DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT



1010 10TH Street, Suite 3400, Modesto, CA 95354 Planning Phone: (209) 525-6330 Fax: (209) 525-5911 Building Phone: (209) 525-6557 Fax: (209) 525-7759

CEQA Referral Initial Study And Notice of Intent to Adopt a Negative Declaration

Date: July 29, 2022

To: Distribution List (See Attachment A)

From: Emily Basnight, Assistant Planner, Planning and Community Development

Subject: VARIANCE APPLICATION NO. PLN2022-0009 – FRITO-LAY, INC.

Comment Period: July 29, 2022 – August 31, 2022

Respond By: August 31, 2022

Public Hearing Date: September 15, 2022

You may have previously received an Early Consultation Notice regarding this project, and your comments, if provided, were incorporated into the Initial Study. Based on all comments received, Stanislaus County anticipates adopting a Negative Declaration for this project. This referral provides notice of a 30-day comment period during which Responsible and Trustee Agencies and other interested parties may provide comments to this Department regarding our proposal to adopt the Negative Declaration.

All applicable project documents are available for review at: Stanislaus County Department of Planning and Community Development, 1010 10th Street, Suite 3400, Modesto, CA 95354. Please provide any additional comments to the above address or call us at (209) 525-6330 if you have any questions. Thank you.

Applicant: Daniel O'Brien, Modesto Site Director, Frito-Lay, Inc.

Project Location: 600 Garner Road, between Yosemite Boulevard (SR 132) and Finch Road, in

the Modesto area.

APN: 009-018-055

Williamson Act

Contract: N/A

General Plan: Industrial

Current Zoning: Industrial (M)

Project Description: This is a request for a variance to the Industrial (M) zoning district height limit. The project proposes to expand the current Frito-Lay facility by constructing a 62,000± square-foot manufacturing building, 27,000± square-foot warehouse building, silos (one to be utilized for corn storage and one for cornmeal storage), and site improvements consisting of the following: a second rail branch; new solar photovoltaic carport; 14 vehicle charging stations for employees; a publicly available compressed natural gas fueling station; and a near zero emission and zero emission on and off-road fleet upgrades to increase the production capacity and reduce the need to import packaged snack food products from other plants. The proposed expansion will also include the addition of a new snack food production line for Onion Fried Snack (OFS) production, and the addition of a cornmeal receiving, storage, and handling system. The number

of employees is anticipated to increase by 206 as part of this project; increasing the number of employees to 486 during a maximum shift. The corn and cornmeal silos will be 85± feet tall; as unmanned fireproof structures the silos are considered to be permitted uses in the Industrial (M) zoning district and are not subject to a height limit pursuant to §21.60.040(B) of the County Zoning Ordinance. The proposed 62,000± square-foot manufacturing building will be 46 feet tall. The 27,000± square-foot warehouse is proposed to be 92 feet tall with an HVAC unit at the top bringing the total height to 97 feet tall; the warehouse will be composed of one floor, and a mezzanine. County Zoning Ordinance §21.60.040(A) requires building and appurtenant structures not to exceed 75 feet in height in the Industrial (M) zoning district. The additional height of the building is needed to accommodate construction of a three-crane automated storage and pallet retrieval system for bulk materials transported by truck and rail. The automated crane system will operate from the ground level and the first floor and mezzanine of the proposed warehouse will be manned daily, with up to four employees to oversee the crane system and operate forklifts from ground levels. The proposed warehouse and expansion will be located at an existing snack manufacturing facility on a 71.35± acre parcel in the Industrial (M) zoning district within the LAFCO adopted Sphere of Influence for the City of Modesto. The site is currently served with public sewer and water facilities by the City of Modesto. The site has access to County-maintained Garner Road and Leckron Road. The expansion of the facility is a permitted use in the Industrial (M) zoning district; however, the environmental review will cover the entire expansion request for the purpose of allowing Frito-Lay, Inc. to obtain Air District permits which require CEQA review for the expansion of the manufacturing and packaging operations for the new OFS production line. The Planning Commission will consider the variance for the additional height of the proposed 97-foot-tall warehouse building, and the CEQA review for the entire project.

Full document with attachments available for viewing at: http://www.stancounty.com/planning/pl/act-projects.shtm





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VARIANCE APPLICATION NO. PLN2022-0009 – FRITO-LAY, INC. Attachment A

Distribution List

Distri	bution List		
	CA DEPT OF CONSERVATION Land Resources	Х	STAN CO ALUC
Χ	CA DEPT OF FISH & WILDLIFE		STAN CO ANIMAL SERVICES
	CA DEPT OF FORESTRY (CAL FIRE)	Χ	STAN CO BUILDING PERMITS DIVISION
Χ	CA DEPT OF TRANSPORTATION DIST 10	Χ	STAN CO CEO
Χ	CA OPR STATE CLEARINGHOUSE		STAN CO CSA
	CA RWQCB CENTRAL VALLEY REGION	Х	STAN CO DER
	CA STATE LANDS COMMISSION	Χ	STAN CO ERC
	CEMETERY DISTRICT		STAN CO FARM BUREAU
	CENTRAL VALLEY FLOOD PROTECTION	Х	STAN CO HAZARDOUS MATERIALS
Χ	CITY OF MODESTO	Х	STAN CO PARKS & RECREATION
	COMMUNITY SERVICES/SANITARY DIST	Х	STAN CO PUBLIC WORKS
Χ	COOPERATIVE EXTENSION		STAN CO RISK MANAGEMENT
	COUNTY OF:	Х	STAN CO SHERIFF
	DER - GROUNDWATER RESOURCES DIVISION	Х	STAN CO SUPERVISOR DIST 5: C. CONDIT
X	FIRE PROTECTION DIST: STANISLAUS CONSOLIDATED	Х	STAN COUNTY COUNSEL
	GSA:	Χ	StanCOG
	HOSPITAL DIST:	Χ	STANISLAUS FIRE PREVENTION BUREAU
Χ	IRRIGATION DIST: MODESTO	Χ	STANISLAUS LAFCO
Χ	MOSQUITO DIST: EASTSIDE		STATE OF CA SWRCB – DIV OF DRINKING WATER DIST. 10
Χ	MOUNTAIN VALLEY EMERGENCY MEDICAL SERVICES	Х	SURROUNDING LAND OWNERS
	MUNICIPAL ADVISORY COUNCIL:	Х	TELEPHONE COMPANY: AT&T
Χ	PACIFIC GAS & ELECTRIC		TRIBAL CONTACTS (CA Government Code §65352.3)
	POSTMASTER:		US ARMY CORPS OF ENGINEERS
Х	RAILROAD: MODESTO AND EMPIRE TRACTION		US FISH & WILDLIFE
Χ	SAN JOAQUIN VALLEY APCD		US MILITARY (SB 1462)
Χ	SCHOOL DIST 1: EMPIRE UNION		USDA NRCS
Χ	SCHOOL DIST 2: MODESTO UNION		WATER DIST:
	WORKFORCE DEVELOPMENT	Х	MODESTO CITY-COUNTY AIRPORT
Χ	STAN CO AG COMMISSIONER	Х	TOULUMNE RIVER TRUST

STANISLAUS COUNTY CEQA REFERRAL RESPONSE FORM

Stanislaus County Planning & Community Development

TO:

	1010 10 th Street, Suite Modesto, CA 95354	e 3400	
FROM:			
SUBJECT:	VARIANCE APPLICA	TION NO. PLN2022-000	9 – FRITO-LAY, INC.
Based on this project:	s agency's particular fi	eld(s) of expertise, it is	our position the above described
		cant effect on the environ t effect on the environme	
		ich support our determin - (attach additional sheet	ation (e.g., traffic general, carrying if necessary)
Listed below a	E WHEN THE MITIGA	TION OR CONDITION	listed impacts: <i>PLEASE BE SURE NEEDS TO BE IMPLEMENTED A BUILDING PERMIT, ETC.):</i>
	ır agency has the follow	ring comments (attach ad	lditional sheets if necessary).
Response pre	epared by:		
Name		Title	Date



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CEQA INITIAL STUDY

Adapted from CEQA Guidelines APPENDIX G Environmental Checklist Form, Final Text, January 1, 2020

1. Project title: Variance Application No. PLN2022-0009 –

Frito-Lay, Inc.

