00 AM	14	27	155	40	90	22	23	37	40	300	63	18	826					0
	8:15 AM	6	29	119	35	88	20	6	40	21	293	39	16	710					0
	8:30 AM	10	28	100	22	49	12	6	33	23	236	40	15	571					0
	8:45 AM	8	23	130	34	49	10	9	34	23	228	31	16	593					0
	9:00 AM	6	22	88	40	54	9	7	21	13	196	32	8	493					0
	9:15 AM	7	24	87	26	30	12	9	18	6	141	35	7	401					0
	9:30 AM	1	30	92	21	33	13	12	32	5	114	28	11	392					0
	9:45 AM	3	18	103	21	32	9	11	31	6	122	25	14	393					0
	VOLUMES	122	356	1,451	400	791	211	143	391	272	2,768	593	169	7,664	0	0	0	0	0
	APPROACH %	6%	18%	75%	29%	56%	15%	18%	49%	34%	78%	17%	5%						
	APP/DEPART	1,928	/	667	1,402	/	3,831	805	/	2,241	3,530	/	926	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	74	166	628	165	390	121	77	151	155	1,145	321	71	3,461					
	APPROACH %	8%	19%	72%	24%	58%	18%	20%	39%	40%	75%	21%	5%						
	PEAK HR FACTOR		0.855			0.893			0.873			0.919		0.911					
	APP/DEPART	867	/	314	675	/	1,690	383	/	944	1,537	/	515	0					
PM	03:00 PM	22	52	210	32	47	23	25	69	20	142	50	25	715					0
	3:15 PM	29	40	217	29	45	22	23	64	12	115	42	26	662					0
	3:30 PM	21	35	260	31	51	17	16	40	11	148	61	20	710					0
	3:45 PM	30	65	274	24	54	10	10	55	8	134	38	29	729					0
	4:00 PM	46	84	301	18	25	9	12	95	5	137	45	35	810					0
	4:15 PM	24	85	308	25	26	15	14	110	9	116	43	26	799					0
	4:30 PM	31	64	285	25	37	15	20	92	12	133	45	27	784					0
	4:45 PM	24	75	289	24	42	14	15	86	10	121	36	27	759					0
	5:00 PM	31	69	272	18	37	10	12	74	8	132	50	23	735					0
	5:15 PM	53	76	270	19	36	8	16	82	14	152	43	23	790					0
	5:30 PM	30	75	250	17	36	7	16	64	6	129	27	32	687					0
	5:45 PM	21	68	208	12	46	9	22	44	11	139	43	30	653					0
	VOLUMES	360	786	3,142	271	481	157	200	872	124	1,595	521	322	8,830	0	0	0	0	0
	APPROACH %	8%	18%	73%	30%	53%	17%	17%	73%	10%	65%	21%	13%						
	APP/DEPART	4,288	/	1,308	909	/	2,200	1,196	/	4,285	2,438	/	1,038	0					
	BEGIN PEAK HR		4:00 PM																
	VOLUMES	124	307	1,183	91	129	52	61	382	35	506	169	115	3,152					
	APPROACH %	8%	19%	73%	33%	47%	19%	13%	80%	7%	64%	21%	15%						
	PEAK HR FACTOR		0.936			0.861			0.904			0.913		0.973					
	APP/DEPART	1,614	/	483	272	/	669	478	/	1,656	789	/	345	0					



INTERSECTION TURNING MOVEMENT COUNTS

T1017

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Wed, Apr 25, 18

LOCATION: Chatsworth
NORTH & SOUTH: Porter Ranch
EAST & WEST: Rinaldi

PROJECT #: SC1687
LOCATION #: 6
CONTROL: SIGNAL

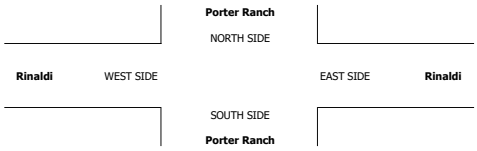
NOTES:

AM
PM
MD
OTHER
OTHER

N ▲ | ◄ W | E ► | S ▼

☑ All U-Turns to Left Turns

		NORTHBOUND Porter Ranch			SOUTHBOUND Porter Ranch			EASTBOUND Rinaldi			WESTBOUND Rinaldi				U-TURNS				
	LANES:	NL 2	NT 2	NR 1	SL 2	ST 2	SR 0	EL 2	ET 2	ER 1	WL 2	WT 2	WR 0	TOTAL	NB X	SB X	EB X	WB X	TTL
AM	7:00 AM	235	58	94	7	86	18	7	38	131	28	92	4	798	0	0	0	0	0
	7:15 AM	275	47	118	5	85	15	7	58	141	26	119	8	904	0	0	0	0	0
	7:30 AM	236	49	165	12	111	18	5	91	146	41	108	10	992	0	0	0	1	1
	7:45 AM	226	60	195	13	81	25	13	92	148	50	126	10	1,039	0	0	0	0	0
	8:00 AM	248	52	182	9	84	17	13	98	126	42	112	3	986	0	0	0	0	0
	8:15 AM	216	52	136	6	77	17	10	62	111	47	116	14	864	0	0	0	1	1
	8:30 AM	181	32	118	11	74	19	5	74	98	53	101	11	777	0	0	0	0	0
	8:45 AM	206	52	100	5	65	12	12	71	101	41	70	3	738	0	0	0	0	0
	9:00 AM	146	41	95	4	77	10	6	53	81	32	71	9	625	0	0	0	1	1
	9:15 AM	98	47	135	13	72	8	6	59	85	56	63	10	652	0	0	0	0	0
	9:30 AM	94	49	91	12	56	3	4	52	86	48	65	6	566	0	0	0	0	0
	9:45 AM	77	51	111	9	51	8	9	63	75	37	66	10	567	0	0	0	0	0
	VOLUMES	2,238	590	1,540	106	919	170	97	811	1,329	501	1,109	98	9,508	0	0	0	3	3
	APPROACH %	51%	14%	35%	9%	77%	14%	4%	36%	59%	29%	65%	6%						
	APP/DEPART	4,368	/	785	1,195	/	2,746	2,237	/	2,460	1,708	/	3,517	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	985	208	660	39	361	75	38	339	561	159	465	31	3,921					
	APPROACH %	53%	11%	36%	8%	76%	16%	4%	36%	60%	24%	71%	5%						
	PEAK HR FACTOR		0.961			0.842			0.927			0.880		0.943					
	APP/DEPART	1,853	/	277	475	/	1,080	938	/	1,039	655	/	1,525	0					
PM	03:00 PM	97	60	73	15	75	15	17	126	149	88	94	19	828	0	0	0	1	1
	3:15 PM	109	91	94	8	55	15	12	164	132	83	96	13	872	0	0	0	0	0
	3:30 PM	86	63	99	18	85	20	23	147	140	81	109	18	889	0	0	0	1	1
	3:45 PM	106	61	101	16	43	7	14	163	148	81	92	17	849	0	0	0	0	0
	4:00 PM	99	64	97	16	57	10	31	179	185	91	102	16	947	0	0	0	0	0
	4:15 PM	98	73	101	12	42	6	19	201	203	85	93	19	952	0	0	0	0	0
	4:30 PM	97	70	94	17	46	14	25	184	164	96	96	13	916	0	0	0	1	1
	4:45 PM	95	76	97	12	47	7	24	202	171	83	85	18	917	0	0	0	0	0
	5:00 PM	93	72	91	15	43	5	21	186	157	79	81	15	858	0	0	0	0	0
	5:15 PM	98	66	95	11	39	8	19	175	158	81	89	12	851	0	0	0	0	0
	5:30 PM	87	71	84	12	38	6	19	179	153	76	82	10	817	0	0	0	0	0
	5:45 PM	91	69	79	10	41	5	17	162	151	80	78	11	794	0	0	0	0	0
	VOLUMES	1,156	836	1,105	162	611	118	241	2,068	1,911	1,004	1,097	181	10,490	0	0	0	3	3
	APPROACH %	37%	27%	36%	18%	69%	13%	6%	49%	45%	44%	48%	8%						
	APP/DEPART	3,097	/	1,258	891	/	3,523	4,220	/	3,338	2,282	/	2,371	0					
	BEGIN PEAK HR		4:00 PM																
	VOLUMES	389	283	389	57	192	37	99	766	723	355	376	66	3,732					
	APPROACH %	37%	27%	37%	20%	67%	13%	6%	48%	46%	45%	47%	8%						
	PEAK HR FACTOR		0.975			0.861			0.939			0.953		0.980					
	APP/DEPART	1,061	/	448	286	/	1,269	1,588	/	1,213	797	/	802	0					



		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS					SCHOOL AGE PED				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	2	0	0	0	2	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
	7:45 AM	1	1	2	1	5	0	1	2	1	4	1	0	0	0	1	0	0	0	0	0
	8:00 AM	2	0	0	0	2	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0
	8:15 AM	0	2	0	0	2	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0
	8:30 AM	2	1	0	0	3	2	0	0	0	2	0	1	0	0	1	0	0	0	0	0
	8:45 AM	1	0	0	2	3	0	0	0	2	2	1	0	0	0	1	0	0	0	0	0
	9:00 AM	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
	9:15 AM	2	1	2	0	5	2	1	2	0	5	0	0	0	0	0	0	0	0	0	0
	9:30 AM	2	0	0	0	2	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0
	9:45 AM	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	TOTAL	14	5	4	4	27	9	3	4	4	20	5	2	0	0	7	0	0	0	0	0
PM	3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	4	1	2	0	7	4	0	1	0	5	0	1	0	0	1	0	0	1	0	1
	3:45 PM	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
	4:00 PM	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
	4:30 PM	2	0	0	0	2	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0
	4:45 PM	1	2	1	1	5	1	2	0	1	4	0	0	0	0	0	0	0	1	0	1
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	2	0	0	0	2	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0
	5:30 PM	1	1	0	1	3	1	0	0	1	2	0	1	0	0	1	0	0	0	0	0
	5:45 PM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
	TOTAL	11	6	4	2	23	7	3	2	2	14	4	3	0	0	7	0	0	2	0	2

City Of Los Angeles

Department Of Transportation

MANUAL TRAFFIC COUNT SUMMARY

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

STREET:
North / Sounth: Porter Ranch

East/West: Rinaldi

Day: Wednesday, April 25, 2018 Weather: Sunny

Hours:

School Day: Yes District I/S CODE

	N/B	S/B	E/B	W/B
DUAL-WHEELED	464	102	289	100
BIKES	0	0	5	9
BUSES	28	5	17	8

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	482	8:00:00 AM	141	7:30:00 AM	253	7:45:00 AM	186	7:45:00 AM
PM PK 15 MIN	294	3:15:00 PM	123	3:30:00 PM	423	4:15:00 PM	209	4:00:00 PM
AM PK HOUR	1853	7:15:00 AM	476	7:00:00 AM	938	7:15:00 AM	685	7:45:00 AM
PM PK HOUR	1070	3:15:00 PM	372	3:00:00 PM	1588	4:00:00 PM	804	3:30:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	972	214	572	1758
8-9	851	188	536	1575
9-10	415	188	432	1035
3-4	398	275	367	1040
4-5	389	283	389	1061
5-6	369	278	349	996
TOTAL	3394	1426	2645	7465

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	37	363	76	476
8-9	31	300	65	396
9-10	38	256	29	323
3-4	57	258	57	372
4-5	57	192	37	286
5-6	48	161	24	233
TOTAL	268	1530	288	2086

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
2234	1	0	2	0
1971	1	0	2	0
1358	1	0	5	0
1412	0	0	4	0
1347	2	0	1	0
1229	1	0	2	0
9551	6	0	16	0

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	32	279	566	877
8-9	40	305	436	781
9-10	25	227	327	579
3-4	66	600	569	1235
4-5	99	766	723	1588
5-6	76	702	619	1397
TOTAL	338	2879	3240	6457

WESTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	145	445	32	622
8-9	183	399	31	613
9-10	173	265	35	473
3-4	333	391	67	791
4-5	355	376	66	797
5-6	316	330	48	694
TOTAL	1505	2206	279	3990

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
1499	2	0	2	0
1394	2	0	0	0
1052	0	0	2	0
2026	0	0	1	1
2385	1	0	1	1
2091	1	0	0	0
10447	6	0	6	2

City Of Los Angeles

Department Of Transportation

MANUAL TRAFFIC COUNT SUMMARY

PCE ADJUSTED

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

STREET:
North / Sounth: Porter Ranch

East/West: Rinaldi

Day: Wednesday, April 25, 2018 Weather: Sunny

Hours:

School Day: Yes District I/S CODE

	N/B	S/B	E/B	W/B
DUAL-WHEELED	464	102	289	100
BIKES	0	0	0	0
BUSES	28	5	17	8

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	500	8:00:00 AM	143	7:30:00 AM	259	7:45:00 AM	190	7:45:00 AM
PM PK 15 MIN	306	3:15:00 PM	128	3:30:00 PM	431	4:15:00 PM	211	4:00:00 PM
AM PK HOUR	1915	7:15:00 AM	485	7:00:00 AM	966	7:15:00 AM	701	7:45:00 AM
PM PK HOUR	1103	3:15:00 PM	385	3:00:00 PM	1621	4:00:00 PM	811	3:30:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	1006	229	585	1819
8-9	881	201	549	1631
9-10	448	200	446	1093
3-4	421	283	373	1076
4-5	405	288	396	1088
5-6	383	282	354	1019
TOTAL	3542	1483	2701	7725

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	37	372	76	485
8-9	32	305	67	404
9-10	39	267	31	337
3-4	58	268	60	385
4-5	57	199	39	294
5-6	49	165	25	238
TOTAL	271	1575	297	2142

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
2304	0	0	0	0
2035	0	0	0	0
1430	0	0	0	0
1461	0	0	0	0
1382	0	0	0	0
1256	0	0	0	0
9867	0	0	0	0

EASTBOUND Approach

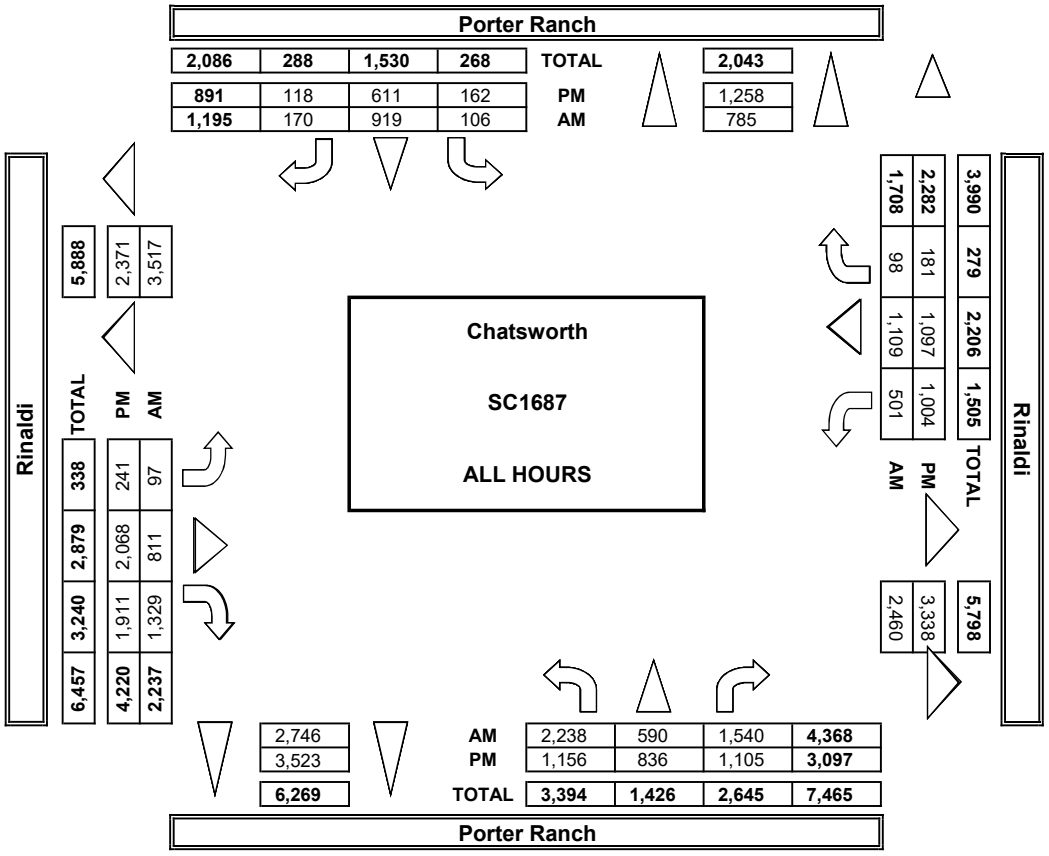
Hours	Lt	Th	Rt	Total
7-8	33	283	583	898
8-9	42	313	458	812
9-10	28	234	345	606
3-4	68	611	591	1269
4-5	100	778	744	1621
5-6	77	703	634	1413
TOTAL	346	2920	3353	6619

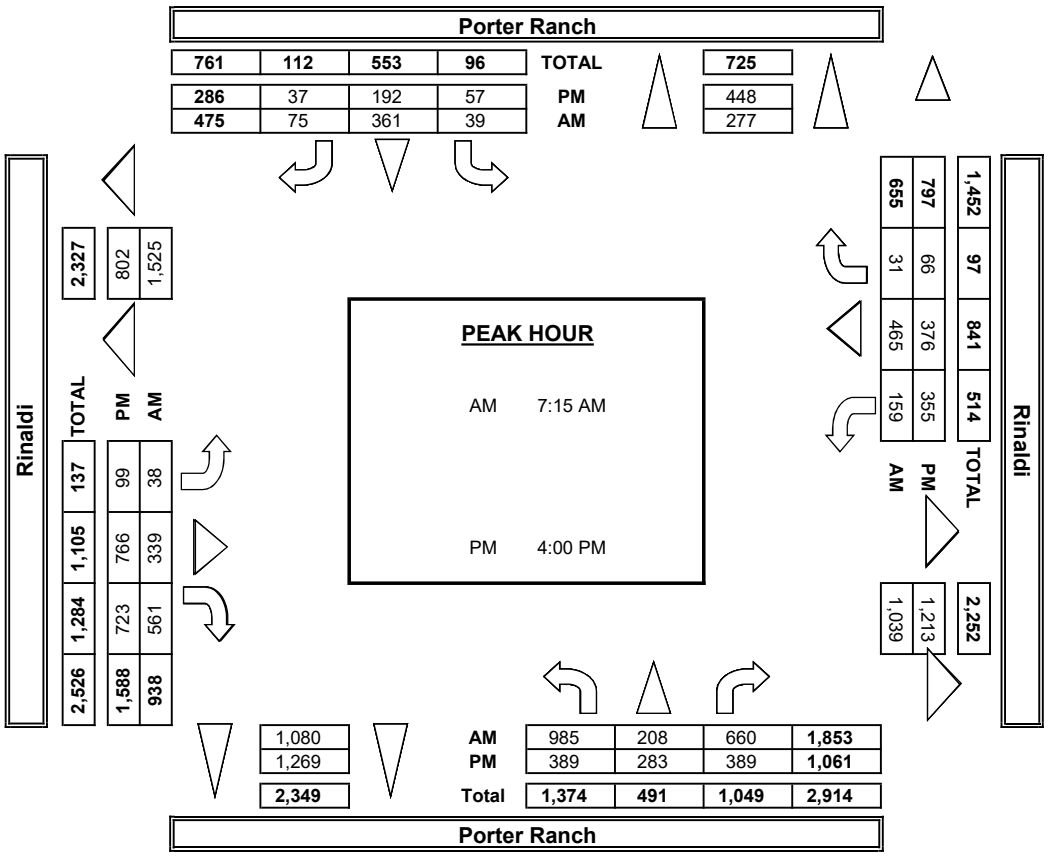
WESTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	150	451	34	635
8-9	192	405	32	628
9-10	179	272	37	487
3-4	339	392	68	799
4-5	360	377	66	803
5-6	319	331	48	698
TOTAL	1538	2227	284	4048

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
1532	0	0	0	0
1440	0	0	0	0
1093	0	0	0	0
2068	0	0	0	0
2424	0	0	0	0
2111	0	0	0	0
10667	0	0	0	0

AimTD LLC
TURNING MOVEMENT COUNTS





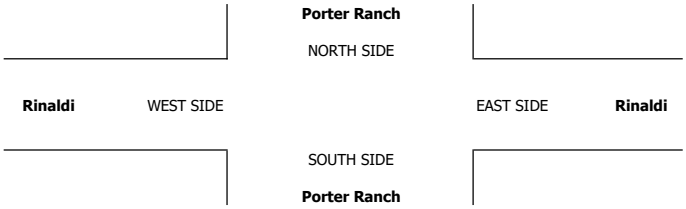
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Chatsworth	PROJECT #:	SC1687
4/25/18	NORTH & SOUTH:	Porter Ranch	LOCATION #:	6
WEDNESDAY	EAST & WEST:	Rinaldi	CONTROL:	SIGNAL

	NOTES:											
PCE Adjusted	Class	1	2	3	4	5	6			AM		▲ N
	Factor	1	1.5	2	3	2	2			PM		
										MD	◄ W	E ►
										OTHER		S
										OTHER		▼

		NORTHBOUND Porter Ranch			SOUTHBOUND Porter Ranch			EASTBOUND Rinaldi			WESTBOUND Rinaldi				U-TURNS				
	LANES:	NL 2	NT 2	NR 1	SL 2	ST 2	SR 0	EL 2	ET 2	ER 1	WL 2	WT 2	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	243	64	97	7	88	18	7	38	132	30	93	4	820					0
	7:15 AM	285	49	123	5	88	15	8	60	147	28	120	8	934					0
	7:30 AM	245	53	167	12	113	18	5	92	151	42	110	11	1,017					0
	7:45 AM	233	64	199	13	84	25	13	93	153	51	128	11	1,065					0
	8:00 AM	258	56	186	10	85	17	14	99	133	43	113	3	1,015					0
	8:15 AM	224	56	139	6	78	18	11	65	118	51	117	14	894					0
	8:30 AM	186	36	122	11	76	20	5	77	102	55	104	12	803					0
	8:45 AM	214	54	103	6	67	13	12	73	106	43	72	3	763					0
	9:00 AM	155	46	98	4	82	11	7	55	87	34	74	10	660					0
	9:15 AM	106	48	138	14	74	9	7	61	89	58	65	11	677					0
	9:30 AM	102	53	93	12	58	3	5	55	90	50	67	6	593					0
	9:45 AM	85	54	117	10	54	9	10	64	79	37	67	10	594					0
	VOLUMES	2,334	630	1,579	108	944	174	102	829	1,385	520	1,128	102	9,834	0	0	0	0	0
	APPROACH %	51%	14%	35%	9%	77%	14%	4%	36%	60%	30%	64%	6%						
	APP/DEPART	4,543	/	834	1,226	/	2,848	2,316	/	2,516	1,750	/	3,636	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	1,020	221	674	40	369	75	40	344	583	164	471	33	4,031					
	APPROACH %	53%	12%	35%	8%	76%	16%	4%	36%	60%	25%	71%	5%						
	PEAK HR FACTOR		0.958			0.844			0.934			0.878		0.946					
	APP/DEPART	1,915	/	294	483	/	1,115	966	/	1,057	667	/	1,566	0					
PM	03:00 PM	103	63	74	16	78	15	17	128	156	90	95	19	852					0
	3:15 PM	115	95	97	8	59	15	13	166	138	85	96	14	899					0
	3:30 PM	91	64	101	18	88	23	23	151	145	82	110	18	910					0
	3:45 PM	113	62	102	16	44	7	15	166	153	83	92	17	869					0
	4:00 PM	103	65	99	16	61	11	32	184	193	93	102	16	972					0
	4:15 PM	101	74	104	12	44	6	19	204	208	87	93	19	971					0
	4:30 PM	102	72	96	17	47	14	25	186	169	97	97	13	932					0
	4:45 PM	100	77	98	12	48	8	24	204	175	84	85	18	931					0
	5:00 PM	97	74	92	15	44	6	22	186	160	80	81	15	870					0
	5:15 PM	101	67	97	12	40	8	20	175	162	82	89	12	862					0
	5:30 PM	91	72	86	12	40	6	19	179	157	77	83	10	830					0
	5:45 PM	94	70	80	10	42	5	17	163	155	81	78	11	805					0
	VOLUMES	1,208	853	1,122	163	631	123	244	2,091	1,969	1,018	1,099	182	10,700	0	0	0	0	0
	APPROACH %	38%	27%	35%	18%	69%	13%	6%	49%	46%	44%	48%	8%						
	APP/DEPART	3,182	/	1,278	917	/	3,618	4,303	/	3,376	2,299	/	2,429	0					
	BEGIN PEAK HR		4:00 PM																
	VOLUMES	405	288	396	57	199	39	100	778	744	360	377	66	3,805					
	APPROACH %	37%	26%	36%	19%	68%	13%	6%	48%	46%	45%	47%	8%						
	PEAK HR FACTOR		0.976			0.845			0.940			0.953		0.979					
	APP/DEPART	1,088	/	453	294	/	1,303	1,621	/	1,230	803	/	820	0					



INTERSECTION TURNING MOVEMENT COUNTS

T1017

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Oct 23, 18

LOCATION: Porter Ranch
NORTH & SOUTH: Porter Ranch
EAST & WEST: SR-118 WB Ramps

PROJECT #: SC1956
LOCATION #: 1
CONTROL: SIGNAL

NOTES:
AM/PM NB queue

AM
PM
MD
OTHER
OTHER

N ▲ | ◄ W | E ► | S ▼

*Add U-Turns to Left Turns

		NORTHBOUND Porter Ranch			SOUTHBOUND Porter Ranch			EASTBOUND SR-118 WB Ramps			WESTBOUND SR-118 WB Ramps			
	LANES:	NL 1	NT 2	NR X	SL X	ST 1.5	SR 1.5	EL X	ET X	ER X	WL 0.3	WT 0.3	WR 1.3	TOTAL
AM	7:00 AM	3	68	0	0	193	30	0	0	0	4	0	395	693
	7:15 AM	0	69	0	0	213	38	0	0	0	2	0	381	703
	7:30 AM	2	89	0	0	244	60	0	0	0	2	0	369	766
	7:45 AM	0	81	0	0	236	66	0	0	0	4	1	388	776
	8:00 AM	2	55	0	0	187	59	0	0	0	4	0	393	700
	8:15 AM	2	46	0	0	195	41	0	0	0	4	0	339	627
	8:30 AM	2	74	0	0	179	47	0	0	0	3	1	287	593
	8:45 AM	0	46	0	0	164	42	0	0	0	3	1	291	547
	9:00 AM	4	52	0	0	166	36	0	0	0	3	1	255	517
	9:15 AM	6	46	0	0	154	35	0	0	0	6	1	179	427
	9:30 AM	3	49	0	0	165	32	0	0	0	5	1	143	398
	9:45 AM	4	52	0	0	157	50	0	0	0	3	1	106	373
	VOLUMES	28	727	0	0	2,253	536	0	0	0	43	7	3,526	7,120
	APPROACH %	4%	96%	0%	0%	81%	19%	0%	0%	0%	1%	0%	99%	
	APP/DEPART	755	/	4,253	2,789	/	2,296	0	/	0	3,576	/	571	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	4	294	0	0	880	223	0	0	0	12	1	1,531	2,945
	APPROACH %	1%	99%	0%	0%	80%	20%	0%	0%	0%	1%	0%	99%	
	PEAK HR FACTOR		0.819			0.907			0.000			0.972		0.949
	APP/DEPART	298	/	1,825	1,103	/	892	0	/	0	1,544	/	228	0
PM	03:00 PM	7	45	0	0	258	84	0	0	0	1	0	174	569
	3:15 PM	6	50	0	0	256	66	0	0	0	5	0	177	560
	3:30 PM	2	66	0	0	273	71	0	0	0	24	0	220	656
	3:45 PM	5	47	0	0	289	62	0	0	0	26	1	309	739
	4:00 PM	11	67	0	0	255	59	0	0	0	31	6	304	733
	4:15 PM	9	65	0	0	262	82	0	0	0	19	8	249	694
	4:30 PM	5	61	0	0	287	104	0	0	0	26	9	200	692
	4:45 PM	2	84	0	0	311	87	0	0	0	33	16	200	733
	5:00 PM	6	87	0	0	306	109	0	0	0	22	12	161	703
	5:15 PM	4	87	0	0	310	102	0	0	0	32	9	151	695
	5:30 PM	4	89	0	0	297	101	0	0	0	22	8	169	690
	5:45 PM	7	96	0	0	237	105	0	0	0	40	9	177	671
	VOLUMES	68	844	0	0	3,341	1,032	0	0	0	281	78	2,491	8,135
	APPROACH %	7%	93%	0%	0%	76%	24%	0%	0%	0%	10%	3%	87%	
	APP/DEPART	912	/	3,335	4,373	/	3,622	0	/	0	2,850	/	1,178	0
	BEGIN PEAK HR		3:45 PM											
	VOLUMES	30	240	0	0	1,093	307	0	0	0	102	24	1,062	2,858
	APPROACH %	11%	89%	0%	0%	78%	22%	0%	0%	0%	9%	2%	89%	
	PEAK HR FACTOR		0.865			0.895			0.000			0.871		0.967
	APP/DEPART	270	/	1,302	1,400	/	1,195	0	/	0	1,188	/	361	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

Porter Ranch
NORTH SIDE

SR-118 WB Ramps WEST SIDE EAST SIDE **SR-118 WB Ramps**

SOUTH SIDE
Porter Ranch

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS					SCHOOL AGE PED				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:00 AM	1	0	0	1	2	1	0	0	1	2	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	1	0	1	3	5	1	0	1	3	5	0	0	0	0	0	0	0	0	0	0
PM	3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	TOTAL	0	0	2	0	2	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0

City Of Los Angeles

Department Of Transportation

MANUAL TRAFFIC COUNT SUMMARY

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

STREET:
North / Sounth: Porter Ranch

East/West: SR-118 WB Ramps

Day: Tuesday, October 23, 2018 Weather: Sunny

Hours:

School Day: Yes District I/S CODE

	N/B	S/B	E/B	W/B
DUAL-WHEELED	119	452	0	395
BIKES	2	0	0	0
BUSES	3	11	0	31

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	91	7:30:00 AM	304	7:30:00 AM	0		399	
PM PK 15 MIN	103	5:45:00 PM	415	5:00:00 PM	0		341	
AM PK HOUR	312	7:00:00 AM	1103	7:15:00 AM	0		1546	7:00:00 AM
PM PK HOUR	380	5:00:00 PM	1623	4:45:00 PM	0		1197	3:30:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	5	307	0	312
8-9	6	221	0	227
9-10	17	199	0	216
3-4	20	208	0	228
4-5	27	277	0	304
5-6	21	359	0	380
TOTAL	96	1571	0	1667

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	0	886	194	1080
8-9	0	725	189	914
9-10	0	642	153	795
3-4	0	1076	283	1359
4-5	0	1115	332	1447
5-6	0	1150	417	1567
TOTAL	0	5594	1568	7162

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
1392	0	0	0	0
1141	0	0	0	0
1011	0	0	1	0
1587	0	0	0	0
1751	0	0	0	0
1947	0	0	0	0
8829	0	0	1	0

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	0	0	0	0
8-9	0	0	0	0
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	0	0	0	0

WESTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	12	1	1533	1546
8-9	14	2	1310	1326
9-10	17	4	683	704
3-4	56	1	880	937
4-5	109	39	953	1101
5-6	116	38	658	812
TOTAL	324	85	6017	6426

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
1546	1	0	0	0
1326	1	0	1	0
704	1	0	0	0
937	0	0	0	0
1101	0	0	0	0
812	0	0	0	0
6426	3	0	1	0

City Of Los Angeles

Department Of Transportation

MANUAL TRAFFIC COUNT SUMMARY

PCE ADJUSTED

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

STREET:
North / Sounth: Porter Ranch

East/West: SR-118 WB Ramps

Day: Tuesday, October 23, 2018 Weather: Sunny

Hours:

School Day: Yes District I/S CODE

	N/B	S/B	E/B	W/B
DUAL-WHEELED	119	452	0	395
BIKES	0	0	0	0
BUSES	3	11	0	31

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	95	7:30:00 AM	315	7:30:00 AM	0		412	
PM PK 15 MIN	105	5:45:00 PM	425	5:00:00 PM	0		348	
AM PK HOUR	327	7:00:00 AM	1136	7:15:00 AM	0		1587	7:00:00 AM
PM PK HOUR	388	5:00:00 PM	1662	4:45:00 PM	0		1238	3:30:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	6	321	0	327
8-9	7	228	0	235
9-10	20	212	0	232
3-4	22	213	0	235
4-5	28	286	0	314
5-6	23	366	0	388
TOTAL	105	1625	0	1730

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	0	906	203	1109
8-9	0	758	195	953
9-10	0	670	161	831
3-4	0	1132	292	1424
4-5	0	1143	339	1482
5-6	0	1173	429	1602
TOTAL	0	5781	1618	7399

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
1436	0	0	0	0
1188	0	0	0	0
1062	0	0	0	0
1658	0	0	0	0
1796	0	0	0	0
1990	0	0	0	0
9129	0	0	0	0

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	0	0	0	0
8-9	0	0	0	0
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	0	0	0	0

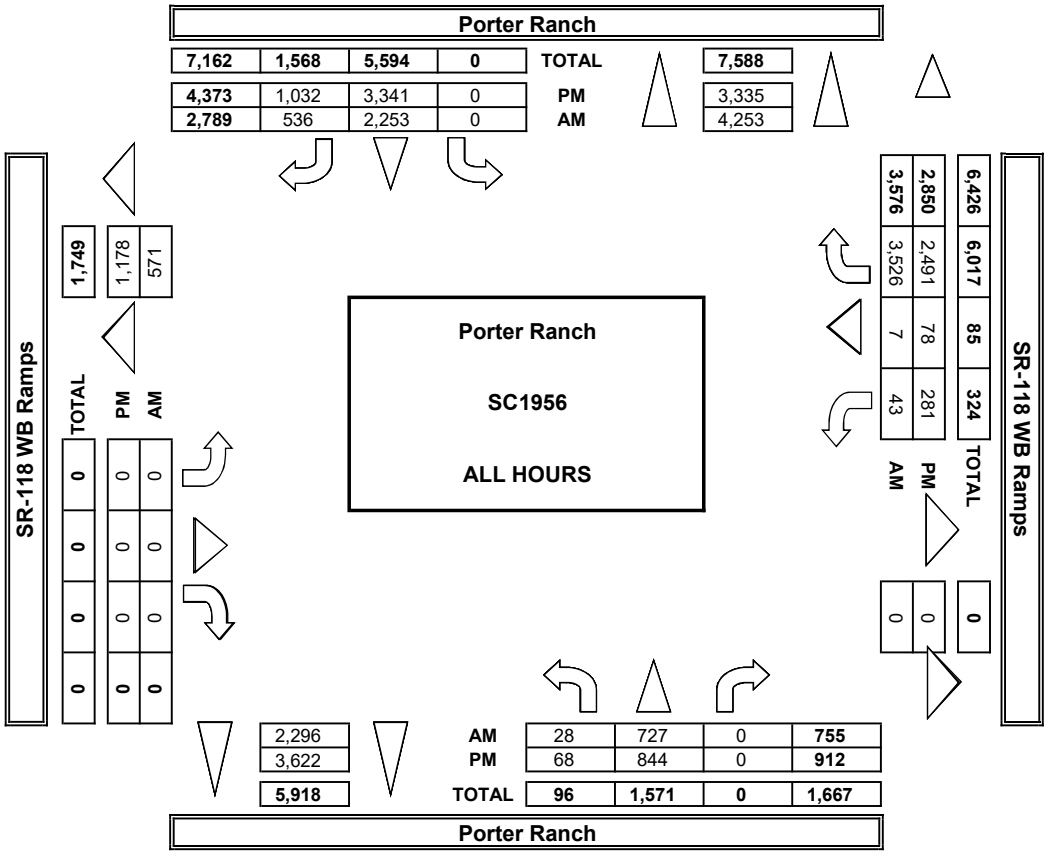
WESTBOUND Approach

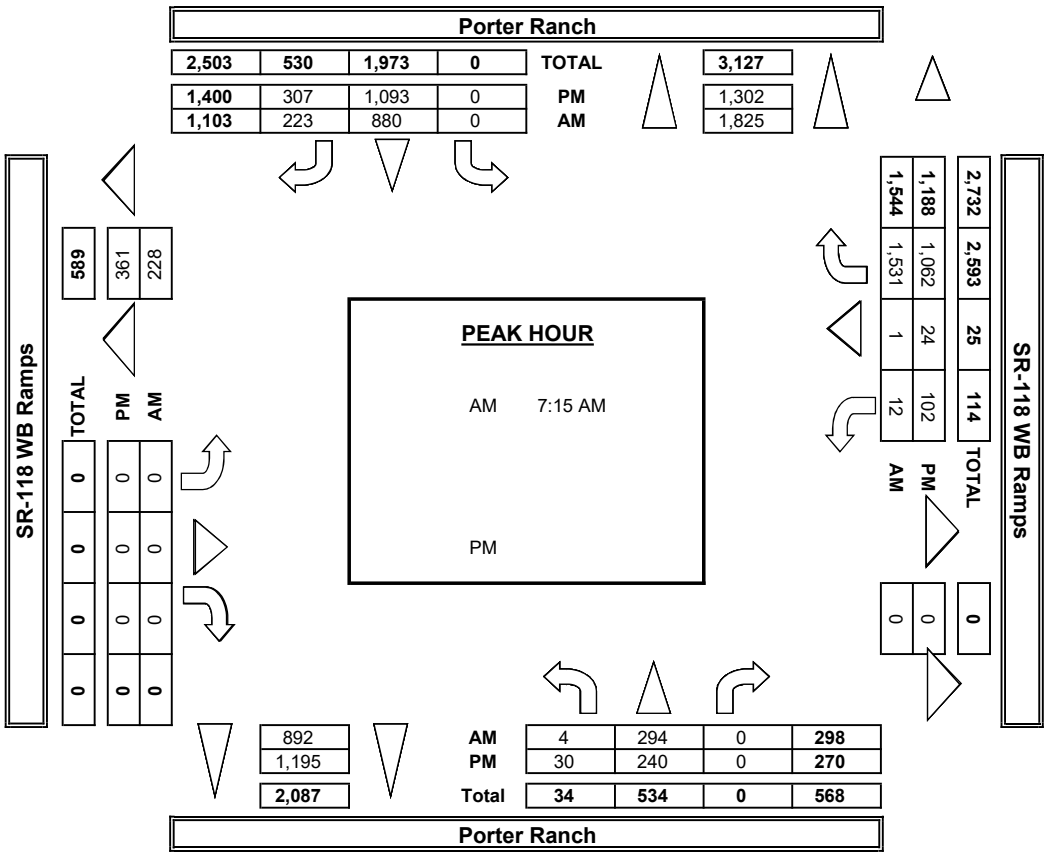
Hours	Lt	Th	Rt	Total
7-8	14	1	1572	1587
8-9	15	3	1349	1366
9-10	19	4	723	745
3-4	59	2	916	977
4-5	112	40	981	1132
5-6	122	39	689	849
TOTAL	339	88	6229	6655

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
1587	0	0	0	0
1366	0	0	0	0
745	0	0	0	0
977	0	0	0	0
1132	0	0	0	0
849	0	0	0	0
6655	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





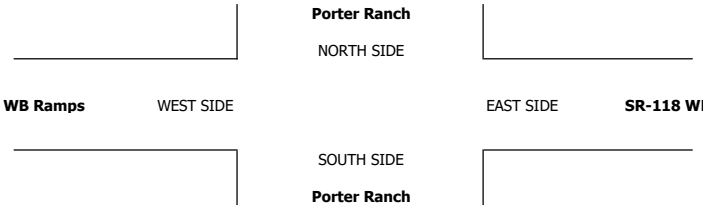
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Porter Ranch	PROJECT #:	SC1956
10/23/18	NORTH & SOUTH:	Porter Ranch	LOCATION #:	1
TUESDAY	EAST & WEST:	SR-118 WB Ramps	CONTROL:	SIGNAL

	NOTES:											
PCE Adjusted	Class	1	2	3	4	5	6			AM		▲ N
	Factor	1	1.5	2	3	2	2			PM		
										MD	◄ W	E ►
										OTHER		S ▼
										OTHER		