2. Lead agency name and address: Stanislaus County

1010 10th Street, Suite 3400

Modesto, CA 95354

3. Contact person and phone number: Emily Basnight, Assistant Planner

209-525-6330

4. Project location: 600 Garner Road, between Yosemite

Boulevard (SR 132) and Finch Road, in the

Modesto area (APN:009-018-055)

5. Project sponsor's name and address: Daniel O'Brien, Modesto Site Director, Frito-

Lay, Inc. 600 Garner Road, Modesto, CA 95357

6. General Plan designation: Industrial

7. Zoning: Industrial (M)

8. Description of project:

This is a request for a variance to the Industrial (M) zoning district height limit. The project proposes to expand the current Frito-Lay facility by constructing a 62,000± square-foot manufacturing building, 27,000± square-foot warehouse building, silos (one to be utilized for corn storage and one for cornmeal storage), and site improvements consisting of the following: a second rail branch; new solar photovoltaic carport; 14 vehicle charging stations for employees; a publicly available compressed natural gas fueling station; and a near zero emission and zero emission on and off-road fleet upgrades to increase the production capacity and reduce the need to import packaged snack food products from other plants. The proposed expansion will also include the addition of a new snack food production line for Onion Fried Snack (OFS) production, and the addition of a cornmeal receiving, storage, and handling system. The number of employees is anticipated to increase by 206 as part of this project; increasing the number of employees to 486 during a maximum shift. The corn and cornmeal silos will be 85± feet tall; as unmanned fireproof structures the silos are considered to be permitted uses in the Indusrial (M) zoning district and are not subject to a height limit pursuant to §21.60.040(B) of the County Zoning Ordinance. The proposed 62,000± square-foot manufacturing building will be 46 feet tall. The 27,000± square-foot warehouse is proposed to be 92 feet tall with an HVAC unit at the top bringing the total height to 97 feet tall; the warehouse will be composed of one floor, and a mezzanine. County Zoning Ordinance §21.60.040(A) requires building and appurtenant structures not to exceed 75 feet in height in the Industrial (M) zoning district. The additional height of the building is needed to accommodate construction of a three-crane automated storage and pallet retrieval system for bulk materials transported by truck and rail. The automated crane system will operate from the ground level and the first floor and mezzanine of the proposed warehouse will be manned daily, with up to four employees to oversee the crane system and operate forklifts from ground levels. The proposed warehouse and expansion will be located at an existing snack manufacturing facility on a 71.35± acre parcel in the Industrial (M) zoning district within the LAFCO adopted Sphere of Influence for the City of Modesto. The site is currently served with public sewer and water facilities by the City of Modesto. The site has access to County-maintained Garner Road and Leckron Road. The expansion of the facility is a permitted use in the Industrial (M) zoning district; however, the environmental review will cover the entire expansion request for the purpose of allowing Frito-Lay, Inc. to obtain Air District permits which require CEQA review for the expansion of the manufacturing and packaging operations for the new OFS production line. The Planning Commission will consider the variance for the additional height of the proposed 97-foot-tall warehouse building, and the CEQA review for the entire project.

9. Surrounding land uses and setting:

Industrial uses in all directions; Tuolumne River to the south; SR 132 and the City of Modesto to the north; Community of Empire to the northeast; and the Modesto City-County Airport to the west.

10. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement.):

CalTrans

San Joaquin Valley Air Pollution Control District (SJVAPCD)

City of Modesto

Stanislaus County Department of Public Works Department of Environmental Resources

- Air Quality and Greenhouse Gas Analysis Report, prepared by Ramboll, dated February 9, 2022
- II. Federal Aviation Administration Aeronautical Study Nos. 2022-AWP-3479-OE – 2022-AWP-3489-OE, dated March 22, 2022

11. Attachments:

	POTENTIALLY AFFECTED: ecked below would be potentially affecte gnificant Impact" as indicated by the checl	
□Aesthetics	☐ Agriculture & Forestry Resources	☐ Air Quality
☐Biological Resources	☐ Cultural Resources	□ Energy
□Geology / Soils	☐ Greenhouse Gas Emissions	☐ Hazards & Hazardous Materials
☐ Hydrology / Water Quality	☐ Land Use / Planning	☐ Mineral Resources
☐ Noise	☐ Population / Housing	☐ Public Services
☐ Recreation	☐ Transportation	☐ Tribal Cultural Resources
☐ Utilities / Service Systems	☐ Wildfire	☐ Mandatory Findings of Significance
DETERMINATION: (To be come on the basis of this initial evaluation of the property of the prop	uation:	
	osed project COULD NOT have a signification. TION will be prepared.	cant effect on the environment, and a
not be a significant e	ne proposed project could have a significa ffect in this case because revisions in the pent. A MITIGATED NEGATIVE DECLARAT	project have been made by or agreed to
-	posed project MAY have a significant PACT REPORT is required.	effect on the environment, and an
unless mitigated" imp an earlier document measures based on t	sed project MAY have a "potentially signife pact on the environment, but at least one ef pursuant to applicable legal standards, an ne earlier analysis as described on attached but it must analyze only the effects that re	ffect 1) has been adequately analyzed in aid 2) has been addressed by mitigation disheets. An ENVIRONMENTAL IMPACT
I find that although the potentially significan	e proposed project could have a significan	

Signature on FileJuly 20, 2022Prepared by Emily BasnightDate

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, than 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 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 Section XVII, "Earlier Analyses," 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). References 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:
 - a) the significant criteria or threshold, if any, used to evaluate each question; and
 - b) the mitigation measure identified, if any, to reduce the impact to less than significant.

ISSUES

I. AESTHETICS – Except as provided in Public Resources Code Section 21099, could the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?			X	
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?			х	
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?			X	
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?			х	

The project site itself is not considered to be a scenic resource or unique scenic vista. The project site is currently improved with a 436,000± square-foot manufacturing/warehouse building, a 63,000± square-foot warehouse, traffic center, solar field, and parking lots. On May 20, 2021, The Stanislaus County Planning Commission approved a project involving addition of a 39,000± square-foot warehouse building, a 127,000 square-foot manufacturing building, a second rail spur, receiving and storage equipment and an expansion of a retention pond; the project is currently under construction and multiple building permits have been applied for through the Stanislaus County Building Permits Division. The proposed 62,000± square-foot manufacturing building, 27,000± square-foot warehouse building, corn and cornmeal silos, and site improvements consisting of the following: a second rail branch; new solar photovoltaic carport; 14 vehicle charging stations for employees; a publicly available compressed natural gas fueling station; and a near zero emission and zero emission on and off-road fleet upgrades are industrial in nature as manufacturing/warehouse uses, which are consistent with other developments in the area. The corn and cornmeal silos will be 85 feet tall; the silos are considered unmanned fireproof structures and not subject to a height limit pursuant to §21.60.040(B) of the County Zoning Ordinance. The proposed 62,000± square-foot manufacturing building will be 46 feet tall. The 27,000± square-foot warehouse is proposed to be 92 feet tall with an HVAC unit at the top bringing the total height to 97 feet tall. The site is surrounded by industrial uses in all directions and City of Modesto to the north and the City of Ceres to the south. The project site is located within the LAFCO adopted Sphere of Influence of the City of Modesto. The project was referred to the City of Modesto; the project site is designated as Industrial within the Modesto General Plan. The City of Modesto responded that the City's industrial zones do not have height limits except when located in the Airport Zone or adjacent to a residential zone. The City of Modesto indicated that the proposed total height for the warehouse is consistent with City height standards. The project site is located approximately 1.5 miles northeast of the Modesto City County Airport's primary runway. An early consultation referral response received from the Modesto Airport manager on March 14, 2022, required the project contractor to file a Notice of Proposed Construction or Alteration (FAA Form 7460-1) with the Federal Aviation Administration (FAA) to determine whether any effects on navigable airspace would be imposed by the proposed 97-foot-tall warehouse building with appurtenance. An application was submitted to the FAA and the FAA conducted an aeronautical study on the proposed warehouse building, manufacturing building and the corn and cornmeal silos. On March 22, 2022, the FAA issued their determination; the study revealed the structures do not exceed obstruction standards and would not be a hazard to air navigation provided the FAA's conditions are met requiring notification if the project is to be abandoned, dismantled, destroyed, altered or within five days after construction reaches its greatest height. Based on their evaluation, the FAA determined that marking and lighting are not necessary for aviation safety and requested conditions to be placed on the project if marking and lighting are installed in the future. More information regarding the FAA aeronautical study and Airport Land Use Commission referral can be found below under the Hazards and Hazardous Materials section of this Initial Study.

Mitigation: None.