	NORTHBOUND Porter Ranch			SOUTHBOUND Porter Ranch			EASTBOUND SR-118 WB Ramps			WESTBOUND SR-118 WB Ramps				U-TURNS				
LANES:	NL 1	NT 2	NR X	SL X	ST 1.5	SR 1.5	EL X	ET X	ER X	WL 0.3	WT 0.3	WR 1.3	TOTAL	NB	SB	EB	WB	TTL
AM 7:00 AM	4	75	0	0	196	31	0	0	0	5	0	407	717					0
7:15 AM	0	72	0	0	219	41	0	0	0	2	0	392	724					0
7:30 AM	2	93	0	0	251	64	0	0	0	2	0	377	788					0
7:45 AM	0	82	0	0	241	68	0	0	0	5	1	397	793					0
8:00 AM	2	56	0	0	193	61	0	0	0	4	0	404	719					0
8:15 AM	3	48	0	0	200	42	0	0	0	5	0	350	646					0
8:30 AM	3	77	0	0	192	49	0	0	0	3	1	297	620					0
8:45 AM	0	49	0	0	174	44	0	0	0	3	2	299	569					0
9:00 AM	5	56	0	0	171	38	0	0	0	4	1	267	541					0
9:15 AM	7	49	0	0	160	38	0	0	0	7	1	192	453					0
9:30 AM	3	51	0	0	174	34	0	0	0	6	1	153	421					0
9:45 AM	5	56	0	0	165	52	0	0	0	3	1	112	393					0
VOLUMES	33	761	0	0	2,334	559	0	0	0	47	8	3,643	7,383	0	0	0	0	0
APPROACH %	4%	96%	0%	0%	81%	19%	0%	0%	0%	1%	0%	99%						
APP/DEPART	793	/	4,404	2,893	/	2,381	0	/	0	3,697	/	599	0					
BEGIN PEAK HR		7:15 AM																
VOLUMES	4	302	0	0	904	233	0	0	0	13	1	1,569	3,024					
APPROACH %	1%	99%	0%	0%	80%	20%	0%	0%	0%	1%	0%	99%						
PEAK HR FACTOR		0.808			0.903			0.000			0.971		0.953					
APP/DEPART	306	/	1,870	1,136	/	916	0	/	0	1,582	/	238	0					
PM 03:00 PM	8	45	0	0	275	88	0	0	0	1	0	184	601					0
3:15 PM	6	53	0	0	270	68	0	0	0	6	0	183	586					0
3:30 PM	3	68	0	0	289	73	0	0	0	25	0	231	687					0
3:45 PM	5	48	0	0	298	64	0	0	0	28	2	318	762					0
4:00 PM	11	68	0	0	261	60	0	0	0	32	6	311	747					0
4:15 PM	10	67	0	0	269	85	0	0	0	19	9	259	716					0
4:30 PM	5	65	0	0	294	107	0	0	0	28	9	207	714					0
4:45 PM	3	87	0	0	320	89	0	0	0	34	16	205	751					0
5:00 PM	7	90	0	0	312	113	0	0	0	24	12	170	727					0
5:15 PM	5	88	0	0	316	104	0	0	0	33	10	157	711					0
5:30 PM	4	91	0	0	305	105	0	0	0	23	8	175	710					0
5:45 PM	8	98	0	0	241	107	0	0	0	42	10	187	691					0
VOLUMES	72	865	0	0	3,447	1,060	0	0	0	292	80	2,586	8,401	0	0	0	0	0
APPROACH %	8%	92%	0%	0%	76%	24%	0%	0%	0%	10%	3%	87%						
APP/DEPART	937	/	3,450	4,507	/	3,739	0	/	0	2,958	/	1,212	0					
BEGIN PEAK HR		3:45 PM																
VOLUMES	31	247	0	0	1,121	314	0	0	0	106	25	1,095	2,938					
APPROACH %	11%	89%	0%	0%	78%	22%	0%	0%	0%	9%	2%	89%						
PEAK HR FACTOR		0.878			0.896			0.000			0.880		0.965					
APP/DEPART	278	/	1,342	1,435	/	1,227	0	/	0	1,226	/	370	0					



INTERSECTION TURNING MOVEMENT COUNTS

T1017

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Oct 23, 18

LOCATION: Porter Ranch
NORTH & SOUTH: Porter Ranch
EAST & WEST: SR-118 EB Ramps

PROJECT #: SC1956
LOCATION #: 2
CONTROL: SIGNAL

NOTES:
AM EB queue

AM
PM
MD
OTHER
OTHER

N ▲ S ▼ E ► ◄ W

☑ All U-Turns to Left Turns

	NORTHBOUND Porter Ranch			SOUTHBOUND Porter Ranch			EASTBOUND SR-118 EB Ramps			WESTBOUND SR-118 EB Ramps			
LANES:	NL X	NT 1.5	NR 0.5	SL 1.5	ST 0.5	SR X	EL 1.3	ET 0.3	ER 0.3	WL X	WT X	WR X	TOTAL
7:00 AM	0	7	4	195	2	0	64	0	0	0	0	0	272
7:15 AM	0	1	0	213	2	0	67	2	4	0	0	0	289
7:30 AM	0	1	5	241	5	0	89	1	3	0	0	0	345
7:45 AM	0	4	5	231	9	0	77	4	4	0	0	0	334
8:00 AM	0	4	7	180	6	0	52	1	3	0	0	0	253
8:15 AM	0	3	2	195	4	0	45	0	3	0	0	0	252
8:30 AM	0	3	4	178	4	0	73	1	2	0	0	0	265
8:45 AM	0	6	1	161	6	0	40	0	2	0	0	0	216
9:00 AM	0	4	2	167	2	0	51	2	1	0	0	0	229
9:15 AM	0	7	4	150	10	0	45	1	1	0	0	0	218
9:30 AM	0	1	9	164	6	0	51	3	1	0	0	0	235
9:45 AM	0	2	1	158	2	0	53	2	1	0	0	0	219
VOLUMES	0	43	44	2,233	58	0	707	17	25	0	0	0	3,127
APPROACH %	0%	49%	51%	97%	3%	0%	94%	2%	3%	0%	0%	0%	
APP/DEPART	87	/	754	2,291	/	83	749	/	2,290	0	/	0	0
BEGIN PEAK HR		7:00 AM											
VOLUMES	0	13	14	880	18	0	297	7	11	0	0	0	1,240
APPROACH %	0%	48%	52%	98%	2%	0%	94%	2%	3%	0%	0%	0%	
PEAK HR FACTOR		0.614			0.913			0.847			0.000		0.899
APP/DEPART	27	/	311	898	/	29	315	/	900	0	/	0	0
03:00 PM	0	10	0	252	7	0	42	1	2	0	0	0	314
3:15 PM	0	10	4	252	9	0	46	2	1	0	0	0	324
3:30 PM	0	16	2	280	17	0	52	1	1	0	0	0	369
3:45 PM	0	17	7	300	15	0	35	0	3	0	0	0	377
4:00 PM	0	29	3	252	34	0	49	2	2	0	0	0	371
4:15 PM	0	20	4	261	20	0	54	2	7	0	0	0	368
4:30 PM	0	19	9	291	22	0	46	3	2	0	0	0	392
4:45 PM	0	29	8	309	35	0	56	2	6	0	0	0	445
5:00 PM	0	34	7	299	29	0	59	1	2	0	0	0	431
5:15 PM	0	29	5	306	33	0	61	1	1	0	0	0	436
5:30 PM	0	31	12	296	23	0	62	4	5	0	0	0	433
5:45 PM	0	28	4	244	33	0	75	2	4	0	0	0	390
VOLUMES	0	272	65	3,342	277	0	637	21	36	0	0	0	4,650
APPROACH %	0%	81%	19%	92%	8%	0%	92%	3%	5%	0%	0%	0%	
APP/DEPART	337	/	912	3,619	/	313	694	/	3,425	0	/	0	0
BEGIN PEAK HR		4:45 PM											
VOLUMES	0	123	32	1,210	120	0	238	8	14	0	0	0	1,745
APPROACH %	0%	79%	21%	91%	9%	0%	92%	3%	5%	0%	0%	0%	
PEAK HR FACTOR		0.901			0.967			0.915			0.000		0.980
APP/DEPART	155	/	363	1,330	/	134	260	/	1,248	0	/	0	0

U-TURNS

	NB	SB	EB	WB	TTL
AM	0	4	0	0	4
PM	0	3	0	0	3

Porter Ranch
NORTH SIDE

SR-118 EB Ramps WEST SIDE EAST SIDE **SR-118 EB Ramps**

SOUTH SIDE
Porter Ranch

ALL PED AND BIKE

	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
AM TOTAL	0	1	1	3	5
PM TOTAL	0	0	2	0	2

PEDESTRIAN CROSSINGS

	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
AM TOTAL	0	1	1	3	5
PM TOTAL	0	0	1	0	1

BICYCLE CROSSINGS

	NS	SS	ES	WS	TOTAL
AM TOTAL	0	0	0	0	0
PM TOTAL	0	0	1	0	1

SCHOOL AGE PED

	NS	SS	ES	WS	TOTAL
AM TOTAL	0	0	0	0	0
PM TOTAL	0	0	0	0	0

City Of Los Angeles

Department Of Transportation

MANUAL TRAFFIC COUNT SUMMARY

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

STREET:
North / Sounth: Porter Ranch

East/West: SR-118 EB Ramps

Day: Tuesday, October 23, 2018 Weather: Sunny

Hours:

School Day: Yes District I/S CODE

	N/B	S/B	E/B	W/B
DUAL-WHEELED	41	388	98	0
BIKES	1	0	0	0
BUSES	0	7	3	0

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	11	9:15:00 AM	246	7:30:00 AM	93	7:30:00 AM	0	9:45:00 AM
PM PK 15 MIN	43	5:30:00 PM	344	4:45:00 PM	81	5:45:00 PM	0	5:45:00 PM
AM PK HOUR	34	8:45:00 AM	898	7:00:00 AM	315	7:00:00 AM	0	
PM PK HOUR	155	4:45:00 PM	1330	4:45:00 PM	277	5:00:00 PM	0	

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	0	13	14	27
8-9	0	16	14	30
9-10	0	14	16	30
3-4	0	53	13	66
4-5	0	97	24	121
5-6	0	122	28	150
TOTAL	0	315	109	424

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	880	18	0	898
8-9	714	20	0	734
9-10	639	20	0	659
3-4	1084	48	0	1132
4-5	1113	111	0	1224
5-6	1145	118	0	1263
TOTAL	5575	335	0	5910

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
925	0	0	0	0
764	1	0	0	0
689	0	0	0	0
1198	0	0	0	0
1345	0	0	0	0
1413	0	0	0	0
6334	1	0	0	0

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	297	7	11	315
8-9	210	2	10	222
9-10	200	8	4	212
3-4	175	4	7	186
4-5	205	9	17	231
5-6	257	8	12	277
TOTAL	1344	38	61	1443

WESTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	0	0	0	0
8-9	0	0	0	0
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	0	0	0	0

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
315	1	0	0	0
222	2	0	1	0
212	0	0	0	0
186	0	0	0	0
231	0	0	0	0
277	0	0	1	0
1443	3	0	2	0

City Of Los Angeles

Department Of Transportation

MANUAL TRAFFIC COUNT SUMMARY

PCE ADJUSTED

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

STREET:
North / Sounth: Porter Ranch

East/West: SR-118 EB Ramps

Day: Tuesday, October 23, 2018 Weather: Sunny

Hours:

School Day: Yes District I/S CODE

	N/B	S/B	E/B	W/B
DUAL-WHEELED	41	388	98	0
BIKES	0	0	0	0
BUSES	0	7	3	0

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	14	7:00:00 AM	253	7:30:00 AM	97	7:30:00 AM	0	9:45:00 AM
PM PK 15 MIN	44	5:30:00 PM	353	4:45:00 PM	82	5:45:00 PM	0	5:45:00 PM
AM PK HOUR	37	8:45:00 AM	919	7:00:00 AM	328	7:00:00 AM	0	
PM PK HOUR	162	4:45:00 PM	1362	4:45:00 PM	282	5:00:00 PM	0	

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	0	16	16	31
8-9	0	18	15	32
9-10	0	15	18	32
3-4	0	56	13	69
4-5	0	101	26	127
5-6	0	125	30	155
TOTAL	0	329	116	445

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	900	19	0	919
8-9	747	21	0	768
9-10	666	23	0	689
3-4	1141	50	0	1191
4-5	1140	115	0	1254
5-6	1170	122	0	1292
TOTAL	5763	349	0	6111

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
950	0	0	0	0
800	0	0	0	0
721	0	0	0	0
1259	0	0	0	0
1381	0	0	0	0
1446	0	0	0	0
6556	0	0	0	0

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	309	8	12	328
8-9	216	2	10	228
9-10	215	9	5	228
3-4	179	4	7	190
4-5	212	10	18	239
5-6	262	8	12	282
TOTAL	1393	40	63	1495

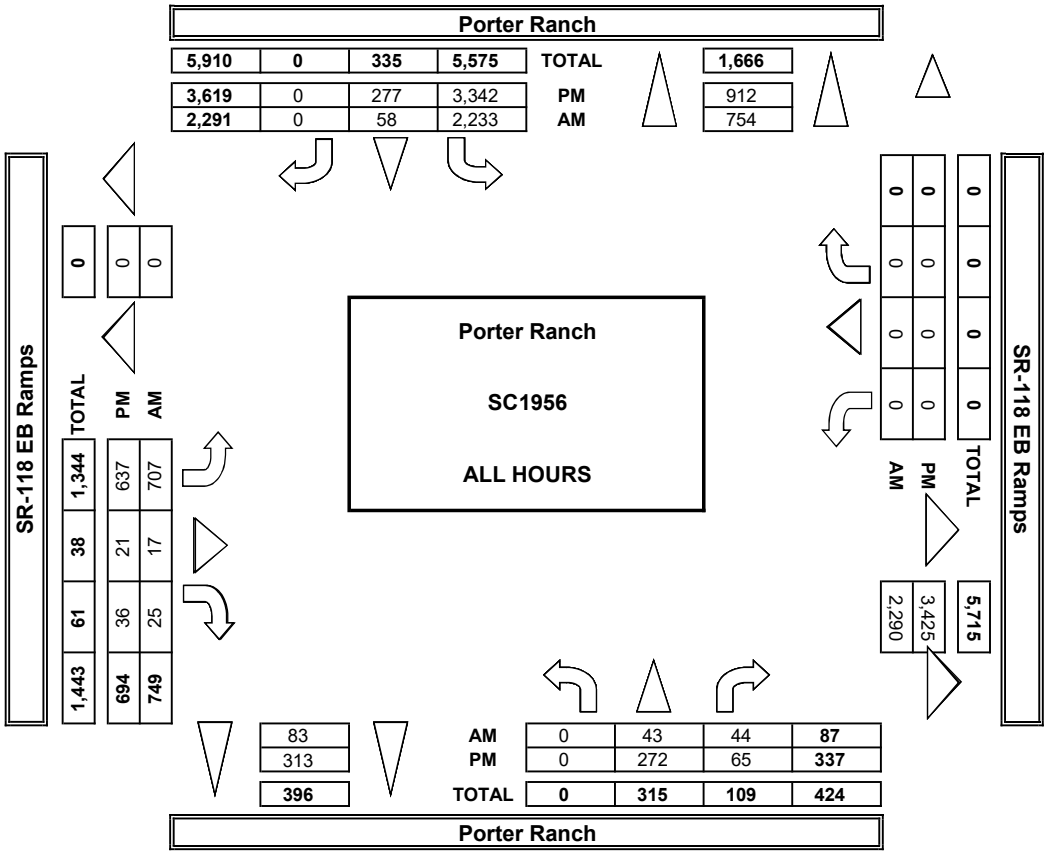
WESTBOUND Approach

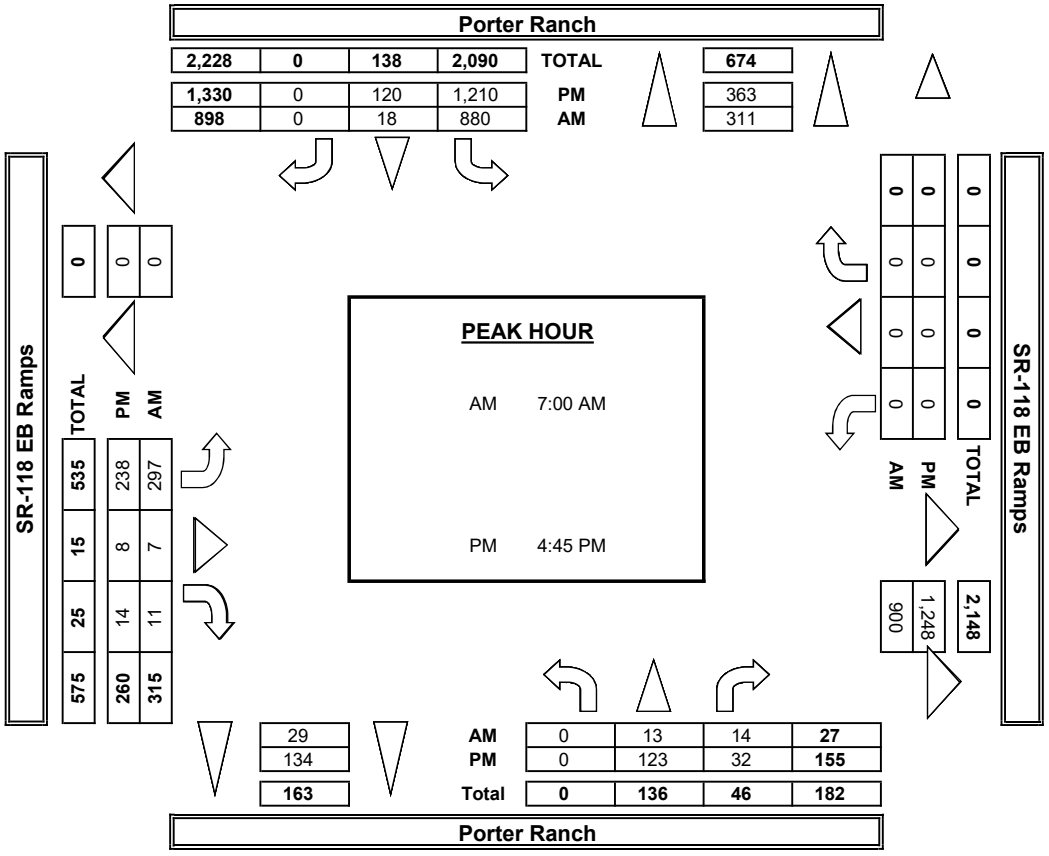
Hours	Lt	Th	Rt	Total
7-8	0	0	0	0
8-9	0	0	0	0
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	0	0	0	0

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
328	0	0	0	0
228	0	0	0	0
228	0	0	0	0
190	0	0	0	0
239	0	0	0	0
282	0	0	0	0
1495	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

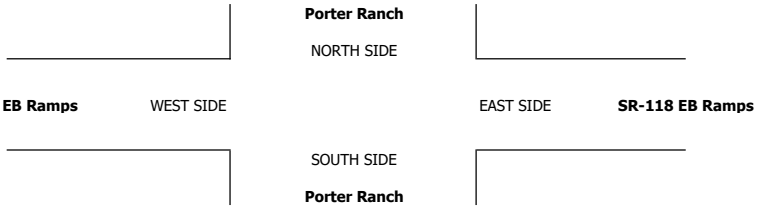
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Porter Ranch	PROJECT #:	SC1956
10/23/18	NORTH & SOUTH:	Porter Ranch	LOCATION #:	2
TUESDAY	EAST & WEST:	SR-118 EB Ramps	CONTROL:	SIGNAL

	NOTES:								
PCE Adjusted	Class	1	2	3	4	5	6		
	Factor	1	1.5	2	3	2	2		

AM PM MD OTHER OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND Porter Ranch			SOUTHBOUND Porter Ranch			EASTBOUND SR-118 EB Ramps			WESTBOUND SR-118 EB Ramps				U-TURNS				
	LANES:	NL X	NT 1.5	NR 0.5	SL 1.5	ST 0.5	SR X	EL 1.3	ET 0.3	ER 0.3	WL X	WT X	WR X	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	10	5	198	3	0	69	0	0	0	0	0	284					0
	7:15 AM	0	1	0	219	2	0	70	2	5	0	0	0	298					0
	7:30 AM	0	1	6	248	5	0	93	1	3	0	0	0	356					0
	7:45 AM	0	4	6	236	10	0	78	5	4	0	0	0	341					0
	8:00 AM	0	4	7	186	6	0	52	1	3	0	0	0	259					0
	8:15 AM	0	4	3	200	5	0	46	0	3	0	0	0	260					0
	8:30 AM	0	3	4	191	4	0	76	1	2	0	0	0	281					0
	8:45 AM	0	7	1	170	7	0	42	0	2	0	0	0	228					0
	9:00 AM	0	4	2	173	2	0	56	2	1	0	0	0	239					0
	9:15 AM	0	8	4	156	11	0	49	1	1	0	0	0	229					0
	9:30 AM	0	1	11	172	8	0	53	4	1	0	0	0	249					0
	9:45 AM	0	2	1	166	2	0	58	2	2	0	0	0	233					0
	VOLUMES	0	48	48	2,313	63	0	740	18	26	0	0	0	3,254	0	0	0	0	0
	APPROACH %	0%	50%	50%	97%	3%	0%	94%	2%	3%	0%	0%	0%						
	APP/DEPART	95	/	788	2,375	/	89	784	/	2,378	0	/	0	0					
	BEGIN PEAK HR		7:00 AM																
	VOLUMES	0	16	16	900	19	0	309	8	12	0	0	0	1,278					
	APPROACH %	0%	50%	50%	98%	2%	0%	94%	2%	4%	0%	0%	0%						
	PEAK HR FACTOR		0.554			0.908			0.850			0.000		0.897					
	APP/DEPART	31	/	325	919	/	31	328	/	923	0	/	0	0					
PM	03:00 PM	0	11	0	269	8	0	43	1	2	0	0	0	332					0
	3:15 PM	0	11	4	266	10	0	48	2	1	0	0	0	342					0
	3:30 PM	0	17	2	296	18	0	54	1	1	0	0	0	387					0
	3:45 PM	0	18	7	311	16	0	35	0	3	0	0	0	389					0
	4:00 PM	0	30	4	257	35	0	50	2	3	0	0	0	379					0
	4:15 PM	0	21	4	268	20	0	56	2	7	0	0	0	377					0
	4:30 PM	0	20	9	299	23	0	49	4	2	0	0	0	405					0
	4:45 PM	0	31	10	317	37	0	58	2	7	0	0	0	459					0
	5:00 PM	0	36	8	306	31	0	61	1	2	0	0	0	444					0
	5:15 PM	0	29	5	312	34	0	62	1	1	0	0	0	444					0
	5:30 PM	0	32	13	304	24	0	63	4	5	0	0	0	444					0
	5:45 PM	0	29	4	249	34	0	76	2	4	0	0	0	398					0
	VOLUMES	0	281	69	3,450	286	0	653	22	37	0	0	0	4,797	0	0	0	0	0
	APPROACH %	0%	80%	20%	92%	8%	0%	92%	3%	5%	0%	0%	0%						
	APP/DEPART	350	/	934	3,736	/	323	711	/	3,540	0	/	0	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	0	127	35	1,238	124	0	244	8	15	0	0	0	1,790					
	APPROACH %	0%	78%	22%	91%	9%	0%	92%	3%	5%	0%	0%	0%						
	PEAK HR FACTOR		0.918			0.965			0.924			0.000		0.975					
	APP/DEPART	162	/	370	1,362	/	139	266	/	1,281	0	/	0	0					



- CMA Worksheets

Level of Service Workheet
(Circular 212 Method)

I/S #:	North-South Street:	De Soto Avenue	Year of Count:	2018	Ambient Growth (%):	0.54	Conducted by:		Date:	10/14/2019
3	East-West Street:	Rinaldi Street	Projection Year:	2023	Peak Hour:	AM	Reviewed by:		Project:	LADWP De Soto Tanks

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
No. of Phases			4			4			4				4				4	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0				0	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 3	SB--	0	NB-- 3	SB--	0	NB-- 3	SB--	0		NB-- 3	SB--	0		NB-- 3	SB--	0	
	EB-- 0	WB--	3	EB-- 0	WB--	3	EB-- 0	WB--	3		EB-- 0	WB--	3		EB-- 0	WB--	3	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
Override Capacity			0			0			0				0				0	

MOVEMENT		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	9	1	**9**		9	**9**		9	1	**9**		9	1	**9**		9	1	**9**
	Left-Through		0							0				0				0	
	Through	1,596	2	798	16	1612	806	69	1709	2	855	16	1725	2	863		1725	2	863
	Through-Right		0							0				0				0	
	Right	190	1	42		190	42	20	215	1	36		215	1	36		215	1	36
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	159	1	159	6	165	165		163	1	163	6	169	1	169		169	1	169
	Left-Through		0							0				0				0	
	Through	2,232	2	**1116**	0	2232	**1116**	77	2370	2	**1185**	0	2370	2	**1185**		2370	2	**1185**
	Through-Right		0							0				0				0	
	Right	27	1	21		27	21		28	1	22		28	1	22		28	1	22
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	13	1	13		13	13		13	1	13		13	1	13		13	1	13
	Left-Through		0							0				0				0	
	Through	35	0	**45**		35	**45**	11	47	0	**57**		47	0	**57**		47	0	**57**
	Through-Right		1							1				1				1	
	Right	10	0	0		10	0		10	0	0		10	0	0		10	0	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	260	1	**148**	0	260	**148**	31	298	1	**179**	0	298	1	**179**		298	1	**179**
	Left-Through		1							1				1				1	
	Through	36	0	148		36	148	22	59	0	179		59	0	179		59	0	179
	Through-Right		0							0				0				0	
	Right	164	1	5		164	0		168	1	5		168	1	0		168	1	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES		*North-South:*		1125	*North-South:*		1125	*North-South:*			1194	*North-South:*			1194	*North-South:*			1194
		East-West:		193	*East-West:*		193	*East-West:*			236	*East-West:*			236	*East-West:*			236
		SUM:		1318	*SUM:*		1318	*SUM:*			1430	*SUM:*			1430	*SUM:*			1430
VOLUME/CAPACITY *(V/C)* RATIO:				0.959			0.959				1.040				1.040				1.040
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.859**			**0.859**				**0.940**				**0.940**				**0.940**
LEVEL OF SERVICE (LOS):				**D**			**D**				**E**				**E**				**E**

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in *v/c* due to project:	0.000	Δ*v/c* after mitigation:	0.000
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Workheet
(Circular 212 Method)

I/S #:	North-South Street:	De Soto Avenue	Year of Count:	2018	Ambient Growth (%):	0.54	Conducted by:	0	Date:	10/14/2019
3	East-West Street:	Rinaldi Street	Projection Year:	2023	Peak Hour:	PM	Reviewed by:		Project:	LADWP De Soto Tanks

No. of Phases			4			4			4			4			4			4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0			0			0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 3	SB--	0	NB-- 3	SB--	0	NB--	SB--	0	NB--	SB--	0	NB--	SB--	0	NB--	SB--	0
	EB-- 0	WB--	3	EB-- 0	WB--	3	EB--	WB--	3	EB--	WB--	3	EB--	WB--	3	EB--	WB--	3
ATSAC-1 or ATSAC+ATCS-2?			2			2			2			2			2			2
Override Capacity			0			0			0			0			0			0

MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	7	1	7		7	7		7	1	7		7	1	7		7	1	7
	Left-Through		0							0				0				0	
	Through	1930	2	**965**	0	1930	**965**	65	2048	2	**1024**	0	2048	2	**1024**		2048	2	**1024**
	Through-Right		0							0				0				0	
	Right	278	1	203		278	195	90	376	1	269		376	1	261		376	1	261
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	66	1	**66**	0	66	**66**		68	1	**68**	0	68	1	**68**		68	1	**68**
	Left-Through		0							0				0				0	
	Through	1553	2	777	0	1553	777	66	1661	2	831	0	1661	2	831		1661	2	831
	Through-Right		0							0				0				0	
	Right	11	1	0		11	0		11	1	0		11	1	0		11	1	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	25	1	**25**		25	**25**		26	1	26		26	1	26		26	1	26
	Left-Through		0							0				0				0	
	Through	17	0	23		17	23	25	42	0	**48**		42	0	**48**		42	0	**48**
	Through-Right		1							1				1				1	
	Right	6	0	0		6	0		6	0	0		6	0	0		6	0	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	145	1	75	16	161	83	41	190	1	**107**	16	206	1	**115**		206	1	**115**
	Left-Through		1							1				1				1	
	Through	5	0	75		5	83	18	23	0	107		23	0	115		23	0	115
	Through-Right		0							0				0				0	
	Right	155	1	**89**		155	**89**		159	1	91		159	1	91		159	1	91
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES		*North-South:*		1031	*North-South:*		1031	*North-South:*			1092	*North-South:*			1092	*North-South:*			1092
		East-West:		114	*East-West:*		114	*East-West:*			155	*East-West:*			163	*East-West:*			163
		SUM:		1145	*SUM:*		1145	*SUM:*			1247	*SUM:*			1255	*SUM:*			1255
VOLUME/CAPACITY *(V/C)* RATIO:				0.833			0.833				0.907				0.913				0.913
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.733**			**0.733**				**0.807**				**0.813**				**0.813**
LEVEL OF SERVICE (LOS):				**C**			**C**				**D**				**D**				**D**

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in *v/c* due to project:	0.006	Δ*v/c* after mitigation:	0.006
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	De Soto Avenue	Year of Count:	2018	Ambient Growth (%):	0.54	Conducted by:		Date:	10/14/2019
4	East-West Street:	Chatsworth Street	Projection Year:	2023	Peak Hour:	AM	Reviewed by:		Project:	LADWP De Soto Tanks

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
No. of Phases			4			4			4				4				4	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0				0	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB--		3	NB-- 0 SB--		3	NB-- 0 SB--		3		NB-- 0 SB--		3		NB-- 0 SB--		3	
	EB-- 0 WB--		3	EB-- 0 WB--		3	EB-- 0 WB--		3		EB-- 0 WB--		3		EB-- 0 WB--		3	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
Override Capacity			0			0			0				0				0	
NORTHBOUND																		
Left	18	1	**18**		18	**18**	1	19	1	**19**		19	1	**19**		19	1	**19**
Left-Through		0							0				0				0	
Through	1,360	2	460	8	1368	462	86	1483	2	501	8	1491	2	504		1491	2	504
Through-Right		1							1				1				1	
Right	19	0	19		19	19		20	0	20		20	0	20		20	0	20
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
SOUTHBOUND																		
Left	164	1	164	0	164	164	1	169	1	169	0	169	1	169		169	1	169
Left-Through		0							0				0				0	
Through	1,612	2	**806**	0	1612	**806**	106	1762	2	**881**	0	1762	2	**881**		1762	2	**881**
Through-Right		0							0				0				0	
Right	644	1	508	0	644	505	1	663	1	522	0	663	1	519		663	1	519
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
EASTBOUND																		
Left	248	2	**136**	4	252	**139**	2	257	2	**141**	4	261	2	**144**		261	2	**144**
Left-Through		0							0				0				0	
Through	230	2	115		230	115		236	2	118		236	2	118		236	2	118
Through-Right		0							0				0				0	
Right	13	1	4		13	4		13	1	4		13	1	4		13	1	4
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
WESTBOUND																		
Left	19	1	19		19	19		20	1	20		20	1	20		20	1	20
Left-Through		0							0				0				0	
Through	97	1	**97**		97	**97**		100	1	**100**		100	1	**100**		100	1	**100**
Through-Right		0							0				0				0	
Right	115	1	0	4	119	0	2	120	1	0	4	124	1	0		124	1	0
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
CRITICAL VOLUMES	*North-South:*		824	*North-South:*		824	*North-South:*			900	*North-South:*			900	*North-South:*			900
	East-West:		233	*East-West:*		236	*East-West:*			241	*East-West:*			244	*East-West:*			244
	SUM:		1057	*SUM:*		1060	*SUM:*			1141	*SUM:*			1144	*SUM:*			1144
VOLUME/CAPACITY *(V/C)* RATIO:			0.769			0.771				0.830				0.832				0.832
V/C LESS ATSAC/ATCS ADJUSTMENT:			**0.669**			**0.671**				**0.730**				**0.732**				**0.732**
LEVEL OF SERVICE (LOS):			**B**			**B**				**C**				**C**				**C**

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in *v/c* due to project:	0.002	Δ*v/c* after mitigation:	0.002
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	De Soto Avenue	Year of Count:	2018	Ambient Growth (%):	0.54	Conducted by:	0	Date:	10/14/2019
4	East-West Street:	Chatsworth Street	Projection Year:	2023	Peak Hour:	PM	Reviewed by:		Project:	LADWP De Soto Tanks

No. of Phases			4			4			4			4			4			4	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0			0			0			0	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB-- 3	NB--	0	SB-- 3	NB--	0	SB-- 3	NB--	0	SB-- 3	NB--	0	SB-- 3	NB--	0	SB-- 3	
	EB--	0	WB-- 3	EB--	0	WB-- 3	EB--	0	WB-- 3	EB--	0	WB-- 3	EB--	0	WB-- 3	EB--	0	WB-- 3	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2			2			2			2	
Override Capacity			0			0			0			0			0			0	

MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	26	1	**26**		26	**26**	1	28	1	**28**		28	1	**28**		28	1	**28**
	Left-Through		0							0				0				0	
	Through	1658	2	581	0	1658	581	124	1827	2	638	0	1827	2	638		1827	2	638
	Through-Right		1							1				1				1	
	Right	86	0	86		86	86		88	0	88		88	0	88		88	0	88
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	106	1	106	4	110	110	5	114	1	114	4	118	1	118		118	1	118
	Left-Through		0							0				0				0	
	Through	1321	2	**661**	8	1329	**665**	97	1454	2	**727**	8	1462	2	**731**		1462	2	**731**
	Through-Right		0							0				0				0	
	Right	255	1	75	4	259	79	5	267	1	73	4	271	1	77		271	1	77
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	328	2	**180**	0	328	**180**	15	352	2	**194**	0	352	2	**194**		352	2	**194**
	Left-Through		0							0				0				0	
	Through	240	2	120		240	120		247	2	124		247	2	124		247	2	124
	Through-Right		0							0				0				0	
	Right	42	1	29		42	29	1	44	1	30		44	1	30		44	1	30
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	16	1	16		16	16		16	1	16		16	1	16		16	1	16
	Left-Through		0							0				0				0	
	Through	113	1	**113**		113	**113**		116	1	**116**		116	1	**116**		116	1	**116**
	Through-Right		0							0				0				0	
	Right	143	1	37	0	143	33	15	162	1	48	0	162	1	44		162	1	44
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES		*North-South:*		687	*North-South:*		691	*North-South:*			755	*North-South:*			759	*North-South:*			759
		East-West:		293	*East-West:*		293	*East-West:*			310	*East-West:*			310	*East-West:*			310
		SUM:		980	*SUM:*		984	*SUM:*			1065	*SUM:*			1069	*SUM:*			1069
VOLUME/CAPACITY *(V/C)* RATIO:				0.713			0.716				0.775				0.777				0.777
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.613**			**0.616**				**0.675**				**0.677**				**0.677**
LEVEL OF SERVICE (LOS):				**B**			**B**				**B**				**B**				**B**

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in *v/c* due to project:	0.002	*Δv/c* after mitigation:	0.002
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Workheet
(Circular 212 Method)

I/S #:	North-South Street:	Mason Street	Year of Count:	2018	Ambient Growth (%):	0.54	Conducted by:		Date:	10/14/2019
5	East-West Street:	Rinaldi Street	Projection Year:	2023	Peak Hour:	AM	Reviewed by:		Project:	LADWP De Soto Tanks

No. of Phases			3			3			3			3			3				3
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0			0			0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	3	SB-- 0	NB--	3	SB-- 0	NB--	3	SB-- 0	NB--	3	SB-- 0	NB--	3	SB-- 0	NB--	3	SB--	0
	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?			2			2			2			2			2				2
Override Capacity			0			0			0			0			0				0

MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	74	1	**74**		74	**74**		76	1	**76**		76	1	**76**		76	1	**76**
	Left-Through		0							0				0				0	
	Through	166	2	83		166	83	9	180	2	90		180	2	90		180	2	90
	Through-Right		0							0				0				0	
	Right	628	1	0		628	0	17	662	1	6		662	1	6		662	1	6
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	165	1	165		165	165	4	174	1	174		174	1	174		174	1	174
	Left-Through		0							0				0				0	
	Through	390	2	**195**		390	**195**	33	434	2	**217**		434	2	**217**		434	2	**217**
	Through-Right		0							0				0				0	
	Right	121	1	83		121	83	46	170	1	121		170	1	121		170	1	121
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	77	1	77		77	77	19	98	1	98		98	1	98		98	1	98
	Left-Through		0							0				0				0	
	Through	151	2	76	0	151	76	12	167	2	84	0	167	2	84		167	2	84
	Through-Right		1							1				1				1	
	Right	155	0	**118**		155	**118**		159	0	**121**		159	0	**121**		159	0	**121**
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	1,145	2	**630**		1145	**630**	17	1193	2	**656**		1193	2	**656**		1193	2	**656**
	Left-Through		0							0				0				0	
	Through	321	1	196	63	384	228	7	337	1	206	63	400	1	237		400	1	237
	Through-Right		1							1				1				1	
	Right	71	0	71		71	71	1	74	0	74		74	0	74		74	0	74
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES		*North-South:*		269	*North-South:*		269	*North-South:*			293	*North-South:*			293	*North-South:*			293
		East-West:		748	*East-West:*		748	*East-West:*			777	*East-West:*			777	*East-West:*			777
		SUM:		1017	*SUM:*		1017	*SUM:*			1070	*SUM:*			1070	*SUM:*			1070
VOLUME/CAPACITY *(V/C)* RATIO:				0.714			0.714				0.751				0.751				0.751
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.614**			**0.614**				**0.651**				**0.651**				**0.651**
LEVEL OF SERVICE (LOS):				**B**			**B**				**B**				**B**				**B**

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in *v/c* due to project:	0.000	*Δv/c* after mitigation:	0.000
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Workheet
(Circular 212 Method)

I/S #:	North-South Street:	Mason Street	Year of Count:	2018	Ambient Growth (%):	0.54	Conducted by:	0	Date:	10/14/2019
5	East-West Street:	Rinaldi Street	Projection Year:	2023	Peak Hour:	PM	Reviewed by:		Project:	LADWP De Soto Tanks

No. of Phases			3			3			3			3			3			3	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0			0			0			0	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	3	SB-- 0	NB--	3	SB-- 0	NB--	3	SB-- 0	NB--	3	SB-- 0	NB--	3	SB-- 0	NB--	3	SB-- 0	
	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2			2			2			2	
Override Capacity			0			0			0			0			0			0	

MOVEMENT		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	124	1	124		124	124		127	1	127		127	1	127		127	1	127
	Left-Through		0							0				0				0	
	Through	307	2	154		307	154	32	347	2	174		347	2	174		347	2	174
	Through-Right		0							0				0				0	
	Right	1183	1	**905**		1183	**905**	56	1271	1	**970**		1271	1	**970**		1271	1	**970**
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	91	1	**91**		91	**91**	1	94	1	**94**		94	1	**94**		94	1	**94**
	Left-Through		0							0				0				0	
	Through	129	2	65		129	65	24	157	2	79		157	2	79		157	2	79
	Through-Right		0							0				0				0	
	Right	52	1	22		52	22	32	85	1	29		85	1	29		85	1	29
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	61	1	61		61	61	50	113	1	113		113	1	113		113	1	113
	Left-Through		0							0				0				0	
	Through	382	2	**139**	2	384	**140**	65	457	2	**164**	2	459	2	**165**		459	2	**165**
	Through-Right		1							1				1				1	
	Right	35	0	35		35	35		36	0	36		36	0	36		36	0	36
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	506	2	**278**		506	**278**	27	547	2	**301**		547	2	**301**		547	2	**301**
	Left-Through		0							0				0				0	
	Through	169	1	142	45	214	165	27	201	1	162	45	246	1	184		246	1	184
	Through-Right		1							1				1				1	
	Right	115	0	115		115	115	4	122	0	122		122	0	122		122	0	122
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES		North-South:		996	North-South:		996	North-South:			1064	North-South:			1064	North-South:			1064
		East-West:		417	East-West:		418	East-West:			465	East-West:			466	East-West:			466
		SUM:		1413	SUM:		1414	SUM:			1529	SUM:			1530	SUM:			1530
VOLUME/CAPACITY (*V/C*) RATIO:				0.992			0.992				1.073				1.074				1.074
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.892**			**0.892**				**0.973**				**0.974**				**0.974**
LEVEL OF SERVICE (LOS):				**D**			**D**				**E**				**E**				**E**