References: Application information; Variance No. PLN2020-0079 – Frito-Lay, Inc., approved by the Planning Commission on May 20, 2021; City of Modesto referral response, dated March 1, 2022; Modesto City-County Airport referral response, received March 14, 2022; Federal Aviation Administration Aeronautical Study Nos. 2022-AWP-3479-OE – 2022-

AWP-3489-OE, dated March 22, 2022; City of Modesto Zoning Ordinance (Title 10); Stanislaus County Zoning Ordinance (Title 21); the Stanislaus County General Plan; and Support Documentation.¹

II. AGRICULTURE AND FOREST RESOURCES: In	Potentially	Less Than	Less Than	No Impact
determining whether impacts to agricultural resources are	Significant Impact	Significant With Mitigation	Significant Impact	
significant environmental effects, lead agencies may refer	Шрасс	Included	Шрасс	
to the California Agricultural Land Evaluation and Site				
Assessment Model (1997) prepared by the California				
Department of Conservation as an optional model to use in				
assessing impacts on agriculture and farmland. In				
determining whether impacts to forest resources, including				
timberland, are significant environmental effects, lead				
agencies may refer to information compiled by the				
California Department of Forestry and Fire Protection				
regarding the state's inventory of forest land, including the				
Forest and Range Assessment Project and the Forest				
Legacy Assessment project; and forest carbon				
measurement methodology provided in Forest Protocols				
adopted by the California Air Resources Board Would the				
project:				
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			X	
Program of the California Resources Agency, to non-				
agricultural use?				
b) Conflict with existing zoning for agricultural use, or a			X	
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			X	
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			х	
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			х	
Farmland, to non-agricultural use or conversion of forest			^	
land to non-forest use?				

Discussion: The 71.35± acre project site and its surrounding area is classified as "Urban and Built-Up Land" by the Farmland Mapping and Monitoring Program. Soils include Hanford Fine Sandy Loam (HbpA), moderately deep over silt, along with Hanford Sandy Loam (HdA), and Tujunga Loamy Sand (TuA). The site has been developed with the current manufacturing operation since 1990. No agricultural land surrounds the site. There are several vacant parcels to the northwest, west and south; however, all of them are zoned Industrial and are not currently in agricultural production. Any development of the surrounding vacant parcels would be subject to the permitted uses included in the Industrial Zoning Ordinance or would require additional land use entitlements and environmental review. The nearest agriculturally zoned parcel currently in agricultural production is located across Yosemite Boulevard .38 miles north of the project site. The nearest parcel in agricultural production and enrolled under a Williamson Act Contract is planted in almond trees and located .9 miles to the east of the project site. If approved, the proposed project will not convert farmland to non-agriculture uses as the project site and surrounding area is built-out with industrial and commercial uses; nor will it conflict with existing zoning or a Williamson Act Contract.

Mitigation: None.

References: Application Information; California State Department of Conservation Farmland Mapping and Monitoring Program – Stanislaus County Farmland 2012; USDA – NRCS Web Soil Survey; Stanislaus County Zoning Ordinance (Title 21): Stanislaus County General Plan and Support Documentation.¹

III. AIR QUALITY: Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?			X	
b) 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?			X	
c) Expose sensitive receptors to substantial pollutant concentrations?			x	
d) Result in other emissions (such as those odors adversely affecting a substantial number of people?			Х	

Discussion: The project site is within the San Joaquin Valley Air Basin, which has been classified as "severe non-attainment" for ozone and respirable particulate matter (PM-10) as defined by the Federal Clean Air Act. The San Joaquin Valley Air Pollution Control District (SJVAPCD) has been established by the State in an effort to control and minimize air pollution. As such, the District maintains permit authority over stationary sources of pollutants.

The expansion includes construction of a 62,000± square-foot manufacturing building, 27,000± square-foot warehouse building, silos (one to be utilized for corn storage and one for cornmeal storage), and site improvements consisting of the following: a second rail branch; new solar photovoltaic carport; 14 vehicle charging stations for employees; a publicly available compressed natural gas fueling station; and a near zero emission and zero emission on and off-road fleet upgrades to increase the production capacity and reduce the need to import packaged snack food products from other plants. The proposed expansion will also include the addition of a new snack food production line for Onion Fried Snack (OFS) production, and the addition of a cornmeal receiving, storage, and handling system. A Permit to Operate (PTO) and an Authority to Construct (ATC) permit will be required to be obtained from the SJVAPCD for the proposed facility expansion.

The primary source of air pollutants generated by this project would be classified as being generated from "mobile" sources created from increased passenger vehicle, truck, and train trips generated from the expansion. Mobile sources would generally include dust from roads, farming, and vehicle exhaust. The applicant estimates an increase of 7 outbound truck trips per day and 5 railcars per week as a result of this project. At full build-out there will be an increase of 206 employees as part of this project; increasing the number of employees to 486 during a maximum shift. The facility will have an average of 93 outbound loads, five inbound loads per day, and 33 railcars per week as a result of the project. Customers and visitors on-site per day is anticipated to increase by six for a total of 26 per day as part of the expansion. A comment was received from SJVAPCD in response to the Early Consultation prepared for the proposed project indicating that construction and operation-related emissions for the Project would have a less than significant impact on air quality and are not expected to exceed any of the District's annual emissions significance thresholds, including: 100 tons per year of carbon monoxide (CO), 10 tons per year of oxides of nitrogen (NOx), 10 tons per year of reactive organic gases (ROG), 27 tons per year of oxides of sulfur (SOx), 15 tons per year of particulate matter of 10 microns or less in size (PM10), or 15 tons per year of particulate matter of 2.5 microns or less in size (PM2.5). However, the response letter indicated that further review of the project's potential impacts to air quality should be conducted, and Project related pollutant emissions should be identified and quantified, for both existing and post-project construction and operational emissions. The letter also indicated that a Health Risk Assessment, and Ambient Air Quality Analysis, and assessment for any Hazards and Odors may also be needed to evaluate the project's health related impacts.

The comments provided by the Air District were based on the proposed expansion of the Frito-Lay facility. However, the Planning Commission will only consider the Variance request to the Industrial height standard. The proposed expansion is a permitted use under the Industrial Zoning Ordinance and requires ministerial permits to be reviewed and approved by Staff for full build-out; however, a Permit to Operate (PTO) and an Authority to Construct (ATC) permit are required by the Air District as part of the expansion and necessitate an analysis of the impacts to air quality in order to process the ATC and PTO. Accordingly, additional CEQA analysis is necessary to be conducted, specifically in terms of potential impacts to air quality and greenhouse gas emissions as a result of the proposed expansion and use of the snack food facility.

An Air Quality and Greenhouse Gas Analysis Report was prepared by Ramboll in February 2022 and received on February 9, 2022. The report included all proposed uses in calculating emissions and making significance determinations in the

analysis. The analysis utilized the California Emissions Estimator Model (CalEEMod) to calculate emission factors for grading, construction, and paving activities and for operational emissions, made up of motor vehicles (fleet and employee vehicles and trains) based on the number of trips and Vehicle Miles Traveled (VMT); area sources (architectural coatings, consumer products, landscape equipment); and natural gas for uses both requiring Air District permits (permitted uses), and uses not subject to District permits (non-permitted uses). The analysis found that emissions of ROG, CO, SO2, NOx, PM10, and PM2.5 associated with the construction and operation of the project would not exceed the District's significance thresholds. The applicant proposes to change the fleet composition replacing 12 diesel fueled trucks with 14 electric powered trucks and addition two additional natural gas fueled trucks for a total of 40 natural gas fueled trucks and 14 electric trucks in order to lower criteria pollutant emissions. The project was determined to be below the SJVAPCD GAMAQI thresholds of significance. As the SJVAPCD Air Quality Attainment Plans predict that nonattainment pollutant emissions will continue to decline each year as regulations adopted to reduce these emissions are implemented, accounting for growth projected for the region, cumulative health impacts were anticipated to decline even with the project's emission contribution. The analysis found that expected emission increases for the Project will be less than 100 pounds per day for ROG, CO, SO2, NOx, PM10, and PM2.5; therefore, an ambient air quality analysis will not be required. The closest sensitive receptor to the project site is a house located at the northwest corner of Codoni Avenue and Finch Road, approximately 2.000 feet southeast of the project site, and therefore not expected to be impacted by the Project activities. Additionally, odors are not expected to impact off-site receptors, as construction equipment and haul trucks are not expected to generate diesel exhaust odor greater than typically present at the facility and will abide by best practices for equipment used during construction, and truck idling on-site.

The Air District initially recommended a Health Risk Assessment (HRA) be performed for the project to evaluate potential health impacts associated with the addition of the new Onion Fried Snack (OFS) production line and the addition of a cornmeal receiving, storage, and handling system. However, the District provided a comment letter on July 8, 2022, determining the proposed OFS production line equipment will generate de minims levels of Toxic Air Contaminants. Therefore, the proposed project is not expected to cause any significant public health risk.

The project will be required to obtain all applicable Air District permits, including an Authority to Construct (ATC) Permit and Permit to Operate (PTO), and may be subject to the following District Rules: Regulation VIII (Fugitive PM10 Prohibitions), Rule 2201 New and Modified Stationary Review, Rule 4002 National Emission Standards for Hazardous Air Pollutants, Rule 4102 Nuisance, Rules 4601 Architectural Coatings, 4641 Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations, and 9510 Indirect Source Review. The applicant has already submitted their ATC application to the Air District. Staff will include a condition of approval on the project requiring that the applicant be in compliance with the District's rules and regulations. As the project must comply with District regulations, the project's emissions would be less than significant for all criteria pollutants, would not be inconsistent with any applicable air quality attainment plans, and would result in less than significant impacts to air quality.