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in *v/c* due to project:	0.001	Δ*v/c* after mitigation:	0.001
Significant impacted?	NO	Fully mitigated?	N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Porter Ranch Drive	Year of Count:	2018	Ambient Growth (%):	0.54	Conducted by:		Date:	10/14/2019
6	East-West Street:	Rinaldi Street	Projection Year:	2023	Peak Hour:	AM	Reviewed by:		Project:	LADWP De Soto Tanks

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
No. of Phases			4			4			4				4				4	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0				0	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 3	SB--	0	NB-- 3	SB--	0	NB-- 3	SB--	0		NB-- 3	SB--	0		NB-- 3	SB--	0	
	EB-- 3	WB--	0	EB-- 3	WB--	0	EB-- 3	WB--	0		EB-- 3	WB--	0		DS 3	WB--	0	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
Override Capacity			0			0			0				0				0	

MOVEMENT		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	1,020	2	**561**	61	1081	**595**	6	1054	2	**580**	61	1115	2	**613**		1115	2	**613**
	Left-Through		0							0				0				0	
	Through	221	2	111		221	111	100	327	2	164		327	2	164		327	2	164
	Through-Right		0							0				0				0	
	Right	674	1	584		674	584	9	701	1	600		701	1	600		701	1	600
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	40	2	22		40	22	43	84	2	46		84	2	46		84	2	46
	Left-Through		0							0				0				0	
	Through	369	2	**185**		369	**185**	292	671	2	**336**		671	2	**336**		671	2	**336**
	Through-Right		0							0				0				0	
	Right	75	1	64		75	64	14	91	1	77		91	1	77		91	1	77
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	40	2	**22**		40	**22**	12	53	2	**29**		53	2	**29**		53	2	**29**
	Left-Through		0							0				0				0	
	Through	344	2	172	0	344	172	12	365	2	183	0	365	2	183		365	2	183
	Through-Right		0							0				0				0	
	Right	583	1	22		583	0	4	603	1	23		603	1	0		603	1	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	164	2	90		164	90	16	184	2	101		184	2	101		184	2	101
	Left-Through		0							0				0				0	
	Through	471	1	**252**	2	473	**253**	8	492	1	**270**	2	494	1	**271**		494	1	**271**
	Through-Right		1							1				1				1	
	Right	33	0	33		33	33	14	48	0	48		48	0	48		48	0	48
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES			*North-South:*	746		*North-South:*	780		*North-South:*		916		*North-South:*		949		*North-South:*		949
			East-West:	274		*East-West:*	275		*East-West:*		299		*East-West:*		300		*East-West:*		300
			SUM:	1020		*SUM:*	1055		*SUM:*		1215		*SUM:*		1249		*SUM:*		1249
VOLUME/CAPACITY *(V/C)* RATIO:				0.742			0.767				0.884				0.908				0.908
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.642**			**0.667**				**0.784**				**0.808**				**0.808**
LEVEL OF SERVICE (LOS):				**B**			**B**				**C**				**D**				**D**

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in *v/c* due to project:	0.024	∆*v/c* after mitigation:	0.024
Significant impacted?	YES	Fully mitigated?	NO

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Porter Ranch Drive	Year of Count:	2018	Ambient Growth (%):	0.54	Conducted by:	0	Date:	10/14/2019
6	East-West Street:	Rinaldi Street	Projection Year:	2023	Peak Hour:	PM	Reviewed by:		Project:	LADWP De Soto Tanks

No. of Phases			4			4			4			4			4			4	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0			0			0			0	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 3	SB--	0	NB-- 3	SB--	0	NB-- 3	SB--	0	NB-- 3	SB--	0	NB-- 3	SB--	0	NB-- 3	SB--	0	
	EB-- 3	WB--	0	EB-- 3	WB--	0	EB-- 3	WB--	0	EB-- 3	WB--	0	EB-- 3	WB--	0	EB-- 3	WB--	0	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2			2			2			2	
Override Capacity			0			0			0			0			0			0	

	MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	405	2	**223**		405	**223**	61	477	2	**262**		477	2	**262**		477	2	**262**
	Left-Through		0							0				0				0	
	Through	288	2	144		288	144	356	652	2	326		652	2	326		652	2	326
	Through-Right		0							0				0				0	
	Right	396	1	198		396	198	18	425	1	214		425	1	214		425	1	214
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	57	2	31		57	31	26	85	2	47		85	2	47		85	2	47
	Left-Through		0							0				0				0	
	Through	199	2	**100**		199	**100**	202	406	2	**203**		406	2	**203**		406	2	**203**
	Through-Right		0							0				0				0	
	Right	39	1	12		39	12	11	51	1	20		51	1	20		51	1	20
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	100	2	55		100	55	10	113	2	62		113	2	62		113	2	62
	Left-Through		0							0				0				0	
	Through	778	2	389	2	780	390	20	819	2	410	2	821	2	411		821	2	411
	Through-Right		0							0				0				0	
	Right	744	1	**521**		744	**521**	21	785	1	**523**		785	1	**523**		785	1	**523**
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	360	2	**198**		360	**198**	14	384	2	**211**		384	2	**211**		384	2	**211**
	Left-Through		0							0				0				0	
	Through	377	1	222	0	377	222	56	443	1	279	0	443	1	279		443	1	279
	Through-Right		1							1				1				1	
	Right	66	0	66		66	66	47	115	0	115		115	0	115		115	0	115
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES		*North-South:*		323	*North-South:*		323	*North-South:*			465	*North-South:*			465	*North-South:*			465
		East-West:		719	*East-West:*		719	*East-West:*			734	*East-West:*			734	*East-West:*			734
		SUM:		1042	*SUM:*		1042	*SUM:*			1199	*SUM:*			1199	*SUM:*			1199
VOLUME/CAPACITY *(V/C)* RATIO:				0.758			0.758				0.872				0.872				0.872
V/C LESS ATSAC/ATCS ADJUSTMENT:				**0.658**			**0.658**				**0.772**				**0.772**				**0.772**
LEVEL OF SERVICE (LOS):				**B**			**B**				**C**				**C**				**C**

REMARKS:

Version: 1i Beta; 8/4/2011

PROJECT IMPACT

Change in *v/c* due to project:	0.000	Δ*v/c* after mitigation:	0.000
Significant impacted?	NO	Fully mitigated?	N/A

- Synchro Worksheets

- Existing Conditions

Intersection	
Intersection Delay, s/veh	252.3
Intersection LOS	F

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	1559	3	13	593	3	19
Future Vol, veh/h	1559	3	13	593	3	19
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	5	67	85	5	67	63
Mvmt Flow	1676	3	14	638	3	20
Number of Lanes	2	1	1	2	0	2

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	3
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	3	0	3
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	3	0
HCM Control Delay	347.4	15.8	13.3
HCM LOS	F	C	B

Lane	NBLn1	NBLn2	NBLn3	WBLn1	WBLn2	WBLn3	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	100%	100%	0%	32%	0%
Vol Thru, %	100%	0%	0%	0%	0%	0%	68%	100%
Vol Right, %	0%	100%	100%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	13	297	297	780	780	3	9	13
LT Vol	0	0	0	780	780	0	3	0
Through Vol	13	0	0	0	0	0	6	13
RT Vol	0	297	297	0	0	3	0	0
Lane Flow Rate	14	319	319	838	838	3	10	14
Geometry Grp	8	8	8	7	7	7	8	8
Degree of Util (X)	0.034	0.597	0.439	1.591	1.836	0.003	0.028	0.037
Departure Headway (Hd)	9.153	7.081	5.286	6.833	7.887	3.847	10.417	10.185
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	393	513	685	536	469	935	346	354
Service Time	6.853	4.781	2.986	4.535	5.59	1.549	8.117	7.885
HCM Lane V/C Ratio	0.036	0.622	0.466	1.563	1.787	0.003	0.029	0.04
HCM Control Delay	12.2	19.7	12.1	292.8	403.4	6.6	13.4	13.3
HCM Lane LOS	B	C	B	F	F	A	B	B
HCM 95th-tile Q	0.1	3.9	2.2	45.8	53.5	0	0.1	0.1

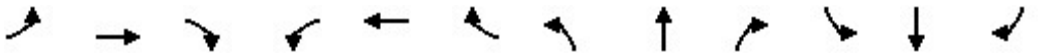
Intersection	
Int Delay, s/veh	0.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	2	0	820	0	0	0	0	607	1107	8	1567	0
Future Vol, veh/h	2	0	820	0	0	0	0	607	1107	8	1567	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	Free	-	-	None	-	-	Free	-	-	None
Storage Length	-	-	0	-	-	-	-	-	250	0	-	-
Veh in Median Storage, #	-	0	-	-	16979	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	100	0	2	0	0	0	0	7	7	25	6	0
Mvmt Flow	2	0	872	0	0	0	0	646	1178	9	1667	0

Major/Minor	Minor2			Major1			Major2		
Conflicting Flow All	2008	2331	-	-	0	-	646	0	0
Stage 1	1685	1685	-	-	-	-	-	-	-
Stage 2	323	646	-	-	-	-	-	-	-
Critical Hdwy	8.8	6.5	-	-	-	-	4.6	-	-
Critical Hdwy Stg 1	7.8	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	7.8	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	4.5	4	-	-	-	-	2.45	-	-
Pot Cap-1 Maneuver	16	37	0	0	-	0	795	-	0
Stage 1	50	152	0	0	-	0	-	-	0
Stage 2	483	470	0	0	-	0	-	-	0
Platoon blocked, %					-			-	
Mov Cap-1 Maneuver	16	0	-	-	-	-	795	-	-
Mov Cap-2 Maneuver	16	0	-	-	-	-	-	-	-
Stage 1	50	0	-	-	-	-	-	-	-
Stage 2	478	0	-	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	261.9	0	0
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	EBLn1	EBLn2	SBL	SBT
Capacity (veh/h)	-	16	-	795	-
HCM Lane V/C Ratio	-	0.133	-	0.011	-
HCM Control Delay (s)	-	261.9	0	9.6	-
HCM Lane LOS	-	F	A	A	-
HCM 95th %tile Q(veh)	-	0.4	-	0	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	12	1	1531	4	294	0	0	880	223
Future Volume (veh/h)	0	0	0	12	1	1531	4	294	0	0	880	223
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1841	1900	1841	1900	1826	0	0	1826	1767
Adj Flow Rate, veh/h				0	0	1627	4	309	0	0	926	235
Peak Hour Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %				4	0	4	0	5	0	0	5	9
Cap, veh/h				0	1040	1707	179	1224	0	0	1288	528
Arrive On Green				0.00	0.00	0.55	0.71	0.71	0.00	0.00	0.71	0.71
Sat Flow, veh/h				0	1900	3120	491	3561	0	0	3652	1497
Grp Volume(v), veh/h				0	0	1627	4	309	0	0	926	235
Grp Sat Flow(s),veh/h/ln				0	1900	1560	491	1735	0	0	1826	1497
Q Serve(g_s), s				0.0	0.0	44.4	0.4	2.9	0.0	0.0	13.6	6.1
Cycle Q Clear(g_c), s				0.0	0.0	44.4	14.1	2.9	0.0	0.0	13.6	6.1
Prop In Lane				0.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				0	1040	1707	179	1224	0	0	1288	528
V/C Ratio(X)				0.00	0.00	0.95	0.02	0.25	0.00	0.00	0.72	0.45
Avail Cap(c_a), veh/h				0	1066	1751	179	1224	0	0	1288	528
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
Upstream Filter(I)				0.00	0.00	1.00	0.78	0.78	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	0.0	19.3	14.8	9.0	0.0	0.0	10.6	9.5
Incr Delay (d2), s/veh				0.0	0.0	12.1	0.2	0.4	0.0	0.0	3.5	2.7
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	0.0	17.2	0.0	1.0	0.0	0.0	3.8	1.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				0.0	0.0	31.3	15.0	9.4	0.0	0.0	14.1	12.2
LnGrp LOS				A	A	C	B	A	A	A	B	B
Approach Vol, veh/h					1627			313			1161	
Approach Delay, s/veh					31.3			9.5			13.7	
Approach LOS					C			A			B	

Timer - Assigned Phs	2		6		8			
Phs Duration (G+Y+Rc), s	36.2		36.2		53.8			
Change Period (Y+Rc), s	4.5		4.5		4.5			
Max Green Setting (Gmax), s	30.5		30.5		50.5			
Max Q Clear Time (g_c+I1), s	16.1		15.6		46.4			
Green Ext Time (p_c), s	1.7		6.5		2.9			

Intersection Summary		
HCM 6th Ctrl Delay	22.5	
HCM 6th LOS	C	

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	297	7	11	0	0	0	0	13	14	880	18	0
Future Volume (veh/h)	297	7	11	0	0	0	0	13	14	880	18	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1781	1693	1781				0	1337	1337	1826	1737	0
Adj Flow Rate, veh/h	347	0	0				0	14	16	992	0	0
Peak Hour Factor	0.90	0.90	0.90				0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	8	14	8				0	38	38	5	11	0
Cap, veh/h	440	219	0				0	358	319	1526	762	0
Arrive On Green	0.13	0.00	0.00				0.00	0.28	0.28	0.44	0.00	0.00
Sat Flow, veh/h	3393	1693	0				0	1337	1133	3478	1737	0
Grp Volume(v), veh/h	347	0	0				0	14	16	992	0	0
Grp Sat Flow(s),veh/h/ln	1697	1693	0				0	1270	1133	1739	1737	0
Q Serve(g_s), s	8.9	0.0	0.0				0.0	0.7	0.9	20.2	0.0	0.0
Cycle Q Clear(g_c), s	8.9	0.0	0.0				0.0	0.7	0.9	20.2	0.0	0.0
Prop In Lane	1.00		0.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	440	219	0				0	358	319	1526	762	0
V/C Ratio(X)	0.79	0.00	0.00				0.00	0.04	0.05	0.65	0.00	0.00
Avail Cap(c_a), veh/h	679	339	0				0	358	319	1526	762	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00				0.00	1.00	1.00	0.59	0.00	0.00
Uniform Delay (d), s/veh	38.0	0.0	0.0				0.0	23.5	23.6	19.8	0.0	0.0
Incr Delay (d2), s/veh	3.5	0.0	0.0				0.0	0.2	0.3	1.3	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	0.0	0.0				0.0	0.2	0.3	8.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	41.4	0.0	0.0				0.0	23.7	23.9	21.1	0.0	0.0
LnGrp LOS	D	A	A				A	C	C	C	A	A
Approach Vol, veh/h		347						30			992	
Approach Delay, s/veh		41.4						23.8			21.1	
Approach LOS		D						C			C	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	29.8	16.2	44.0
Change Period (Y+Rc), s	4.5	4.5	4.5
Max Green Setting (Gmax), s	19.0	18.0	39.5
Max Q Clear Time (g_c+I1), s	2.9	10.9	22.2
Green Ext Time (p_c), s	0.1	0.7	3.9

Intersection Summary	
HCM 6th Ctrl Delay	26.3
HCM 6th LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

Intersection	
Intersection Delay, s/veh	56.8
Intersection LOS	F

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	991	11	5	838	2	18
Future Vol, veh/h	991	11	5	838	2	18
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	6	27	60	3	50	72
Mvmt Flow	1032	11	5	873	2	19
Number of Lanes	2	1	1	2	0	2

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	3
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	3	0	3
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	3	0
HCM Control Delay	85.7	23.4	13.4
HCM LOS	F	C	B

Lane	NBLn1	NBLn2	NBLn3	WBLn1	WBLn2	WBLn3	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	100%	100%	0%	25%	0%
Vol Thru, %	100%	0%	0%	0%	0%	0%	75%	100%
Vol Right, %	0%	100%	100%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	5	419	419	496	496	11	8	12
LT Vol	0	0	0	496	496	0	2	0
Through Vol	5	0	0	0	0	0	6	12
RT Vol	0	419	419	0	0	11	0	0
Lane Flow Rate	5	436	436	516	516	11	8	12
Geometry Grp	8	8	8	7	7	7	8	8
Degree of Util (X)	0.012	0.807	0.592	1.04	1.091	0.014	0.023	0.035
Departure Headway (Hd)	8.523	6.836	5.067	7.254	7.611	4.251	10.278	10.536
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	422	532	716	506	480	847	350	342
Service Time	6.223	4.536	2.767	4.954	5.311	1.951	7.978	8.236
HCM Lane V/C Ratio	0.012	0.82	0.609	1.02	1.075	0.013	0.023	0.035
HCM Control Delay	11.3	32.2	14.8	77.9	95.3	7	13.2	13.6
HCM Lane LOS	B	D	B	F	F	A	B	B
HCM 95th-tile Q	0	7.8	3.9	15.2	16.9	0	0.1	0.1

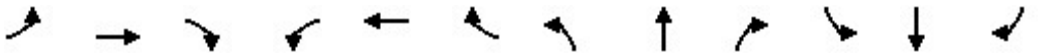
Intersection	
Int Delay, s/veh	0.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	4	0	600	0	0	0	0	846	1222	19	991	0
Future Vol, veh/h	4	0	600	0	0	0	0	846	1222	19	991	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	Free	-	-	None	-	-	Free	-	-	None
Storage Length	-	-	0	-	-	-	-	-	250	0	-	-
Veh in Median Storage, #	-	0	-	-	16979	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	4	0	0	0	0	3	5	74	5	0
Mvmt Flow	4	0	632	0	0	0	0	891	1286	20	1043	0

Major/Minor	Minor2			Major1			Major2		
Conflicting Flow All	1529	1974	-	-	0	-	891	0	0
Stage 1	1083	1083	-	-	-	-	-	-	-
Stage 2	446	891	-	-	-	-	-	-	-
Critical Hdwy	6.8	6.5	-	-	-	-	5.58	-	-
Critical Hdwy Stg 1	5.8	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.8	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	-	-	-	-	2.94	-	-
Pot Cap-1 Maneuver	110	63	0	0	-	0	433	-	0
Stage 1	291	296	0	0	-	0	-	-	0
Stage 2	618	363	0	0	-	0	-	-	0
Platoon blocked, %					-			-	
Mov Cap-1 Maneuver	105	0	-	-	-	-	433	-	-
Mov Cap-2 Maneuver	105	0	-	-	-	-	-	-	-
Stage 1	291	0	-	-	-	-	-	-	-
Stage 2	590	0	-	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	40.7	0	0.3
HCM LOS	E		

Minor Lane/Major Mvmt	NBT	EBLn1	EBLn2	SBL	SBT
Capacity (veh/h)	-	105	-	433	-
HCM Lane V/C Ratio	-	0.04	-	0.046	-
HCM Control Delay (s)	-	40.7	0	13.7	-
HCM Lane LOS	-	E	A	B	-
HCM 95th %tile Q(veh)	-	0.1	-	0.1	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	102	24	1062	30	240	0	0	1093	307
Future Volume (veh/h)	0	0	0	102	24	1062	30	240	0	0	1093	307
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1811	1781	1811	1856	1811	0	0	1826	1826
Adj Flow Rate, veh/h				0	0	1224	31	247	0	0	1127	316
Peak Hour Factor				0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %				6	8	6	3	6	0	0	5	5
Cap, veh/h				0	762	1314	237	1625	0	0	1724	731
Arrive On Green				0.00	0.00	0.43	0.94	0.94	0.00	0.00	0.94	0.94
Sat Flow, veh/h				0	1781	3070	367	3532	0	0	3652	1547
Grp Volume(v), veh/h				0	0	1224	31	247	0	0	1127	316
Grp Sat Flow(s),veh/h/ln				0	1781	1535	367	1721	0	0	1826	1547
Q Serve(g_s), s				0.0	0.0	34.1	1.3	0.4	0.0	0.0	4.0	1.7
Cycle Q Clear(g_c), s				0.0	0.0	34.1	5.4	0.4	0.0	0.0	4.0	1.7
Prop In Lane				0.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				0	762	1314	237	1625	0	0	1724	731
V/C Ratio(X)				0.00	0.00	0.93	0.13	0.15	0.00	0.00	0.65	0.43
Avail Cap(c_a), veh/h				0	802	1381	237	1625	0	0	1724	731
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
Upstream Filter(I)				0.00	0.00	1.00	0.93	0.93	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	0.0	24.5	1.8	1.3	0.0	0.0	1.4	1.4
Incr Delay (d2), s/veh				0.0	0.0	11.3	1.1	0.2	0.0	0.0	1.9	1.9
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	0.0	13.7	0.1	0.2	0.0	0.0	1.1	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				0.0	0.0	35.8	2.9	1.5	0.0	0.0	3.4	3.2
LnGrp LOS				A	A	D	A	A	A	A	A	A
Approach Vol, veh/h					1224			278			1443	
Approach Delay, s/veh					35.8			1.7			3.4	
Approach LOS					D			A			A	

Timer - Assigned Phs	2		6		8			
Phs Duration (G+Y+Rc), s	47.0		47.0		43.0			
Change Period (Y+Rc), s	4.5		4.5		4.5			
Max Green Setting (Gmax), s	40.5		40.5		40.5			
Max Q Clear Time (g_c+I1), s	7.4		6.0		36.1			
Green Ext Time (p_c), s	2.4		12.3		2.4			

Intersection Summary	
HCM 6th Ctrl Delay	16.7
HCM 6th LOS	B

Notes
User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	238	8	14	0	0	0	0	123	32	1210	120	0
Future Volume (veh/h)	238	8	14	0	0	0	0	123	32	1210	120	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1737	1900	1737				0	1811	1811	1826	1796	0
Adj Flow Rate, veh/h	262	0	0				0	126	33	1322	0	0
Peak Hour Factor	0.98	0.98	0.98				0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	11	0	11				0	6	6	5	7	0
Cap, veh/h	350	201	0				0	800	203	1565	808	0
Arrive On Green	0.11	0.00	0.00				0.00	0.29	0.29	0.15	0.00	0.00
Sat Flow, veh/h	3309	1900	0				0	2808	690	3478	1796	0
Grp Volume(v), veh/h	262	0	0				0	78	81	1322	0	0
Grp Sat Flow(s),veh/h/ln	1654	1900	0				0	1721	1687	1739	1796	0
Q Serve(g_s), s	6.9	0.0	0.0				0.0	3.0	3.2	33.3	0.0	0.0
Cycle Q Clear(g_c), s	6.9	0.0	0.0				0.0	3.0	3.2	33.3	0.0	0.0
Prop In Lane	1.00		0.00				0.00		0.41	1.00		0.00
Lane Grp Cap(c), veh/h	350	201	0				0	506	496	1565	808	0
V/C Ratio(X)	0.75	0.00	0.00				0.00	0.15	0.16	0.84	0.00	0.00
Avail Cap(c_a), veh/h	662	380	0				0	506	496	1565	808	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	0.33	0.33	1.00
Upstream Filter(I)	1.00	0.00	0.00				0.00	1.00	1.00	0.70	0.00	0.00
Uniform Delay (d), s/veh	39.1	0.0	0.0				0.0	23.5	23.5	35.3	0.0	0.0
Incr Delay (d2), s/veh	3.2	0.0	0.0				0.0	0.6	0.7	4.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	0.0	0.0				0.0	1.3	1.3	16.3	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	42.3	0.0	0.0				0.0	24.1	24.2	39.4	0.0	0.0
LnGrp LOS	D	A	A				A	C	C	D	A	A
Approach Vol, veh/h		262						159			1322	
Approach Delay, s/veh		42.3						24.2			39.4	
Approach LOS		D						C			D	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	31.0	14.0	45.0
Change Period (Y+Rc), s	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.0	18.0	40.5
Max Q Clear Time (g_c+I1), s	5.2	8.9	35.3
Green Ext Time (p_c), s	0.6	0.6	2.7

Intersection Summary	
HCM 6th Ctrl Delay	38.4
HCM 6th LOS	D

Notes

User approved volume balancing among the lanes for turning movement.

- Existing plus Project Conditions

Intersection	
Intersection Delay, s/veh	252.3
Intersection LOS	F

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	1559	3	13	593	3	19
Future Vol, veh/h	1559	3	13	593	3	19
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	5	67	85	5	67	63
Mvmt Flow	1676	3	14	638	3	20
Number of Lanes	2	1	1	2	0	2

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	3
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	3	0	3
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	3	0
HCM Control Delay	347.4	15.8	13.3
HCM LOS	F	C	B

Lane	NBLn1	NBLn2	NBLn3	WBLn1	WBLn2	WBLn3	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	100%	100%	0%	32%	0%
Vol Thru, %	100%	0%	0%	0%	0%	0%	68%	100%
Vol Right, %	0%	100%	100%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	13	297	297	780	780	3	9	13
LT Vol	0	0	0	780	780	0	3	0
Through Vol	13	0	0	0	0	0	6	13
RT Vol	0	297	297	0	0	3	0	0
Lane Flow Rate	14	319	319	838	838	3	10	14
Geometry Grp	8	8	8	7	7	7	8	8
Degree of Util (X)	0.034	0.597	0.439	1.591	1.836	0.003	0.028	0.037
Departure Headway (Hd)	9.153	7.081	5.286	6.833	7.887	3.847	10.417	10.185
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	393	513	685	536	469	935	346	354
Service Time	6.853	4.781	2.986	4.535	5.59	1.549	8.117	7.885
HCM Lane V/C Ratio	0.036	0.622	0.466	1.563	1.787	0.003	0.029	0.04
HCM Control Delay	12.2	19.7	12.1	292.8	403.4	6.6	13.4	13.3
HCM Lane LOS	B	C	B	F	F	A	B	B
HCM 95th-tile Q	0.1	3.9	2.2	45.8	53.5	0	0.1	0.1

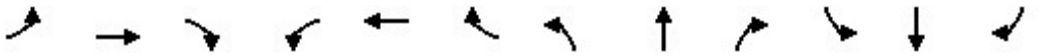
Intersection	
Int Delay, s/veh	0.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	2	0	826	0	0	0	0	607	1122	8	1567	0
Future Vol, veh/h	2	0	826	0	0	0	0	607	1122	8	1567	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	Free	-	-	None	-	-	Free	-	-	None
Storage Length	-	-	0	-	-	-	-	-	250	0	-	-
Veh in Median Storage, #	-	0	-	-	16979	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	100	0	2	0	0	0	0	7	7	25	6	0
Mvmt Flow	2	0	879	0	0	0	0	646	1194	9	1667	0

Major/Minor	Minor2			Major1			Major2		
Conflicting Flow All	2008	2331	-	-	0	-	646	0	0
Stage 1	1685	1685	-	-	-	-	-	-	-
Stage 2	323	646	-	-	-	-	-	-	-
Critical Hdwy	8.8	6.5	-	-	-	-	4.6	-	-
Critical Hdwy Stg 1	7.8	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	7.8	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	4.5	4	-	-	-	-	2.45	-	-
Pot Cap-1 Maneuver	16	37	0	0	-	0	795	-	0
Stage 1	50	152	0	0	-	0	-	-	0
Stage 2	483	470	0	0	-	0	-	-	0
Platoon blocked, %					-			-	
Mov Cap-1 Maneuver	16	0	-	-	-	-	795	-	-
Mov Cap-2 Maneuver	16	0	-	-	-	-	-	-	-
Stage 1	50	0	-	-	-	-	-	-	-
Stage 2	478	0	-	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	261.9	0	0
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	EBLn1	EBLn2	SBL	SBT
Capacity (veh/h)	-	16	-	795	-
HCM Lane V/C Ratio	-	0.133	-	0.011	-
HCM Control Delay (s)	-	261.9	0	9.6	-
HCM Lane LOS	-	F	A	A	-
HCM 95th %tile Q(veh)	-	0.4	-	0	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	12	1	1563	4	294	0	0	880	223
Future Volume (veh/h)	0	0	0	12	1	1563	4	294	0	0	880	223
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1841	1900	1841	1900	1826	0	0	1826	1767
Adj Flow Rate, veh/h				0	0	1660	4	309	0	0	926	235
Peak Hour Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %				4	0	4	0	5	0	0	5	9
Cap, veh/h				0	1051	1725	173	1204	0	0	1267	519
Arrive On Green				0.00	0.00	0.55	0.35	0.35	0.00	0.00	0.69	0.69
Sat Flow, veh/h				0	1900	3120	491	3561	0	0	3652	1497
Grp Volume(v), veh/h				0	0	1660	4	309	0	0	926	235
Grp Sat Flow(s),veh/h/ln				0	1900	1560	491	1735	0	0	1826	1497
Q Serve(g_s), s				0.0	0.0	45.7	0.6	5.7	0.0	0.0	14.2	6.3
Cycle Q Clear(g_c), s				0.0	0.0	45.7	14.8	5.7	0.0	0.0	14.2	6.3
Prop In Lane				0.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				0	1051	1725	173	1204	0	0	1267	519
V/C Ratio(X)				0.00	0.00	0.96	0.02	0.26	0.00	0.00	0.73	0.45
Avail Cap(c_a), veh/h				0	1066	1751	173	1204	0	0	1267	519
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00
Upstream Filter(I)				0.00	0.00	1.00	0.78	0.78	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	0.0	19.2	29.8	21.1	0.0	0.0	11.2	10.0
Incr Delay (d2), s/veh				0.0	0.0	13.5	0.2	0.4	0.0	0.0	3.7	2.8
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	0.0	18.0	0.1	2.3	0.0	0.0	4.0	2.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				0.0	0.0	32.8	30.0	21.5	0.0	0.0	14.9	12.8
LnGrp LOS				A	A	C	C	C	A	A	B	B
Approach Vol, veh/h					1660			313			1161	
Approach Delay, s/veh					32.8			21.6			14.5	
Approach LOS					C			C			B	

Timer - Assigned Phs		2				6		8				
Phs Duration (G+Y+Rc), s		35.7				35.7		54.3				
Change Period (Y+Rc), s		4.5				4.5		4.5				
Max Green Setting (Gmax), s		30.5				30.5		50.5				
Max Q Clear Time (g_c+I1), s		16.8				16.2		47.7				
Green Ext Time (p_c), s		1.6				6.4		2.0				

Intersection Summary		
HCM 6th Ctrl Delay	24.9	
HCM 6th LOS	C	

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	297	7	11	0	0	0	0	13	14	880	18	0
Future Volume (veh/h)	297	7	11	0	0	0	0	13	14	880	18	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1781	1693	1781				0	1337	1337	1826	1737	0
Adj Flow Rate, veh/h	347	0	0				0	14	16	992	0	0
Peak Hour Factor	0.90	0.90	0.90				0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	8	14	8				0	38	38	5	11	0
Cap, veh/h	440	219	0				0	358	319	1526	762	0
Arrive On Green	0.13	0.00	0.00				0.00	0.28	0.28	0.44	0.00	0.00
Sat Flow, veh/h	3393	1693	0				0	1337	1133	3478	1737	0
Grp Volume(v), veh/h	347	0	0				0	14	16	992	0	0
Grp Sat Flow(s),veh/h/ln	1697	1693	0				0	1270	1133	1739	1737	0
Q Serve(g_s), s	8.9	0.0	0.0				0.0	0.7	0.9	20.2	0.0	0.0
Cycle Q Clear(g_c), s	8.9	0.0	0.0				0.0	0.7	0.9	20.2	0.0	0.0
Prop In Lane	1.00		0.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	440	219	0				0	358	319	1526	762	0
V/C Ratio(X)	0.79	0.00	0.00				0.00	0.04	0.05	0.65	0.00	0.00
Avail Cap(c_a), veh/h	679	339	0				0	358	319	1526	762	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00				0.00	1.00	1.00	0.57	0.00	0.00
Uniform Delay (d), s/veh	38.0	0.0	0.0				0.0	23.5	23.6	19.8	0.0	0.0
Incr Delay (d2), s/veh	3.5	0.0	0.0				0.0	0.2	0.3	1.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	0.0	0.0				0.0	0.2	0.3	8.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	41.4	0.0	0.0				0.0	23.7	23.9	21.1	0.0	0.0
LnGrp LOS	D	A	A				A	C	C	C	A	A
Approach Vol, veh/h		347						30			992	
Approach Delay, s/veh		41.4						23.8			21.1	
Approach LOS		D						C			C	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	29.8	16.2	44.0
Change Period (Y+Rc), s	4.5	4.5	4.5
Max Green Setting (Gmax), s	19.0	18.0	39.5
Max Q Clear Time (g_c+I1), s	2.9	10.9	22.2
Green Ext Time (p_c), s	0.1	0.7	3.9

Intersection Summary	
HCM 6th Ctrl Delay	26.3
HCM 6th LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

Intersection	
Intersection Delay, s/veh	57.2
Intersection LOS	F

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	991	11	5	844	2	18
Future Vol, veh/h	991	11	5	844	2	18
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	6	27	60	3	50	72
Mvmt Flow	1032	11	5	879	2	19
Number of Lanes	2	1	1	2	0	2

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	3
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	3	0	3
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	3	0
HCM Control Delay	86.4	23.8	13.4
HCM LOS	F	C	B

Lane	NBLn1	NBLn2	NBLn3	WBLn1	WBLn2	WBLn3	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	100%	100%	0%	25%	0%
Vol Thru, %	100%	0%	0%	0%	0%	0%	75%	100%
Vol Right, %	0%	100%	100%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	5	422	422	496	496	11	8	12
LT Vol	0	0	0	496	496	0	2	0
Through Vol	5	0	0	0	0	0	6	12
RT Vol	0	422	422	0	0	11	0	0
Lane Flow Rate	5	440	440	516	516	11	8	12
Geometry Grp	8	8	8	7	7	7	8	8
Degree of Util (X)	0.012	0.813	0.597	1.042	1.093	0.014	0.023	0.035
Departure Headway (Hd)	8.526	6.839	5.069	7.266	7.623	4.263	10.294	10.551
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	422	532	717	501	480	845	350	341
Service Time	6.226	4.539	2.769	4.966	5.323	1.963	7.994	8.251
HCM Lane V/C Ratio	0.012	0.827	0.614	1.03	1.075	0.013	0.023	0.035
HCM Control Delay	11.3	32.8	15	78.5	96	7	13.2	13.6
HCM Lane LOS	B	D	B	F	F	A	B	B
HCM 95th-tile Q	0	7.9	4	15.3	16.9	0	0.1	0.1

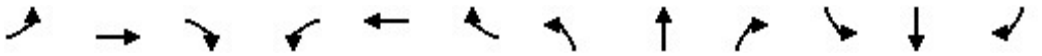
Intersection	
Int Delay, s/veh	0.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	4	0	600	0	0	0	0	852	1253	19	991	0
Future Vol, veh/h	4	0	600	0	0	0	0	852	1253	19	991	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	Free	-	-	None	-	-	Free	-	-	None
Storage Length	-	-	0	-	-	-	-	-	250	0	-	-
Veh in Median Storage, #	-	0	-	-	16979	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	4	0	0	0	0	3	5	74	5	0
Mvmt Flow	4	0	632	0	0	0	0	897	1319	20	1043	0

Major/Minor	Minor2			Major1			Major2		
Conflicting Flow All	1532	1980	-	-	0	-	897	0	0
Stage 1	1083	1083	-	-	-	-	-	-	-
Stage 2	449	897	-	-	-	-	-	-	-
Critical Hdwy	6.8	6.5	-	-	-	-	5.58	-	-
Critical Hdwy Stg 1	5.8	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.8	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	-	-	-	-	2.94	-	-
Pot Cap-1 Maneuver	110	62	0	0	-	0	430	-	0
Stage 1	291	296	0	0	-	0	-	-	0
Stage 2	616	361	0	0	-	0	-	-	0
Platoon blocked, %					-			-	
Mov Cap-1 Maneuver	105	0	-	-	-	-	430	-	-
Mov Cap-2 Maneuver	105	0	-	-	-	-	-	-	-
Stage 1	291	0	-	-	-	-	-	-	-
Stage 2	587	0	-	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	40.7	0	0.3
HCM LOS	E		

Minor Lane/Major Mvmt	NBT	EBLn1	EBLn2	SBL	SBT
Capacity (veh/h)	-	105	-	430	-
HCM Lane V/C Ratio	-	0.04	-	0.047	-
HCM Control Delay (s)	-	40.7	0	13.8	-
HCM Lane LOS	-	E	A	B	-
HCM 95th %tile Q(veh)	-	0.1	-	0.1	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	102	24	1078	30	240	0	0	1093	307
Future Volume (veh/h)	0	0	0	102	24	1078	30	240	0	0	1093	307
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1811	1781	1811	1856	1811	0	0	1826	1826
Adj Flow Rate, veh/h				0	0	1240	31	247	0	0	1127	316
Peak Hour Factor				0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %				6	8	6	3	6	0	0	5	5
Cap, veh/h				0	769	1324	233	1612	0	0	1711	725
Arrive On Green				0.00	0.00	0.43	0.94	0.94	0.00	0.00	0.94	0.94
Sat Flow, veh/h				0	1781	3070	367	3532	0	0	3652	1547
Grp Volume(v), veh/h				0	0	1240	31	247	0	0	1127	316
Grp Sat Flow(s),veh/h/ln				0	1781	1535	367	1721	0	0	1826	1547
Q Serve(g_s), s				0.0	0.0	34.7	1.5	0.5	0.0	0.0	4.6	2.0
Cycle Q Clear(g_c), s				0.0	0.0	34.7	6.1	0.5	0.0	0.0	4.6	2.0
Prop In Lane				0.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				0	769	1324	233	1612	0	0	1711	725
V/C Ratio(X)				0.00	0.00	0.94	0.13	0.15	0.00	0.00	0.66	0.44
Avail Cap(c_a), veh/h				0	802	1381	233	1612	0	0	1711	725
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
Upstream Filter(I)				0.00	0.00	1.00	0.93	0.93	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	0.0	24.4	2.1	1.5	0.0	0.0	1.6	1.6
Incr Delay (d2), s/veh				0.0	0.0	11.9	1.1	0.2	0.0	0.0	2.0	1.9
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	0.0	14.0	0.1	0.2	0.0	0.0	1.2	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				0.0	0.0	36.3	3.2	1.7	0.0	0.0	3.7	3.5
LnGrp LOS				A	A	D	A	A	A	A	A	A
Approach Vol, veh/h					1240			278			1443	
Approach Delay, s/veh					36.3			1.9			3.6	
Approach LOS					D			A			A	

Timer - Assigned Phs	2		6		8			
Phs Duration (G+Y+Rc), s	46.7		46.7		43.3			
Change Period (Y+Rc), s	4.5		4.5		4.5			
Max Green Setting (Gmax), s	40.5		40.5		40.5			
Max Q Clear Time (g_c+I1), s	8.1		6.6		36.7			
Green Ext Time (p_c), s	2.4		12.2		2.1			

Intersection Summary		
HCM 6th Ctrl Delay	17.1	
HCM 6th LOS	B	

Notes
User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	238	8	14	0	0	0	0	123	32	1210	120	0
Future Volume (veh/h)	238	8	14	0	0	0	0	123	32	1210	120	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1737	1900	1737				0	1811	1811	1826	1796	0
Adj Flow Rate, veh/h	262	0	0				0	126	33	1322	0	0
Peak Hour Factor	0.98	0.98	0.98				0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	11	0	11				0	6	6	5	7	0
Cap, veh/h	350	201	0				0	800	203	1565	808	0
Arrive On Green	0.11	0.00	0.00				0.00	0.29	0.29	0.15	0.00	0.00
Sat Flow, veh/h	3309	1900	0				0	2808	690	3478	1796	0
Grp Volume(v), veh/h	262	0	0				0	78	81	1322	0	0
Grp Sat Flow(s),veh/h/ln	1654	1900	0				0	1721	1687	1739	1796	0
Q Serve(g_s), s	6.9	0.0	0.0				0.0	3.0	3.2	33.3	0.0	0.0
Cycle Q Clear(g_c), s	6.9	0.0	0.0				0.0	3.0	3.2	33.3	0.0	0.0
Prop In Lane	1.00		0.00				0.00		0.41	1.00		0.00
Lane Grp Cap(c), veh/h	350	201	0				0	506	496	1565	808	0
V/C Ratio(X)	0.75	0.00	0.00				0.00	0.15	0.16	0.84	0.00	0.00
Avail Cap(c_a), veh/h	662	380	0				0	506	496	1565	808	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	0.33	0.33	1.00
Upstream Filter(I)	1.00	0.00	0.00				0.00	1.00	1.00	0.69	0.00	0.00
Uniform Delay (d), s/veh	39.1	0.0	0.0				0.0	23.5	23.5	35.3	0.0	0.0
Incr Delay (d2), s/veh	3.2	0.0	0.0				0.0	0.6	0.7	4.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	0.0	0.0				0.0	1.3	1.3	16.3	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	42.3	0.0	0.0				0.0	24.1	24.2	39.3	0.0	0.0
LnGrp LOS	D	A	A				A	C	C	D	A	A
Approach Vol, veh/h		262						159			1322	
Approach Delay, s/veh		42.3						24.2			39.3	
Approach LOS		D						C			D	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	31.0	14.0	45.0
Change Period (Y+Rc), s	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.0	18.0	40.5
Max Q Clear Time (g_c+I1), s	5.2	8.9	35.3
Green Ext Time (p_c), s	0.6	0.6	2.7

Intersection Summary	
HCM 6th Ctrl Delay	38.4
HCM 6th LOS	D

Notes

User approved volume balancing among the lanes for turning movement.