Mitigation: None.

References: San Joaquin Valley Air Pollution Control District referral response, dated March 9, 2022; Air Quality and Greenhouse Gas Analysis Report, prepared by Ramboll, dated February 9, 2022; Letter from San Joaquin Valley Air Pollution Control District, received July 8, 2022; San Joaquin Valley Air Pollution Control District - Regulation VIII Fugitive Dust/PM-10 Synopsis; www.valleyair.org; Application Information; Stanislaus County Zoning Ordinance (Title 21); Stanislaus County General Plan and Support Documentation.¹

IV. BIOLOGICAL RESOURCES Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	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 Game or U.S. Fish and Wildlife Service?			x	
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			х	

Department of Fish and Game or U.S. Fish and Wildlife Service?		
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	х	
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?	х	
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	х	
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?	х	

Discussion: The project is located within the Riverbank Quad based on the California Natural Diversity Database (CNDDB). There are five animals and two insect species which are state or federally listed, threatened, or identified as species of special concern or a candidate of special concern within the Riverbank California Natural Diversity Database Quad. These species include the Swainson's hawk, vernal pool fairy shrimp, vernal pool tadpole shrimp, steelhead – Central Valley DPS, chinook salmon - Central Valley spring-run ESU, Crotch bumble bee, and valley elderberry longhorn beetle. However, the project site has been developed with industrial uses for over 20 years, making the likelihood for existence of these species on the project site very low.

The Tuolumne River is located .72 miles south of the project site. The project was referred to the Tuolumne River Trust and no response has been received to date. An Early Consultation was referred to the California Department of Fish and Wildlife, and no response has been received to date. The project will not conflict with a Habitat Conservation Plan, a Natural Community Conservation Plan, or other locally approved conservation plans. Impacts to endangered species or habitats, locally designated species, or wildlife dispersal or mitigation corridors are considered to be less than significant.

Mitigation: None.

References: Application Information; California Department of Fish and Wildlife's Natural Diversity Database Quad Species List; Stanislaus County General Plan and Support Documentation.¹

V. CULTURAL RESOURCES Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource pursuant to in § 15064.5?			X	
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?			Х	
c) Disturb any human remains, including those interred outside of formal cemeteries?			Х	

Discussion: It does not appear that this project will result in significant impacts to any archaeological or cultural resources. The project site is already developed with manufacturing and warehouse operations, and the proposed construction is within the area which has already been disturbed. However, development standards will be placed on the project, requiring that construction activities shall be halted if any cultural resources are found, until appropriate agencies are contacted, and an archaeological survey is completed.

Mitigation: None.

References: Application Information; Stanislaus County General Plan and Support Documentation.¹

VI. ENERGY Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?			X	
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?			X	

Discussion: The CEQA Guidelines Appendix F states that energy consuming equipment and processes, which will be used during construction or operation such as: energy requirements of the project by fuel type and end use, energy conservation equipment and design features, energy supplies that would serve the project, total estimated daily vehicle trips to be generated by the project, and the additional energy consumed per trip by mode, shall be taken into consideration when evaluating energy impacts. Additionally, the project's compliance with applicable state or local energy legislation, policies, and standards must be considered.

As stated above in the Air Quality section, the expansion includes construction of a 62,000± square-foot manufacturing building, a 27,000± square-foot warehouse building, silos (one to be utilized for corn storage and one for cornmeal storage), and site improvements consisting of the following: a second rail branch; new solar photovoltaic carport; 14 vehicle charging stations for employees; a publicly available compressed natural gas fueling station; and a near zero emission and zero emission on and off-road fleet upgrades to increase the production capacity and reduce the need to import packaged snack food products from other plants. The proposed expansion also includes a new snack food production line for Onion Fried Snack (OFS) production, and the addition of a cornmeal receiving, storage, and handling system. A Permit to Operate (PTO) and an Authority to Construct (ATC) permit will be required to be obtained from the SJVAPCD for the proposed expansion.

A comment was received in response to the Early Consultation referral for the Project indicating that further review of the project's potential impacts to air quality should be conducted. An Air Quality and Greenhouse Gas Analysis Report was conducted by Ramboll on February 9, 2022. The report included all proposed uses in calculating emissions and making significance determinations in the analysis. The analysis utilized the California Emissions Estimator Model (CalEEMod) to calculate emission factors for grading, construction, and paving activities and for operational emissions, made up of motor vehicles (fleet and employee vehicles and trains) based on the number of trips and Vehicle Miles Traveled (VMT); area sources (architectural coatings, consumer products, landscape equipment); and natural gas for uses both requiring Air District permits (permitted uses), and uses not subject to District permits (non-permitted uses). The analysis found that emissions of ROG, CO, SO2, NOx, PM10, and PM2.5 associated with the construction and operation of the project would not exceed the District's significance thresholds. As mentioned in the Air Quality section, the applicant proposes to change the fleet mix replacing 12 diesel fueled trucks with 14 electric powered trucks and two additional natural gas trucks for a total of 40 natural gas fueled trucks and 14 electric trucks in order to lower criteria pollutant emissions. The project was determined to be below the SJVAPCD GAMAQI thresholds of significance.

The proposed structures are subject to the mandatory planning and design, energy efficiency, water efficiency and conservation, material conservation and resources efficiency, and environmental quality measures of the California Green Building Standards (CALGreen) Code (California Code of Regulations, Title 24, Part 11).

In addition to the Authority to Construct (ATC) Permit and Permit to Operate (PTO), the project will be required to obtain other applicable Air District permits including but not limited to the following District Rules: Regulation VIII (Fugitive PM10 Prohibitions), Rule 2201 New and Modified Stationary Review, Rule 4002 National Emission Standards for Hazardous Air Pollutants, Rule 4102 Nuisance, Rules 4601 Architectural Coatings, 4641 Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations, and 9510 Indirect Source Review. The applicant has already submitted their ATC application to the Air District. Staff will include a condition of approval on the project requiring that the applicant be in compliance with the District's rules and regulations. As the project must comply with District regulations, the project would result in less than significant impacts to energy.

Mitigation: None.

References: Air Quality and Greenhouse Gas Analysis Report, prepared by Ramboll, dated February 9, 2022; San Joaquin Valley Air Pollution Control District referral response, dated March 9, 2022; San Joaquin Valley Air Pollution Control District - Regulation VIII Fugitive Dust/PM-10 Synopsis; www.valleyair.org; Application Information; Stanislaus County General Plan and Support Documentation.¹

VII. GEOLOGY AND SOILS Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:			Х	
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.			x	
ii) Strong seismic ground shaking?			Х	
iii) Seismic-related ground failure, including liquefaction?			х	
iv) Landslides?			Х	
b) Result in substantial soil erosion or the loss of topsoil?			Х	
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?			х	
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?			х	
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?			X	
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?			х	

Discussion: As mentioned earlier in the Agriculture and Forest Resources section, the USDA Natural Resources Conservation Service's Eastern Stanislaus County Soil Survey indicates that the property is made up of Hanford Fine Sandy Loam (HbpA), moderately deep over silt, along with Hanford Sandy Loam (HdA), and Tujunga Loamy Sand (TuA). As contained in Chapter 5 of the General Plan Support Documentation, the areas of the County subject to significant geologic hazard are located in the Diablo Range, west of Interstate 5; however, as per the California Building Code, all of Stanislaus County is located within a geologic hazard zone (Seismic Design Category D, E, or F) and a soils test may be required at building permit application. Results from the soils test will determine if unstable or expansive soils are present. If such soils are present, special engineering of the structure will be required to compensate for the soil deficiency.

The proposed project includes construction of a 62,000± square-foot manufacturing building and 27,000± square-foot warehouse building, silos (one to be utilized for corn storage and one for cornmeal storage), and site improvements consisting of the following: a second rail branch; new solar photovoltaic carport; 14 vehicle charging stations for employees; a publicly available compressed natural gas fueling station; and a near zero emission and zero emission on and off-road fleet upgrades to increase the production capacity and reduce the need to import packaged snack food products from other plants. The corn and cornmeal silos will be 85 feet tall; the silos are considered unmanned fireproof structures and not subject to a height limit pursuant to §21.60.040(B) of the County Zoning Ordinance. The proposed 62,000± square-foot manufacturing building will be 46 feet tall. The 27,000± square-foot warehouse is proposed to be 92 feet tall with an HVAC unit at the top bringing the total height to 97 feet tall; the warehouse will be composed of one floor, and a mezzanine. County Zoning Ordinance §21.60.040(A) requires building and appurtenant structures not to exceed 75 feet in height in the Industrial

(M) zoning district. The expansion of the facility is a permitted use in the Industrial (M) zoning district; however, the environmental review will cover the entire expansion request for the purpose of allowing Frito-Lay, Inc. to obtain Air District permits which require CEQA review for the expansion of the manufacturing and packaging operations for the new OFS production line. The Planning Commission will consider the Variance for the additional height of the proposed 97-foot-tall warehouse building, and the CEQA review for the entire project.