- Peak Construction Year Conditions

Intersection	
Intersection Delay, s/veh	286.3
Intersection LOS	F

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	1658	3	13	628	3	20
Future Vol, veh/h	1658	3	13	628	3	20
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	5	67	85	5	67	63
Mvmt Flow	1783	3	14	675	3	22
Number of Lanes	2	1	1	2	0	2

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	3
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	3	0	3
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	3	0
HCM Control Delay	394.2	16.6	13.3
HCM LOS	F	C	B

Lane	NBLn1	NBLn2	NBLn3	WBLn1	WBLn2	WBLn3	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	100%	100%	0%	31%	0%
Vol Thru, %	100%	0%	0%	0%	0%	0%	69%	100%
Vol Right, %	0%	100%	100%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	13	314	314	829	829	3	10	13
LT Vol	0	0	0	829	829	0	3	0
Through Vol	13	0	0	0	0	0	7	13
RT Vol	0	314	314	0	0	3	0	0
Lane Flow Rate	14	338	338	891	891	3	10	14
Geometry Grp	8	8	8	7	7	7	8	8
Degree of Util (X)	0.034	0.633	0.466	1.689	1.95	0.003	0.029	0.039
Departure Headway (Hd)	9.073	7.005	5.212	6.82	7.874	3.834	10.427	10.201
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	397	520	696	535	464	916	345	353
Service Time	6.773	4.705	2.912	4.617	5.671	1.63	8.127	7.901
HCM Lane V/C Ratio	0.035	0.65	0.486	1.665	1.92	0.003	0.029	0.04
HCM Control Delay	12.1	21	12.4	335.8	454	6.6	13.4	13.3
HCM Lane LOS	B	C	B	F	F	A	B	B
HCM 95th-tile Q	0.1	4.4	2.5	51.3	59.2	0	0.1	0.1

Intersection	
Int Delay, s/veh	0.3

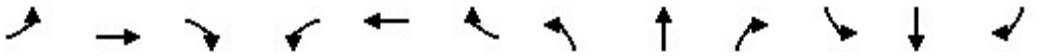
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	2	0	863	0	0	0	0	643	1187	8	1666	0
Future Vol, veh/h	2	0	863	0	0	0	0	643	1187	8	1666	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	Free	-	-	None	-	-	Free	-	-	None
Storage Length	-	-	0	-	-	-	-	-	250	0	-	-
Veh in Median Storage, #	-	0	-	-	16979	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	100	0	2	0	0	0	0	7	7	25	6	0
Mvmt Flow	2	0	918	0	0	0	0	684	1263	9	1772	0

Major/Minor	Minor2			Major1			Major2		
Conflicting Flow All	2132	2474	-	-	0	-	684	0	0
Stage 1	1790	1790	-	-	-	-	-	-	-
Stage 2	342	684	-	-	-	-	-	-	-
Critical Hdwy	8.8	6.5	-	-	-	-	4.6	-	-
Critical Hdwy Stg 1	7.8	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	7.8	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	4.5	4	-	-	-	-	2.45	-	-
Pot Cap-1 Maneuver	12	30	0	0	-	0	767	-	0
Stage 1	41	135	0	0	-	0	-	-	0
Stage 2	469	452	0	0	-	0	-	-	0
Platoon blocked, %					-			-	
Mov Cap-1 Maneuver	12	0	-	-	-	-	767	-	-
Mov Cap-2 Maneuver	12	0	-	-	-	-	-	-	-
Stage 1	41	0	-	-	-	-	-	-	-
Stage 2	463	0	-	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	$ 361.1	0	0
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	EBLn1	EBLn2	SBL	SBT
Capacity (veh/h)	-	12	-	767	-
HCM Lane V/C Ratio	-	0.177	-	0.011	-
HCM Control Delay (s)	-	$ 361.1	0	9.7	-
HCM Lane LOS	-	F	A	A	-
HCM 95th %tile Q(veh)	-	0.5	-	0	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	12	1	1646	4	343	0	0	1154	291
Future Volume (veh/h)	0	0	0	12	1	1646	4	343	0	0	1154	291
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1841	1900	1841	1900	1826	0	0	1826	1767
Adj Flow Rate, veh/h				0	0	1748	4	361	0	0	1215	306
Peak Hour Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %				4	0	4	0	5	0	0	5	9
Cap, veh/h				0	961	1577	144	1368	0	0	1440	591
Arrive On Green				0.00	0.00	0.51	0.79	0.79	0.00	0.00	0.79	0.79
Sat Flow, veh/h				0	1900	3120	348	3561	0	0	3652	1497
Grp Volume(v), veh/h				0	0	1748	4	361	0	0	1215	306
Grp Sat Flow(s),veh/h/ln				0	1900	1560	348	1735	0	0	1826	1497
Q Serve(g_s), s				0.0	0.0	45.5	0.7	2.5	0.0	0.0	18.9	6.6
Cycle Q Clear(g_c), s				0.0	0.0	45.5	19.6	2.5	0.0	0.0	18.9	6.6
Prop In Lane				0.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				0	961	1577	144	1368	0	0	1440	591
V/C Ratio(X)				0.00	0.00	1.11	0.03	0.26	0.00	0.00	0.84	0.52
Avail Cap(c_a), veh/h				0	961	1577	144	1368	0	0	1440	591
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
Upstream Filter(I)				0.00	0.00	1.00	0.77	0.77	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	0.0	22.2	13.9	6.0	0.0	0.0	7.7	6.4
Incr Delay (d2), s/veh				0.0	0.0	58.4	0.3	0.4	0.0	0.0	6.2	3.2
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	0.0	27.9	0.1	0.9	0.0	0.0	4.2	1.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				0.0	0.0	80.7	14.2	6.4	0.0	0.0	13.9	9.7
LnGrp LOS				A	A	F	B	A	A	A	B	A
Approach Vol, veh/h					1748			365			1521	
Approach Delay, s/veh					80.7			6.5			13.1	
Approach LOS					F			A			B	

Timer - Assigned Phs	2		6		8			
Phs Duration (G+Y+Rc), s	40.0		40.0		50.0			
Change Period (Y+Rc), s	4.5		4.5		4.5			
Max Green Setting (Gmax), s	35.5		35.5		45.5			
Max Q Clear Time (g_c+I1), s	21.6		20.9		47.5			
Green Ext Time (p_c), s	2.0		8.6		0.0			

Intersection Summary		
HCM 6th Ctrl Delay	44.9	
HCM 6th LOS	D	

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	330	7	11	0	0	0	0	29	14	1113	59	0
Future Volume (veh/h)	330	7	11	0	0	0	0	29	14	1113	59	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1781	1693	1781				0	1337	1337	1826	1737	0
Adj Flow Rate, veh/h	384	0	0				0	32	16	1284	0	0
Peak Hour Factor	0.90	0.90	0.90				0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	8	14	8				0	38	38	5	11	0
Cap, veh/h	476	238	0				0	437	203	1565	782	0
Arrive On Green	0.14	0.00	0.00				0.00	0.26	0.26	0.45	0.00	0.00
Sat Flow, veh/h	3393	1693	0				0	1751	782	3478	1737	0
Grp Volume(v), veh/h	384	0	0				0	24	24	1284	0	0
Grp Sat Flow(s),veh/h/ln	1697	1693	0				0	1270	1196	1739	1737	0
Q Serve(g_s), s	9.9	0.0	0.0				0.0	1.3	1.4	29.0	0.0	0.0
Cycle Q Clear(g_c), s	9.9	0.0	0.0				0.0	1.3	1.4	29.0	0.0	0.0
Prop In Lane	1.00		0.00				0.00		0.65	1.00		0.00
Lane Grp Cap(c), veh/h	476	238	0				0	330	311	1565	782	0
V/C Ratio(X)	0.81	0.00	0.00				0.00	0.07	0.08	0.82	0.00	0.00
Avail Cap(c_a), veh/h	679	339	0				0	330	311	1565	782	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00				0.00	1.00	1.00	0.19	0.00	0.00
Uniform Delay (d), s/veh	37.5	0.0	0.0				0.0	25.1	25.2	21.6	0.0	0.0
Incr Delay (d2), s/veh	4.8	0.0	0.0				0.0	0.4	0.5	1.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	0.0	0.0				0.0	0.4	0.4	11.3	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	42.3	0.0	0.0				0.0	25.6	25.7	22.6	0.0	0.0
LnGrp LOS	D	A	A				A	C	C	C	A	A
Approach Vol, veh/h		384						48			1284	
Approach Delay, s/veh		42.3						25.6			22.6	
Approach LOS		D						C			C	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	27.9	17.1	45.0
Change Period (Y+Rc), s	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.0	18.0	40.5
Max Q Clear Time (g_c+I1), s	3.4	11.9	31.0
Green Ext Time (p_c), s	0.1	0.8	4.0

Intersection Summary	
HCM 6th Ctrl Delay	27.1
HCM 6th LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

Intersection	
Intersection Delay, s/veh	75.5
Intersection LOS	F

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	1066	11	5	878	2	18
Future Vol, veh/h	1066	11	5	878	2	18
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	6	27	60	3	50	72
Mvmt Flow	1110	11	5	915	2	19
Number of Lanes	2	1	1	2	0	2

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	3
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	3	0	3
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	3	0
HCM Control Delay	116.9	26.5	13.6
HCM LOS	F	D	B

Lane	NBLn1	NBLn2	NBLn3	WBLn1	WBLn2	WBLn3	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	100%	100%	0%	25%	0%
Vol Thru, %	100%	0%	0%	0%	0%	0%	75%	100%
Vol Right, %	0%	100%	100%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	5	439	439	533	533	11	8	12
LT Vol	0	0	0	533	533	0	2	0
Through Vol	5	0	0	0	0	0	6	12
RT Vol	0	439	439	0	0	11	0	0
Lane Flow Rate	5	457	457	555	555	11	8	12
Geometry Grp	8	8	8	7	7	7	8	8
Degree of Util (X)	0.012	0.847	0.626	1.131	1.186	0.014	0.023	0.036
Departure Headway (Hd)	8.624	6.938	5.168	7.333	7.69	4.33	10.482	10.739
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	417	526	704	500	477	831	344	335
Service Time	6.324	4.638	2.868	5.034	5.391	2.031	8.182	8.439
HCM Lane V/C Ratio	0.012	0.869	0.649	1.11	1.164	0.013	0.023	0.036
HCM Control Delay	11.4	37.1	16.1	107.3	128.8	7.1	13.4	13.8
HCM Lane LOS	B	E	C	F	F	A	B	B
HCM 95th-tile Q	0	8.8	4.4	19	20.9	0	0.1	0.1

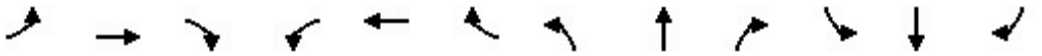
Intersection	
Int Delay, s/veh	0.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	4	0	634	0	0	0	0	886	1303	20	1066	0
Future Vol, veh/h	4	0	634	0	0	0	0	886	1303	20	1066	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	Free	-	-	None	-	-	Free	-	-	None
Storage Length	-	-	0	-	-	-	-	-	250	0	-	-
Veh in Median Storage, #	-	0	-	-	16979	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	4	0	0	0	0	3	5	74	5	0
Mvmt Flow	4	0	667	0	0	0	0	933	1372	21	1122	0

Major/Minor	Minor2			Major1			Major2		
Conflicting Flow All	1631	2097	-	-	0	-	933	0	0
Stage 1	1164	1164	-	-	-	-	-	-	-
Stage 2	467	933	-	-	-	-	-	-	-
Critical Hdwy	6.8	6.5	-	-	-	-	5.58	-	-
Critical Hdwy Stg 1	5.8	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.8	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	-	-	-	-	2.94	-	-
Pot Cap-1 Maneuver	94	53	0	0	-	0	412	-	0
Stage 1	263	271	0	0	-	0	-	-	0
Stage 2	603	348	0	0	-	0	-	-	0
Platoon blocked, %					-			-	
Mov Cap-1 Maneuver	89	0	-	-	-	-	412	-	-
Mov Cap-2 Maneuver	89	0	-	-	-	-	-	-	-
Stage 1	263	0	-	-	-	-	-	-	-
Stage 2	572	0	-	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	47.4	0	0.3
HCM LOS	E		

Minor Lane/Major Mvmt	NBT	EBLn1	EBLn2	SBL	SBT
Capacity (veh/h)	-	89	-	412	-
HCM Lane V/C Ratio	-	0.047	-	0.051	-
HCM Control Delay (s)	-	47.4	0	14.2	-
HCM Lane LOS	-	E	A	B	-
HCM 95th %tile Q(veh)	-	0.1	-	0.2	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	105	25	1368	31	404	0	0	1310	364
Future Volume (veh/h)	0	0	0	105	25	1368	31	404	0	0	1310	364
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1811	1781	1811	1856	1811	0	0	1826	1826
Adj Flow Rate, veh/h				0	0	1543	32	416	0	0	1351	375
Peak Hour Factor				0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %				6	8	6	3	6	0	0	5	5
Cap, veh/h				0	802	1381	166	1548	0	0	1643	696
Arrive On Green				0.00	0.00	0.45	0.90	0.90	0.00	0.00	0.90	0.90
Sat Flow, veh/h				0	1781	3070	279	3532	0	0	3652	1547
Grp Volume(v), veh/h				0	0	1543	32	416	0	0	1351	375
Grp Sat Flow(s),veh/h/ln				0	1781	1535	279	1721	0	0	1826	1547
Q Serve(g_s), s				0.0	0.0	40.5	5.1	1.4	0.0	0.0	12.8	4.2
Cycle Q Clear(g_c), s				0.0	0.0	40.5	18.0	1.4	0.0	0.0	12.8	4.2
Prop In Lane				0.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				0	802	1381	166	1548	0	0	1643	696
V/C Ratio(X)				0.00	0.00	1.12	0.19	0.27	0.00	0.00	0.82	0.54
Avail Cap(c_a), veh/h				0	802	1381	166	1548	0	0	1643	696
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
Upstream Filter(I)				0.00	0.00	1.00	0.88	0.88	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	0.0	24.8	6.6	2.5	0.0	0.0	3.1	2.7
Incr Delay (d2), s/veh				0.0	0.0	63.1	2.3	0.4	0.0	0.0	4.8	3.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	0.0	25.7	0.3	0.5	0.0	0.0	2.5	1.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				0.0	0.0	87.8	8.8	2.9	0.0	0.0	7.9	5.7
LnGrp LOS				A	A	F	A	A	A	A	A	A
Approach Vol, veh/h					1543			448			1726	
Approach Delay, s/veh					87.8			3.3			7.4	
Approach LOS					F			A			A	

Timer - Assigned Phs	2		6		8			
Phs Duration (G+Y+Rc), s	45.0		45.0		45.0			
Change Period (Y+Rc), s	4.5		4.5		4.5			
Max Green Setting (Gmax), s	40.5		40.5		40.5			
Max Q Clear Time (g_c+I1), s	20.0		14.8		42.5			
Green Ext Time (p_c), s	3.5		13.7		0.0			

Intersection Summary	
HCM 6th Ctrl Delay	40.3
HCM 6th LOS	D

Notes
User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	327	8	14	0	0	0	0	200	33	1394	159	0
Future Volume (veh/h)	327	8	14	0	0	0	0	200	33	1394	159	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1737	1900	1737				0	1811	1811	1826	1796	0
Adj Flow Rate, veh/h	353	0	0				0	204	34	1538	0	0
Peak Hour Factor	0.98	0.98	0.98				0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	11	0	11				0	6	6	5	7	0
Cap, veh/h	443	254	0				0	788	129	1565	808	0
Arrive On Green	0.13	0.00	0.00				0.00	0.27	0.27	0.15	0.00	0.00
Sat Flow, veh/h	3309	1900	0				0	3050	485	3478	1796	0
Grp Volume(v), veh/h	353	0	0				0	117	121	1538	0	0
Grp Sat Flow(s),veh/h/ln	1654	1900	0				0	1721	1724	1739	1796	0
Q Serve(g_s), s	9.3	0.0	0.0				0.0	4.8	5.0	39.7	0.0	0.0
Cycle Q Clear(g_c), s	9.3	0.0	0.0				0.0	4.8	5.0	39.7	0.0	0.0
Prop In Lane	1.00		0.00				0.00		0.28	1.00		0.00
Lane Grp Cap(c), veh/h	443	254	0				0	458	459	1565	808	0
V/C Ratio(X)	0.80	0.00	0.00				0.00	0.26	0.26	0.98	0.00	0.00
Avail Cap(c_a), veh/h	662	380	0				0	458	459	1565	808	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	0.33	0.33	1.00
Upstream Filter(I)	1.00	0.00	0.00				0.00	1.00	1.00	0.30	0.00	0.00
Uniform Delay (d), s/veh	37.8	0.0	0.0				0.0	26.0	26.1	38.0	0.0	0.0
Incr Delay (d2), s/veh	4.1	0.0	0.0				0.0	1.3	1.4	9.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	0.0	0.0				0.0	2.1	2.2	20.3	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	41.9	0.0	0.0				0.0	27.3	27.4	47.0	0.0	0.0
LnGrp LOS	D	A	A				A	C	C	D	A	A
Approach Vol, veh/h		353						238			1538	
Approach Delay, s/veh		41.9						27.4			47.0	
Approach LOS		D						C			D	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	28.5	16.5	45.0
Change Period (Y+Rc), s	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.0	18.0	40.5
Max Q Clear Time (g_c+I1), s	7.0	11.3	41.7
Green Ext Time (p_c), s	0.9	0.7	0.0

Intersection Summary	
HCM 6th Ctrl Delay	44.0
HCM 6th LOS	D

Notes

User approved volume balancing among the lanes for turning movement.

- Peak Construction Year plus Project Conditions

Intersection	
Intersection Delay, s/veh	286.3
Intersection LOS	F

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	1658	3	13	628	3	20
Future Vol, veh/h	1658	3	13	628	3	20
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	5	67	85	5	67	63
Mvmt Flow	1783	3	14	675	3	22
Number of Lanes	2	1	1	2	0	2

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	3
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	3	0	3
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	3	0
HCM Control Delay	394.2	16.6	13.3
HCM LOS	F	C	B

Lane	NBLn1	NBLn2	NBLn3	WBLn1	WBLn2	WBLn3	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	100%	100%	0%	31%	0%
Vol Thru, %	100%	0%	0%	0%	0%	0%	69%	100%
Vol Right, %	0%	100%	100%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	13	314	314	829	829	3	10	13
LT Vol	0	0	0	829	829	0	3	0
Through Vol	13	0	0	0	0	0	7	13
RT Vol	0	314	314	0	0	3	0	0
Lane Flow Rate	14	338	338	891	891	3	10	14
Geometry Grp	8	8	8	7	7	7	8	8
Degree of Util (X)	0.034	0.633	0.466	1.689	1.95	0.003	0.029	0.039
Departure Headway (Hd)	9.073	7.005	5.212	6.82	7.874	3.834	10.427	10.201
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	397	520	696	535	464	916	345	353
Service Time	6.773	4.705	2.912	4.617	5.671	1.63	8.127	7.901
HCM Lane V/C Ratio	0.035	0.65	0.486	1.665	1.92	0.003	0.029	0.04
HCM Control Delay	12.1	21	12.4	335.8	454	6.6	13.4	13.3
HCM Lane LOS	B	C	B	F	F	A	B	B
HCM 95th-tile Q	0.1	4.4	2.5	51.3	59.2	0	0.1	0.1

Intersection	
Int Delay, s/veh	0.3

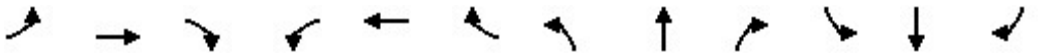
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	2	0	869	0	0	0	0	643	1202	8	1666	0
Future Vol, veh/h	2	0	869	0	0	0	0	643	1202	8	1666	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	Free	-	-	None	-	-	Free	-	-	None
Storage Length	-	-	0	-	-	-	-	-	250	0	-	-
Veh in Median Storage, #	-	0	-	-	16979	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	100	0	2	0	0	0	0	7	7	25	6	0
Mvmt Flow	2	0	924	0	0	0	0	684	1279	9	1772	0

Major/Minor	Minor2			Major1			Major2		
Conflicting Flow All	2132	2474	-	-	0	-	684	0	0
Stage 1	1790	1790	-	-	-	-	-	-	-
Stage 2	342	684	-	-	-	-	-	-	-
Critical Hdwy	8.8	6.5	-	-	-	-	4.6	-	-
Critical Hdwy Stg 1	7.8	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	7.8	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	4.5	4	-	-	-	-	2.45	-	-
Pot Cap-1 Maneuver	12	30	0	0	-	0	767	-	0
Stage 1	41	135	0	0	-	0	-	-	0
Stage 2	469	452	0	0	-	0	-	-	0
Platoon blocked, %					-			-	
Mov Cap-1 Maneuver	12	0	-	-	-	-	767	-	-
Mov Cap-2 Maneuver	12	0	-	-	-	-	-	-	-
Stage 1	41	0	-	-	-	-	-	-	-
Stage 2	463	0	-	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	$ 361.1	0	0
HCM LOS	F		

Minor Lane/Major Mvmt	NBT	EBLn1	EBLn2	SBL	SBT
Capacity (veh/h)	-	12	-	767	-
HCM Lane V/C Ratio	-	0.177	-	0.011	-
HCM Control Delay (s)	-	$ 361.1	0	9.7	-
HCM Lane LOS	-	F	A	A	-
HCM 95th %tile Q(veh)	-	0.5	-	0	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	12	1	1678	4	343	0	0	1154	291
Future Volume (veh/h)	0	0	0	12	1	1678	4	343	0	0	1154	291
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1841	1900	1841	1900	1826	0	0	1826	1767
Adj Flow Rate, veh/h				0	0	1781	4	361	0	0	1215	306
Peak Hour Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %				4	0	4	0	5	0	0	5	9
Cap, veh/h				0	965	1584	142	1361	0	0	1432	587
Arrive On Green				0.00	0.00	0.51	0.78	0.78	0.00	0.00	0.78	0.78
Sat Flow, veh/h				0	1900	3120	348	3561	0	0	3652	1497
Grp Volume(v), veh/h				0	0	1781	4	361	0	0	1215	306
Grp Sat Flow(s),veh/h/ln				0	1900	1560	348	1735	0	0	1826	1497
Q Serve(g_s), s				0.0	0.0	45.7	0.7	2.5	0.0	0.0	19.3	6.7
Cycle Q Clear(g_c), s				0.0	0.0	45.7	20.0	2.5	0.0	0.0	19.3	6.7
Prop In Lane				0.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				0	965	1584	142	1361	0	0	1432	587
V/C Ratio(X)				0.00	0.00	1.12	0.03	0.27	0.00	0.00	0.85	0.52
Avail Cap(c_a), veh/h				0	965	1584	142	1361	0	0	1432	587
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
Upstream Filter(I)				0.00	0.00	1.00	0.77	0.77	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	0.0	22.1	14.4	6.2	0.0	0.0	8.0	6.6
Incr Delay (d2), s/veh				0.0	0.0	64.8	0.3	0.4	0.0	0.0	6.4	3.3
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	0.0	29.4	0.1	0.9	0.0	0.0	4.3	2.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				0.0	0.0	86.9	14.7	6.5	0.0	0.0	14.4	9.9
LnGrp LOS				A	A	F	B	A	A	A	B	A
Approach Vol, veh/h					1781			365			1521	
Approach Delay, s/veh					86.9			6.6			13.5	
Approach LOS					F			A			B	

Timer - Assigned Phs	2		6		8			
Phs Duration (G+Y+Rc), s	39.8		39.8		50.2			
Change Period (Y+Rc), s	4.5		4.5		4.5			
Max Green Setting (Gmax), s	35.3		35.3		45.7			
Max Q Clear Time (g_c+I1), s	22.0		21.3		47.7			
Green Ext Time (p_c), s	2.0		8.3		0.0			

Intersection Summary		
HCM 6th Ctrl Delay	48.5	
HCM 6th LOS	D	

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	330	7	11	0	0	0	0	29	14	1113	59	0
Future Volume (veh/h)	330	7	11	0	0	0	0	29	14	1113	59	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1781	1693	1781				0	1337	1337	1826	1737	0
Adj Flow Rate, veh/h	384	0	0				0	32	16	1284	0	0
Peak Hour Factor	0.90	0.90	0.90				0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	8	14	8				0	38	38	5	11	0
Cap, veh/h	476	238	0				0	437	203	1565	782	0
Arrive On Green	0.14	0.00	0.00				0.00	0.26	0.26	0.45	0.00	0.00
Sat Flow, veh/h	3393	1693	0				0	1751	782	3478	1737	0
Grp Volume(v), veh/h	384	0	0				0	24	24	1284	0	0
Grp Sat Flow(s),veh/h/ln	1697	1693	0				0	1270	1196	1739	1737	0
Q Serve(g_s), s	9.9	0.0	0.0				0.0	1.3	1.4	29.0	0.0	0.0
Cycle Q Clear(g_c), s	9.9	0.0	0.0				0.0	1.3	1.4	29.0	0.0	0.0
Prop In Lane	1.00		0.00				0.00		0.65	1.00		0.00
Lane Grp Cap(c), veh/h	476	238	0				0	330	311	1565	782	0
V/C Ratio(X)	0.81	0.00	0.00				0.00	0.07	0.08	0.82	0.00	0.00
Avail Cap(c_a), veh/h	679	339	0				0	330	311	1565	782	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00				0.00	1.00	1.00	0.17	0.00	0.00
Uniform Delay (d), s/veh	37.5	0.0	0.0				0.0	25.1	25.2	21.6	0.0	0.0
Incr Delay (d2), s/veh	4.8	0.0	0.0				0.0	0.4	0.5	0.9	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	0.0	0.0				0.0	0.4	0.4	11.2	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	42.3	0.0	0.0				0.0	25.6	25.7	22.5	0.0	0.0
LnGrp LOS	D	A	A				A	C	C	C	A	A
Approach Vol, veh/h		384						48			1284	
Approach Delay, s/veh		42.3						25.6			22.5	
Approach LOS		D						C			C	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	27.9	17.1	45.0
Change Period (Y+Rc), s	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.0	18.0	40.5
Max Q Clear Time (g_c+I1), s	3.4	11.9	31.0
Green Ext Time (p_c), s	0.1	0.8	4.0

Intersection Summary	
HCM 6th Ctrl Delay	27.0
HCM 6th LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

Intersection	
Intersection Delay, s/veh	76.1
Intersection LOS	F

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	1066	11	5	884	2	18
Future Vol, veh/h	1066	11	5	884	2	18
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	6	27	60	3	50	72
Mvmt Flow	1110	11	5	921	2	19
Number of Lanes	2	1	1	2	0	2

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	3
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	3	0	3
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	3	0
HCM Control Delay	117.7	27	13.7
HCM LOS	F	D	B

Lane	NBLn1	NBLn2	NBLn3	WBLn1	WBLn2	WBLn3	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	100%	100%	0%	25%	0%
Vol Thru, %	100%	0%	0%	0%	0%	0%	75%	100%
Vol Right, %	0%	100%	100%	0%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	5	442	442	533	533	11	8	12
LT Vol	0	0	0	533	533	0	2	0
Through Vol	5	0	0	0	0	0	6	12
RT Vol	0	442	442	0	0	11	0	0
Lane Flow Rate	5	460	460	555	555	11	8	12
Geometry Grp	8	8	8	7	7	7	8	8
Degree of Util (X)	0.012	0.853	0.631	1.133	1.188	0.014	0.023	0.036
Departure Headway (Hd)	8.626	6.939	5.17	7.344	7.701	4.342	10.497	10.754
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	417	525	704	500	477	829	343	335
Service Time	6.326	4.639	2.87	5.045	5.403	2.043	8.197	8.454
HCM Lane V/C Ratio	0.012	0.876	0.653	1.11	1.164	0.013	0.023	0.036
HCM Control Delay	11.4	37.9	16.3	108.1	129.6	7.1	13.4	13.9
HCM Lane LOS	B	E	C	F	F	A	B	B
HCM 95th-tile Q	0	9	4.5	19.1	20.9	0	0.1	0.1

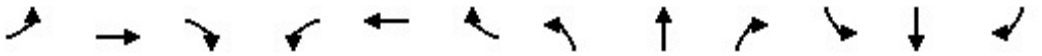
Intersection	
Int Delay, s/veh	0.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	4	0	634	0	0	0	0	892	1334	20	1066	0
Future Vol, veh/h	4	0	634	0	0	0	0	892	1334	20	1066	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	Free	-	-	None	-	-	Free	-	-	None
Storage Length	-	-	0	-	-	-	-	-	250	0	-	-
Veh in Median Storage, #	-	0	-	-	16979	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	4	0	0	0	0	3	5	74	5	0
Mvmt Flow	4	0	667	0	0	0	0	939	1404	21	1122	0

Major/Minor	Minor2			Major1			Major2		
Conflicting Flow All	1634	2103	-	-	0	-	939	0	0
Stage 1	1164	1164	-	-	-	-	-	-	-
Stage 2	470	939	-	-	-	-	-	-	-
Critical Hdwy	6.8	6.5	-	-	-	-	5.58	-	-
Critical Hdwy Stg 1	5.8	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.8	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	-	-	-	-	2.94	-	-
Pot Cap-1 Maneuver	94	52	0	0	-	0	409	-	0
Stage 1	263	271	0	0	-	0	-	-	0
Stage 2	601	345	0	0	-	0	-	-	0
Platoon blocked, %					-			-	
Mov Cap-1 Maneuver	89	0	-	-	-	-	409	-	-
Mov Cap-2 Maneuver	89	0	-	-	-	-	-	-	-
Stage 1	263	0	-	-	-	-	-	-	-
Stage 2	570	0	-	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	47.4	0	0.3
HCM LOS	E		

Minor Lane/Major Mvmt	NBT	EBLn1	EBLn2	SBL	SBT
Capacity (veh/h)	-	89	-	409	-
HCM Lane V/C Ratio	-	0.047	-	0.051	-
HCM Control Delay (s)	-	47.4	0	14.3	-
HCM Lane LOS	-	E	A	B	-
HCM 95th %tile Q(veh)	-	0.1	-	0.2	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	105	25	1384	31	404	0	0	1310	364
Future Volume (veh/h)	0	0	0	105	25	1384	31	404	0	0	1310	364
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1811	1781	1811	1856	1811	0	0	1826	1826
Adj Flow Rate, veh/h				0	0	1560	32	416	0	0	1351	375
Peak Hour Factor				0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %				6	8	6	3	6	0	0	5	5
Cap, veh/h				0	802	1381	166	1548	0	0	1643	696
Arrive On Green				0.00	0.00	0.45	0.90	0.90	0.00	0.00	0.90	0.90
Sat Flow, veh/h				0	1781	3070	279	3532	0	0	3652	1547
Grp Volume(v), veh/h				0	0	1560	32	416	0	0	1351	375
Grp Sat Flow(s),veh/h/ln				0	1781	1535	279	1721	0	0	1826	1547
Q Serve(g_s), s				0.0	0.0	40.5	5.1	1.4	0.0	0.0	12.8	4.2
Cycle Q Clear(g_c), s				0.0	0.0	40.5	18.0	1.4	0.0	0.0	12.8	4.2
Prop In Lane				0.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				0	802	1381	166	1548	0	0	1643	696
V/C Ratio(X)				0.00	0.00	1.13	0.19	0.27	0.00	0.00	0.82	0.54
Avail Cap(c_a), veh/h				0	802	1381	166	1548	0	0	1643	696
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	2.00	2.00
Upstream Filter(I)				0.00	0.00	1.00	0.88	0.88	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	0.0	24.8	6.6	2.5	0.0	0.0	3.1	2.7
Incr Delay (d2), s/veh				0.0	0.0	68.0	2.3	0.4	0.0	0.0	4.8	3.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	0.0	26.7	0.3	0.5	0.0	0.0	2.5	1.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				0.0	0.0	92.7	8.8	2.9	0.0	0.0	7.9	5.7
LnGrp LOS				A	A	F	A	A	A	A	A	A
Approach Vol, veh/h					1560			448			1726	
Approach Delay, s/veh					92.7			3.3			7.4	
Approach LOS					F			A			A	

Timer - Assigned Phs	2		6		8			
Phs Duration (G+Y+Rc), s	45.0		45.0		45.0			
Change Period (Y+Rc), s	4.5		4.5		4.5			
Max Green Setting (Gmax), s	40.5		40.5		40.5			
Max Q Clear Time (g_c+I1), s	20.0		14.8		42.5			
Green Ext Time (p_c), s	3.5		13.7		0.0			

Intersection Summary	
HCM 6th Ctrl Delay	42.6
HCM 6th LOS	D

Notes
User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	327	8	14	0	0	0	0	200	33	1394	159	0
Future Volume (veh/h)	327	8	14	0	0	0	0	200	33	1394	159	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1737	1900	1737				0	1811	1811	1826	1796	0
Adj Flow Rate, veh/h	353	0	0				0	204	34	1538	0	0
Peak Hour Factor	0.98	0.98	0.98				0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	11	0	11				0	6	6	5	7	0
Cap, veh/h	443	254	0				0	788	129	1565	808	0
Arrive On Green	0.13	0.00	0.00				0.00	0.27	0.27	0.15	0.00	0.00
Sat Flow, veh/h	3309	1900	0				0	3050	485	3478	1796	0
Grp Volume(v), veh/h	353	0	0				0	117	121	1538	0	0
Grp Sat Flow(s),veh/h/ln	1654	1900	0				0	1721	1724	1739	1796	0
Q Serve(g_s), s	9.3	0.0	0.0				0.0	4.8	5.0	39.7	0.0	0.0
Cycle Q Clear(g_c), s	9.3	0.0	0.0				0.0	4.8	5.0	39.7	0.0	0.0
Prop In Lane	1.00		0.00				0.00		0.28	1.00		0.00
Lane Grp Cap(c), veh/h	443	254	0				0	458	459	1565	808	0
V/C Ratio(X)	0.80	0.00	0.00				0.00	0.26	0.26	0.98	0.00	0.00
Avail Cap(c_a), veh/h	662	380	0				0	458	459	1565	808	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	0.33	0.33	1.00
Upstream Filter(I)	1.00	0.00	0.00				0.00	1.00	1.00	0.29	0.00	0.00
Uniform Delay (d), s/veh	37.8	0.0	0.0				0.0	26.0	26.1	38.0	0.0	0.0
Incr Delay (d2), s/veh	4.1	0.0	0.0				0.0	1.3	1.4	8.9	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	0.0	0.0				0.0	2.1	2.2	20.2	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	41.9	0.0	0.0				0.0	27.3	27.4	46.8	0.0	0.0
LnGrp LOS	D	A	A				A	C	C	D	A	A
Approach Vol, veh/h		353						238			1538	
Approach Delay, s/veh		41.9						27.4			46.8	
Approach LOS		D						C			D	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	28.5	16.5	45.0
Change Period (Y+Rc), s	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.0	18.0	40.5
Max Q Clear Time (g_c+I1), s	7.0	11.3	41.7
Green Ext Time (p_c), s	0.9	0.7	0.0

Intersection Summary	
HCM 6th Ctrl Delay	43.8
HCM 6th LOS	D

Notes

User approved volume balancing among the lanes for turning movement.

- Cumulative Projects Trip Generation

Table A. Cumulative Projects Trip Generation

Land Use		Units	Daily	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total
Trip Rates[1]									
Single Family Residential (ITE Code 210)		DU	9.44	0.19	0.56	0.74	0.62	0.37	0.99
Single Family Residential (ITE Code 210)		DU	9.44	0.19	0.56	0.74	0.62	0.37	0.99
Park		acre	0.78	0.01	0.01	0.02	0.06	0.05	0.11
Hotel (ITE Code 310)		Rms	8.36	0.28	0.19	0.47	0.31	0.29	0.60
Multifamily Units		DU	5.44	0.09	0.27	0.36	0.27	0.17	0.44
Shopping Center (ITE Code 820)		TSF	37.75	0.58	0.36	0.94	1.83	1.98	3.81
Daycare Center (ITE Code 565)		Students	4.09	0.41	0.37	0.78	0.37	0.42	0.79
Mini Warehouse (ITE Code 151)		TSF	1.51	0.06	0.04	0.10	0.08	0.09	0.17
Convenience Store (ITE Code 851)		TSF	762.28	31.27	31.27	62.54	25.05	24.06	49.11
Hotel (ITE Code 310)		Rms	8.36	0.28	0.19	0.47	0.31	0.29	0.60
Restaurant (ITE Code 932)		TSF	112.18	5.47	4.47	9.94	6.06	3.71	9.77
Fast Food w Drive Thru (ITE Code 934)		TSF	470.95	20.50	19.69	40.19	16.99	15.68	32.67
Coffee Shop w Drive Thru (ITE Code 937)		TSF	820.38	45.38	43.61	88.99	21.69	21.69	43.38
Shopping Center (ITE Code 820)		TSF	37.75	0.58	0.36	0.94	1.83	1.98	3.81
Health/Fitness Club (ITE Code 492)		TSF	30.00	0.67	0.64	1.31	1.97	1.48	3.45
Movie Theatre (ITE Code 444)		TSF	80.00	0.11	0.11	0.22	5.80	0.37	6.17
Manufacturing (ITE 140)		TSF	3.93	0.48	0.14	0.62	0.21	0.46	0.67
Automated Car Wash (ITE 948)		TSF	142.00	5.68	5.68	11.36	7.10	7.10	14.20
General Office (ITE 710)		TSF	9.74	1.00	0.16	1.16	0.18	0.97	1.15
Cumulative Projects Trip Generation									
20700 W Sesnon Blvd (SF Residential)	774	DU	7,307	143	430	573	483	284	766
12450 Mason Ave (220 lot SF Residential)	220.0	DU	2,077	41	122	163	137	81	218
11401 N Porter Ranch Dr (44,632 sq ft Specialty Grocery Store)	44.632	TSF	1,685	26	16	42	82	88	170
20059 W Rinaldi St (38,400 sq ft Movie Theatre)	38.400	TSF	3,072	4	4	8	223	14	237
11010 Sweetwater Court (77 homes)	77		727	14	43	57	48	28	76
11047 N De Soto Ave (Add bleachers to existing athletic field)									
10247 N Variel Ave (32 single family units)	32	DU	302	6	18	24	20	12	32
9805 N Mason Ave (18,016 sq ft grocery store)	18.016	TSF	74	7	7	14	7	8	14
9825 N Mason Ave (124 rms hotel, 10.35 TSF restaurant, 6.4 TSF Fast food w Drive Thru, 2 TSF drive thru coffee,17 TSF Retail, 20.125 TSF Gym	124	Rms	1,037	34	24	58	38	36	74
Restaurant	10.35	TSF	1,161	57	46	103	63	38	101
Pass by Reductions			-250	-12	-10	-22	-27	-17	-43
Fast Food w Drive Thru	6.4	TSF	3,014	131	126	257	109	100	209
Pass by Reductions			-754	-33	-32	-64	-54	-50	-105
Drive Thru Coffee	2.0	TSF	1,641	91	87	178	43	43	87
Pass by Reductions			-410	-23	-22	-44	-22	-22	-43
Retail	17.0	TSF	642	10	6	16	31	34	65
Gym	20.1	TSF	604	13	13	26	40	30	69
9631 N De Soto Ave (75,118 sq ft manufacturing bldg)	75.118	TSF	295	36	11	47	16	35	50
9505 N De Soto Ave (3,337 sq ft car wash)	3.337	TSF	474	19	19	38	24	24	47
9110 N De Soto Ave (82,347 commercial development incl 79847 SF storage bldg and 2500 sf conv store and gas station)	79.847	TSF	*121*	*5*	*3*	*8*	*6*	*7*	*14*
	2.5	TSF	1,906	78	78	156	63	60	123
11280 N WILBUR AVE 91326 (39000 sqft office building)	39.0		380	39	6	45	7	38	45
			25,103	687	995	1,683	1,335	871	2,206

Notes: TSF = Thousand Square Feet, VFP = vehicle fueling pumps, DU = Dwelling Units, Rms- Rooms

[1] Trip rates from the Institute of Transportation Engineers, Trip Generation, 10th Edition, 2017.