All proposed structures will be required to be designed and built according to building standards appropriate to withstand shaking for the area in which they are constructed. Any earth moving is subject to Public Works Standards and Specifications, which consider the potential for erosion and run-off prior to permit approval. The project site is served by the City of Modesto for public sewer services; no septic tanks are proposed as part of the project request. The project was referred to Stanislaus County Department of Public Works and no response was received; however, Public Works, and the Building Permits Division review and approve any building or grading permit to ensure their standards are met. Building permits will be required for the proposed expansion of the facility. Public Works' and the Building Permits Division's standards will be applied to the proposed facility expansion under the building permit process.

The project site is not located near an active fault or within a high earthquake zone. Landslides are not likely due to the flat terrain of the area.

Mitigation: None.

References: Application Information; USDA – NRCS Web Soil Survey; Stanislaus County Zoning Ordinance (Title 21); Stanislaus County General Plan and Support Documentation.¹

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

Discussion: The principal Greenhouse Gasses (GHGs) are carbon dioxide (CO2), methane (CH4), nitrous oxide (N2O), sulfur hexafluoride (SF6), perfluorocarbons (PFCs), hydrofluorocarbons (HFCs), and water vapor (H2O). CO2 is the reference gas for climate change because it is the predominant greenhouse gas emitted. To account for the varying warming potential of different GHGs, GHG emissions are often quantified and reported as CO2 equivalents (CO2e). In 2006, California passed the California Global Warming Solutions Act of 2006 (Assembly Bill [AB] No. 32), which requires the California Air Resources Board (ARB) design and implement emission limits, regulations, and other measures, such that feasible and cost-effective statewide GHG emissions are reduced to 1990 levels by 2020. Two additional bills, SB 350 and SB32, were passed in 2015 further amending the states Renewables Portfolio Standard (RPS) for electrical generation and amending the reduction targets to 40% of 1990 levels by 2030.

The expansion includes construction of a 62,000± square-foot manufacturing building, a 27,000± square-foot warehouse building, silos (one to be utilized for corn storage and one for cornmeal storage), and site improvements consisting of the following: a second rail branch; new solar photovoltaic carport; 14 vehicle charging stations for employees; a publicly available compressed natural gas fueling station; and a near zero emission and zero emission on and off-road fleet upgrades to increase the production capacity and reduce the need to import packaged snack food products from other plants. The proposed expansion also includes a new Onion Fried Snack (OFS) process line and a cornmeal receiving, storage, and handling system. A Permit to Operate (PTO) and an Authority to Construct (ATC) Permit will be required to be obtained from the SJVAPCD for the proposed expansion. The applicant estimates an increase of 7 outbound truck trips per day and 5 railcars per week as a result of this project. At full build-out there will be approximately 206 additional employees; for a total of 486 employees during a maximum shift. The facility will have an average of 93 outbound loads, five inbound loads per day and 33 railcars per week as a result of the project. Customers and visitors on-site per day is anticipated to increase by six for a total of 26 per day as part of the expansion. As mentioned above in the Air Quality section, the applicant proposes to change the fleet composition replacing 12 diesel fueled trucks with 14 electric powered trucks and adding two

additional natural gas fueled trucks for a total of 40 natural gas fueled trucks and 14 electric trucks in order to lower criteria pollutant emissions.

A comment was received in response to the Early Consultation referral for the Project indicating that further review of the project's potential impacts to air quality should be conducted. An Air Quality and Greenhouse Gas Analysis Report was conducted by Ramboll on February 9, 2022. The report included all proposed uses in calculating emissions and making significance determinations in the analysis. The analysis utilized the California Emissions Estimator Model (CalEEMod), Emission Factor Model (EMFAC), and EPA Guidance methodology wherever possible to calculate emission factors made up of area sources (architectural coatings, consumer products, landscape equipment), electricity, motor vehicles (fleet and employee vehicles and trains) based on the number of trips and Vehicle Miles Traveled (VMT), natural gas, water, and solid waste disposal for uses both requiring Air District permits (permitted uses), and uses not subject to District permits (nonpermitted uses). The analysis found that emissions of CO2, CH4, N2O, CO2e associated with the construction and operation of the project would increase as a result of the project, with the change in the vehicle fleet contributing to the increase in GHG emissions; however, existing regulatory requirements applicable to the project would limit GHG emissions to less than significant levels by federal, state and local standards. The Frito-Lay facility is enrolled in the California Air Resources Board's (CARB's) Cap-and-Trade program; GHG emissions from expansion would be limited under CARB's Cap-and-Trade program, which limits the amount of GHGs for the facility in accordance with AB 32. Additionally, Best Performance Standards (BPS) for the Onion Fried Snack chip processing line are proposed and all SJVAPCD regulations surrounding technology and heavy-duty vehicle fleets will apply to the project. As the project must comply with federal, state and local Air District regulations, the project's emissions would be less than significant for all GHGs. The analysis determined the expansion to be below the SJVAPCD GAMAQI thresholds of significance based on regulatory compliance.

The project will be required to obtain all applicable Air District permits, including an Authority to Construct (ATC) Permit and Permit to Operate (PTO), and may be subject to the following District Rules: Rule 9510, Regulation VIII, Rule 4102, Rule 4601, Rule 4641, Rule 2201, and Rule 4002. The proposed building will also be subject to the mandatory planning and design, energy efficiency, water efficiency and conservation, material conservation and resources efficiency, and environmental quality measures of the California Green Building Standards (CALGreen) Code (California Code of Regulations, Title 24, Part 11). Staff will include development standards on the project requiring that the applicant comply with Title 24, obtain building permits, and be in compliance with the Air District's rules and regulations. Impacts to Greenhouse Gas Emissions are considered to be less than significant.

Mitigation: None.

References: Air Quality and Greenhouse Gas Analysis Report, prepared by Ramboll, dated February 9, 2022; California Green Building Code Title 24, Part 11, 2019; San Joaquin Valley Air Pollution Control District referral response, March 9, 2022; Application Information; Stanislaus County General Plan and Support Documentation.¹

IX. HAZARDS AND HAZARDOUS MATERIALS Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	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?			Х	
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?			x	
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?			x	
d) Be located on a site which 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?			x	

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 or excessive noise for people residing or working in the project area?	х	
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	x	
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	х	

The project does not interfere with the Stanislaus County Local Hazard Mitigation Plan, which identifies risks posed by disasters and identifies ways to minimize damage from those disasters. The site is located in a Local Responsibility Area (LRA) for fire protection and is served by Stanislaus Consolidated Fire Protection District. The project was referred to the DER Hazardous Materials (Haz Mat) Division. The DER Haz Mat Division responded that the project will not have a significant effect on the environment and that the applicant should contact DER regarding appropriate permitting requirements for hazardous materials and/or wastes; and that the Applicant and/or occupants handling hazardous materials or generating hazardous wastes must submit hazardous materials Business information into the California Electronic Reporting System (CERS) by handlers of materials for the storage of 55 gallons, 500 pounds of a hazardous material, or of 200 cubic feet of compressed gas or more. The Haz Mat Division shall be notified regarding the handling of acutely hazardous materials which may require the preparation of a Risk Management Prevention Program which must be implemented prior to operation of the facility. Additionally, Generators of hazardous waste must notify the Department relative to the quantity of waste generated, plans for reducing wastes generated, and proposed waste disposal practices. Generators of hazardous waste must also use the CERS data base to submit chemical and facility information to the DER. Generators of hazardous waste must apply for and maintain an active state or federal EPA ID number from the Department of Toxic Substances Control (DTSC). The project proposes to develop a natural gas fueling station; DER Haz Mat clarified that if the site has a new address, then the facility will be required to register that address and the hazardous materials that are held in that location. The project was also referred to the Stanislaus Consolidated Fire Protection District; however, no response was received. The project will include conditions of approval requiring that all DER Haz Mat and fire district standards are met and that any required permits be obtained. The project site is not listed on the California Department of Toxic Substance Control's EnviroStor database as a hazardous waste facility.

The project site is located approximately 1.5 miles northeast of the Modesto City-County Airport's primary runway. An Early Consultation referral response received from the Modesto Airport manager on March 14, 2022, required the project contractor to file a Notice of Proposed Construction or Alteration (FAA Form 7460-1) with the Federal Aviation Administration (FAA) to determine whether any effects on navigable airspace would be imposed by the proposed 97-foot-tall warehouse building with appurtenance. An application was submitted to the FAA and the FAA conducted an aeronautical study on the proposed warehouse building, manufacturing building and the corn and cornmeal silos. On March 22, 2022, the FAA issued their determination; the study revealed the structures do not exceed obstruction standards and would not be a hazard to air navigation provided the following conditions are met: it is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or within five days after the construction reaches its greatest height. Furthermore, based on this evaluation, the FAA determined that marking and lighting are not necessary for aviation safety; however, if marking/lighting are accomplished on a voluntary basis, the FAA recommend it be installed in accordance to their standards and specifications as noted in their referral letter. Should any future construction or alteration, including increase to heights, power, or the addition of other transmitters, occur, the FAA will require a separate notice to be submitted. If construction or alteration is dismantled or destroyed, the FAA requires the applicant submit notice to the FAA within five days after the construction or alteration is dismantled or destroyed. The FAA's determination did not include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the proposed structures. However, the FAA specified that equipment used shall not exceed the overall heights as indicated within the study. Use of equipment which has a height greater than the studied structures will require separate notices to the FAA. This will be reflected within the conditions of approval applied to the project.

A referral response was received from the Airport Land Use Commission (ALUC) who confirmed the project site is not located within any Noise Zone of the Modesto City-County Airport and as such no noise level restrictions apply. A portion of the southwest corner of the project site is located within Safety Zone 6 of the Modesto City-County Airport; however, with the exception of hazardous material production, Safety Zone 6 finds industrial uses, such as the proposed use of the warehouse, manufacturing building, and silos to be compatible with Airport operations. The remainder of the property is

not located within any Safety Zone and is therefore not subject to Safety compatibility criteria. The ALUC confirmed the project site is within the Federal Aviation Administration (FAA) Height Notification Surface Area for the Modesto City-County Airport. Accordingly, as mentioned in the paragraph above, the FAA was notified of the proposed project, and an aeronautical study performed which determined the proposed height of the buildings would not have an effect on navigable airspace.

No significant impacts associated with hazards or hazardous materials are anticipated to occur as a result of the proposed project. No significant impacts associated with safety hazards or excessive noise for people residing or working in the project area are anticipated as a result of the project.

The project site is not within the vicinity of any wildlands.

Mitigation: None.

References: Application Information; Department of Environmental Resources (DER) Hazardous Materials (Haz Mat) Division referral response, received February 22, 2022; Email from Department of Environmental Resources (DER) Hazardous Materials (Haz Mat) Division, received February 22, 2022; Modesto City-County Airport referral response, received March 14, 2022; Airport Land Use Commission referral response, dated April 18, 2022; Federal Aviation Administration Aeronautical Study Nos. 2022-AWP-3479-OE – 2022-AWP-3489-OE, dated March 22, 2022; Stanislaus County Zoning Ordinance (Title 21); Stanislaus County General Plan and Support Documentation.¹

X. HYDROLOGY AND WATER QUALITY Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?			Х	
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?			Х	
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:			x	
(i) result in substantial erosion or siltation on – or off-site;			Х	
(ii) substantially increase the rate of amount of surface runoff in a manner which would result in flooding on- or off-site;			х	
(iii) 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; or			X	
(iv) impede or redirect flood flows?			X	
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?			X	
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?			х	

Discussion: The project site is served by the City of Modesto for public water and sewer services. The project site is located within the San Joaquin Valley – Modesto groundwater sub-basin which is managed by the Stanislaus and Tuolumne Rivers Groundwater Basin Association Groundwater Sustainability Agency (STRGBA GSA). The Modesto basin isn't considered to be critically over drafted, but since most of the cities within the basin rely solely on groundwater, it is considered a high-priority basin. Due to that designation, the Sustainable Groundwater Management Act (SGMA) requires

that the STRGBA GSA adopt and begin implementation of a Groundwater Sustainability Plan (GSP) by January 31, 2022. The City of Modesto is required to maintain consistency with any applicable GSP. Additionally, the City of Modesto and Modesto Irrigation District jointly adopted the Joint 2010 Urban Water Management Plan, which addresses groundwater sustainability.

Areas subject to flooding have been identified in accordance with the Federal Emergency Management Act (FEMA). The project site is located in FEMA Flood Zone X, which includes areas determined to be outside the 0.2% annual chance floodplains. All flood zone requirements will be addressed by the Building Permits Division during the building permit process. Storm water is proposed to be contained on-site with a storm drain retention basin. The project was referred to Stanislaus County Department of Public Works, and no response was received for the project; however, Public Works, and the Building Permits Division review and approve any building or grading permit to ensure their standards are met. Building permits will be required for the proposed expansion of the facility. Public Works' and the Building Permits Division's standards will be applied to the proposed facility expansion under the building permit process.

Mitigation: None.

References: Application Information; Stanislaus County Zoning Ordinance (Title 21); Stanislaus County General Plan and Support Documentation.¹

XI. LAND USE AND PLANNING Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Physically divide an established community?			Χ	
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?			х	

The project site is designated Industrial by the Stanislaus County General Plan land use diagrams and Discussion: zoned Industrial (M). The applicant is requesting a Variance to the Industrial (M) zoning district height limit, Section 21.60.040(B) requiring building and appurtenant structures to be 75 feet or less, for a proposed 27,000± square-foot warehouse building. The project site is currently improved with a 436,000± square-foot manufacturing/warehouse building, a 63,000± square-foot warehouse, traffic center, solar field, and parking lots. On May 20, 2021, The Stanislaus County Planning Commission approved a project involving addition of a 39,000± square-foot warehouse building, a 127,000 squarefoot manufacturing building, a second rail spur, receiving and storage equipment and an expansion of a retention pond; the project is currently under construction and multiple building permits have been applied for through the Stanislaus County Building Permits Division. The previous project also included the addition of two new snack food production lines for the Dorito Tortilla Chip (DTC) and Fried Cheese Puff (FCP) production. The current proposed expansion will also include the addition of a new snack food production line for Onion Fried Snack (OFS) production. The number of employees is anticipated to increase by 206 as part of this project; increasing the number of employees to 486 during a maximum shift. The corn and cornmeal silos will be 85 feet tall; as unmanned fireproof structures the silos are considered to be permitted uses in the Industrial (M) zoning district and are not subject to a height limit pursuant to §21.60.040(B) of the County Zoning Ordinance. The proposed 62,000± square-foot manufacturing building will be 46 feet tall. The 27,000± square-foot warehouse is proposed to be 92 feet tall with an HVAC unit at the top bringing the total height to 97 feet tall; the warehouse will be composed of one floor, and a mezzanine. County Zoning Ordinance §21.60.040(A) requires building and appurtenant structures not to exceed 75 feet in height in the Industrial (M) zoning district.

The site is currently served with public sewer and water facilities by the City of Modesto. The site has access to County-maintained Garner Road and Leckron Road. The site is surrounded by industrial uses in all directions; Tuolumne River to the south; State Route 132 and the City of Modesto to the north; Community of Empire to the northeast; and the Modesto City-County Airport to the west. The project site is located within the LAFCO adopted Sphere of Influence of the City of Modesto. For projects located within a Local Agency Formation Commission (LAFCO) adopted Sphere of Influence (SOI), the County's General Plan SOI policy states that development, other than agricultural uses and churches, which requires discretionary approval from incorporated cities, shall be referred to the that city for preliminary approval. The project site is designated as Industrial within the Modesto General Plan. The project was referred to the City of Modesto who responded that the City's industrial zones do not have height limits except when located in the Airport Zone or adjacent to a residential zone. City of Modesto indicated that the proposed total height for the warehouse is consistent with City height standards.

The project site is located within 1.5 miles northeast of the Modesto City-County Airport's primary runway. As discussed above in the Hazards and Hazardous Materials Section, an Early Consultation referral response received from the Modesto Airport manager on March 14, 2022 required the project contractor to file a Notice of Proposed Construction or Alteration (FAA Form 7460-1) with the Federal Aviation Administration (FAA) to determine whether any effects on navigable airspace would be imposed by the proposed 97-foot-tall warehouse building with appurtenance. An application was submitted to the FAA and the FAA conducted an aeronautical study on the proposed warehouse building, manufacturing building and the corn and cornmeal silos. On March 22, 2022, the FAA issued their determination; the study revealed the structures do not exceed obstruction standards and would not be a hazard to air navigation provided the conditions provided in the referral letter are met. The Hazards and Hazardous Materials Section can be reviewed for a full list of the conditions requested by the FAA for the project. The FAA's comments will be reflected in the conditions of approval applied to the project.

A referral response was received from the Airport Land Use Commission (ALUC) who confirmed the project site is not located within any Noise Zone of the Modesto City-County Airport and as such no noise level restrictions apply. A portion of the southwest corner of the project site is located within Safety Zone 6 of the Modesto City-County Airport; however, with the exception of hazardous material production, Safety Zone 6 finds industrial uses, such as the proposed use of the warehouse, manufacturing building, and silos to be compatible with Airport operations. The remainder of the property is not located within any Safety Zone and is therefore not subject to Safety compatibility criteria. The ALUC confirmed the project site is within the Federal Aviation Administration (FAA) Height Notification Surface Area for the Modesto City-County Airport. Accordingly, as mentioned in the paragraph above, the FAA was notified of the proposed project, and an aeronautical study performed which determined the proposed height of the buildings would not have an effect on navigable airspace.

The project will not physically divide an established community nor conflict with any habitat conservation plans. No impacts to Land Use and Planning are anticipated to occur as a result of this project.

Mitigation: None.

References: Application Information; City of Modesto referral response, received March 1, 2022; San Joaquin Valley Air Pollution Control District referral response, dated March 9, 2022; Modesto City-County Airport referral response, dated March 14, 2022; Airport Land Use Commission referral response, dated April 18, 2022; Federal Aviation Administration Aeronautical Study Nos. 2022-AWP-3479-OE – 2022-AWP-3489-OE, dated March 22, 2022; Stanislaus County Zoning Ordinance (Title 21); Stanislaus County General Plan and Support Documentation.¹

XII. MINERAL RESOURCES Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	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?			х	
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?			x	

Discussion: The location of all commercially viable mineral resources in Stanislaus County has been mapped by the State Division of Mines and Geology in Special Report 173. There are no known significant resources on the site, nor is the project site located in a geological area known to produce resources.

Mitigation: None.

References: Stanislaus County General Plan and Support Documentation.¹

XIII. NOISE Would the project result in:	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact

a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	х	
b) Generation of excessive groundborne vibration or groundborne noise levels?	x	
c) For a project located within the vicinity of a private airstrip or 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?	х	

Discussion: The area's ambient noise level will temporarily increase during any grading/construction. As such, the project will be conditioned to abide by County regulations related to hours and days of construction. The project is located in an industrial area which has an exterior noise exposure limit of 70 Ldn or CNEL, dBA. Additionally, a part of the Modesto and Empire Traction rail spur is located on the northeastern portion of the project site, and Yosemite Boulevard is located .33 miles to the north of the project site which adds to the ambient noise levels at the project site.

As mentioned in the Land Use and Planning Section above, the project site is located within 1.5 miles northeast of the Modesto City-County Airport's primary runway. A portion of the southwest corner of the project site is located within Safety Zone 6 of the Modesto City-County Airport; however, with the exception of hazardous material production, Safety Zone 6 finds industrial uses, such as the proposed use of the warehouse and manufacturing building, to be compatible with Airport operations. A referral response was received from the Airport Land Use Commission (ALUC) who confirmed the project site is not located within any Noise Zone of the Modesto City-County Airport and as such no noise level restrictions apply.

Mitigation: None.

References: Application Information; Modesto City-County Airport referral response, dated March 14, 2022; Airport Land Use Commission referral response, dated April 18, 2022; Stanislaus County General Plan and Support Documentation.¹

XIV. POPULATION AND HOUSING Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Induce substantial unplanned 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)?			x	
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?			x	

Discussion: The site is not included in the vacant sites inventory for the 2016 Stanislaus County Housing Element, which covers the 5th cycle Regional Housing Needs Allocation (RHNA) for the county and will therefore not impact the County's ability to meet their RHNA. No population growth will be induced nor will any existing housing be displaced as a result of this project.

Mitigation: None.

References: Stanislaus County General Plan and Support Documentation.¹

XV. PUBLIC SERVICES	Potentially Significant Impact	Less Than Significant With Mitigation	Less Than Significant Impact	No Impact
		Included		

a) Would the project result in the 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:	х	
Fire protection?	X	
Police protection?	X	
Schools?	Х	
Parks?	Х	
Other public facilities?	Х	

Discussion: The County has adopted Public Facilities Fees, as well as a Fire Facility Fee on behalf of the appropriate fire district, to address impacts to public services. All adopted public facility fees will be required to be paid at the time of building permit issuance. This project was circulated to all applicable school, fire, police, irrigation, and public works departments and districts during the early consultation referral period and no concerns were identified with regard to public services.

The project site is served public water and sewer by the City of Modesto. An Early Consultation referral was sent to the City of Modesto and a response with no objections to the proposed project was received; no comments were received from the City of Modesto related to public services.

The project was referred to the Modesto Irrigation District. MID provided a referral response replying that MID Water Operations takes no objections to the proposed zoning variance; however, any impacts to existing MID Water Operations infrastructure (Lateral No. 1) shall be coordinated with staff in conjunction with the existing drive aisle and rail spur crossing for the project. Electricity will be provided to the project by the Modesto Irrigation District (MID). MID indicated that the existing electrical service may not be adequate for the proposed development and requested that prior to construction a full set of construction plans be submitted to the District. MID also listed the following requirements in their response letter: that the contractor verify actual depth and location of all underground utilities prior to start of construction and notify the appropriate agencies prior to any earth moving activities for any applicable rules or regulations; that the applicant/property owner comply with all standards and notifications regarding the protection, relocation or removal of any MID facilities; that workers and equipment should always maintain a distance no less than 10 feet from overhead facilities; and that a minimum clearance of 12 feet is to be maintained from the overhead primary conductor to any walkable surface of the building and a minimum of 8 feet from any non-walkable surface. Moreover, a minimum horizontal clearance of 6 feet between the conductor and any part of the building upon which men may work is to be maintained.

The comments provided by MID address the proposed expansion of the snack food manufacturing facility, and not specifically the variance request. Conditions of approval for this project only address the variance request to allow for additional height for the construction of the warehouse building. The balance of the requested development is considered a permitted use in the Industrial (M) zoning district and will be subject to the M zoning district standards for development.

Mitigation: None.

References: Application Information; Modesto Irrigation District response, dated February 28, 2022; City of Modesto response, dated March 1, 2022; Stanislaus County Zoning Ordinance (Title 21); Stanislaus County General Plan and Support Documentation.¹

XVI. RECREATION	Potentially Significant Impact	Less Than Significant With Mitigation Included	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?			x	

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	х	
environment?		

Discussion: This project will not increase demands for recreational facilities, as such impacts typically are associated with residential development.

Mitigation: None.

References: Stanislaus County General Plan and Support Documentation.¹

XVII. TRANSPORTATION Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?			x	
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?			х	
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?			х	
d) Result in inadequate emergency access?			Х	

Discussion: This is a request for a Variance to the Industrial (M) zoning district height limit. The project proposes to expand the current Frito-Lay facility by constructing a 62,000± square-foot manufacturing building, a 27,000± square-foot warehouse building, silos (one to be utilized for corn storage and one for cornmeal storage), and site improvements consisting of the following: a second rail branch; new solar photovoltaic carport; 14 vehicle charging stations for employees; a publicly available compressed natural gas fueling station; and a near zero emission and zero emission on and off-road fleet upgrades to increase the production capacity and reduce the need to import packaged snack food products from other plants. The proposed expansion will also include the addition of a new snack food production line for Onion Fried Snack (OFS) production, and the addition of a cornmeal receiving, storage, and handling system. The site has access to Countymaintained Garner Road and Leckron Road. The project will be required to meet the California Fire Code's requirements for emergency access; which will be reviewed for compliance though the Building Permit process.

Leckron Road is classified as an 80-foot Major Collector (MJC) road. The project was referred to the Public Works Department; however, no response has been received to date.

This project was referred California Department of Transportation (Caltrans) and no response has been received to date. An early consultation referral was sent to the City of Modesto and a response with no objections to the proposed project was received; no comments were received from the City of Modesto related to traffic and transportation impacts.

Section 15064.3 of the CEQA Guidelines establishes specific considerations for evaluating a project's transportation impacts. The CEQA Guidelines identify vehicle miles traveled (VMT), which is the amount and distance of automobile travel attributable to a project, as the most appropriate measure of transportation impacts. A technical advisory on evaluating transportation impacts in CEQA published by the Governor's Office of Planning and Research (OPR) in December of 2018 clarified the definition of automobiles as referring to on-road passenger vehicles, specifically cars and light trucks. While heavy trucks are not considered in the definition of automobiles for which VMT is calculated for, heavy-duty truck VMT could be included for modeling convenience. According to the same technical advisory from OPR, projects that generate or attract fewer than 110 trips per day generally may be assumed to cause a less-than significant transportation impact and can be used as a screening threshold of VMT to indicate when detailed analysis is needed. The applicant anticipates an increase of 7 outbound truck trips per day and 5 railcars per week as a result of this project. At full build-out there will be approximately 206 additional employees, or an additional 412 one-way passenger vehicle trips. The facility will have an average of 93 outbound truck trips, 5 inbound truck trips per day and 33 railcars per week as a result of the project; and an increase of 6

customers and visitors on-site per day for a total of 26 customers and visitors on-site per day is anticipated as part of the expansion.

An Air Quality and Greenhouse Gas Analysis Report was conducted by Ramboll on February 9, 2022. The report included all proposed uses in calculating emissions and making significance determinations in the analysis. The analysis utilized the California Emissions Estimator Model (CalEEMod) to calculate emission factors for grading, construction, and paving activities and for operational emissions, which included an analysis of the air and greenhouse gas impacts associated with Vehicle Miles Traveled (VMT) from fleet and employee vehicles and trains based on the number of trips. The analysis found the proposed project to be below the District's thresholds of significance. Additionally, the proposed project is located within an already developed industrial area, will be reducing truck trips with the addition of rail, and will be providing additional local jobs which have the potential to reduce employee generated vehicle trips going out of the area. Accordingly, the project's impacts to VMT are considered to be less than significant.

As discussed above in the Hazards and Hazardous Materials Section, the project site is located within 1.5 miles NE of the Modesto City-County Airport's primary runway. A referral response was received from the Airport Land Use Commission. (ALUC) who confirmed the project site is not located within any Noise Zone of the Modesto City-County Airport and as such no noise level restrictions apply. A portion of the southwest corner of the project site is located within Safety Zone 6 of the Modesto City-County Airport; however, Safety Zone 6 finds industrial uses, such as the proposed use of the warehouse, manufacturing building, and silos to be compatible with Airport operations. The remainder of the property is not located within any Safety Zone and is therefore not subject to Safety compatibility criteria. The ALUC confirmed the project site is within the Federal Aviation Administration (FAA) Height Notification Surface Area for the Modesto City-County Airport. An Early Consultation referral response received from the Modesto Airport manager on March 14, 2022, required the project contractor to file a Notice of Proposed Construction or Alteration (FAA Form 7460-1) with the Federal Aviation Administration (FAA) to determine whether any effects on navigable airspace would be imposed by the proposed 97-foot-tall warehouse building with appurtenance. Accordingly, the FAA was notified of the proposed project, and an aeronautical study performed which determined the proposed height of the building would not have an effect on navigable airspace. The FAA requested conditions be placed on the project requiring notification if the project is to be abandoned, dismantled, destroyed, altered or within five days after construction reaches its greatest height; and that any marking/lighting accomplished on a voluntary basis be required to be installed in accordance to FAA standards and specifications. The FAA's determination did not include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the proposed structures. However, the FAA specified that equipment used shall not exceed the overall heights as indicated within the study. Use of equipment which has a height greater than the studied structures will require separate notices to the FAA. This will be reflected within the conditions of approval applied to the project.

No significant effects are anticipated for air traffic patterns, increases in hazards or conflicting adopted policies.

Mitigation: None.

References: City of Modesto referral response, received March 1, 2022; San Joaquin Valley Air Pollution Control District referral response, dated March 9, 2022; Modesto City-County Airport referral response, received March 14, 2022; Federal Aviation Administration Aeronautical Study Nos. 2022-AWP-3479-OE – 2022-AWP-3489-OE, dated March 22, 2022; Airport Land Use Commission referral response, dated April 18, 2022; Stanislaus County General Plan and Support Documentation¹.

XVIII. TRIBAL CULTURAL RESOURCES Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	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:			X	
i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical			x	

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 for the in subdivision (c) of Public Resource 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.	х	

Discussion: It does not appear that this project will result in significant impacts to any archaeological or cultural resources. The project site is currently improved with a 436,000± square-foot manufacturing/warehouse building, a 63,000± square-foot warehouse, traffic center, solar field, and parking lots. Additionally, on May 20, 2021, The Stanislaus County Planning Commission approved a project involving addition of a 39,000± square-foot warehouse building, a 127,000 square-foot manufacturing building, a second rail spur, receiving and storage equipment and an expansion of a retention pond; the project is currently under construction and multiple building permits have been applied for through the Stanislaus County Building Permits Division. In accordance with SB 18 and AB 52, this project was not referred to the tribes listed with the Native American Heritage Commission (NAHC) as the project is not a General Plan Amendment and no tribes have requested consultation or project referral noticing. A development standard regarding the discovery of cultural resources during the construction process will be added to the project.

Mitigation: None.

References: Application Information; Stanislaus County General Plan and Support Documentation.¹

XIX. UTILITIES AND SERVICE SYSTEMS Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?			X	
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?			X	
c) 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?			X	
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?			X	
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?			X	

Discussion: The project was referred to the Modesto Irrigation District. MID provided a referral response replying that MID Water Operations takes no objections to the proposed zoning variance; however, any impacts to existing MID Water Operations infrastructure (Lateral No. 1) shall be coordinated with staff in conjunction with the existing drive aisle and rail spur crossing for the project. Electricity will be provided to the project by the Modesto Irrigation District (MID). MID indicated that the existing electrical service may not be adequate for the proposed development and requested that prior to construction a full set of construction plans be submitted to the District. MID also listed the following requirements in their response letter: that the contractor verify actual depth and location of all underground utilities prior to start of construction

and notify the appropriate agencies prior to any earth moving activities for any applicable rules or regulations; that the applicant/property owner comply with all standards and notifications regarding the protection, relocation or removal of any MID facilities; that workers and equipment should always maintain a distance no less than 10 feet from overhead facilities; and that a minimum clearance of 12 feet is to be maintained from the overhead primary conductor to any walkable surface of the building and a minimum of 8 feet from any non-walkable surface. Moreover, a minimum horizontal clearance of 6 feet between the conductor and any part of the building upon which men may work is to be maintained. The comments provided by MID address the proposed expansion of the snack food manufacturing facility, and not specifically the variance request. Conditions of approval for this project only address the variance request to allow for additional height for the construction of the warehouse building. The balance of the requested development is considered a permitted use in the Industrial (M) zoning district and will be subject to the M zoning district standards for development.

The project site is served public water and sewer by the City of Modesto. An Early Consultation referral was sent to the City of Modesto and a response with no objections to the proposed project was received; no comments were received from the City of Modesto related to utilities.

Storm water is proposed to be contained on-site with a storm drain retention basin. The project was referred to Stanislaus County Department of Public Works, and no response was received for the project; however, Public Works reviews and approves any building and grading permit to ensure their standards are met. Building permits will be required for the proposed expansion of the facility. Public Works' standards will be applied to the proposed facility expansion under the building permit process.

With these requirements incorporated into the project as conditions of approval, no impacts to utilities and service systems are anticipated.

Mitigation: None.

References: Application Information; Modesto Irrigation District referral response, received on February 28, 2022; City of Modesto referral response, received on March 1, 2022; Stanislaus County Zoning Ordinance (Title 21); Stanislaus County General Plan and Support Documentation.¹

XX. WILDFIRE – If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?			X	
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?			X	
c) Require the installation of maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?			x	
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?			X	

Discussion: The Stanislaus County Local Hazard Mitigation Plan identifies risks posed by disasters and identifies ways to minimize damage from those disasters. The terrain of the site is relatively flat, and the site has access t to County-maintained road. The site is located in a Local Responsibility Area (LRA) for fire protection and is served by Stanislaus Consolidated Fire Protection District. The project was referred to the District, and no comments have been received to date. California Building and Fire Code establishes minimum standards for the protection of life and property by increasing the ability of a building to resist intrusion of flame and burning embers. Building permits required as a result of the proposed project will be reviewed the County's Building Permits Division and Fire Prevention Bureau to ensure all State of California Building and Fire Code requirements are met prior to construction. Wildfire risk and risks associated with postfire land changes are considered to be less than significant.

Mitigation: None.

References: Application Information; Stanislaus County Zoning Ordinance (Title 21); Stanislaus County General Plan and Support Documentation.¹

XXI. MANDATORY FINDINGS OF SIGNIFICANCE	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Does the project have the potential to substantially 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, substantially 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?			X	
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.)			x	
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?			x	

Discussion: Review of this project has not indicated any features which might significantly impact the environmental quality of the site and/or the surrounding area. The surrounding area is built-out with industrial and commercial uses. There are several vacant parcels to the northwest, west and south; however, all of them are zoned Industrial and are not currently in agricultural production. Any development of the vacant parcels would be subject to the permitted uses included in the Industrial Zoning Ordinance or would require additional land use entitlements and environmental review.

Review of this project has not indicated any features which might significantly impact the environmental quality of the site and/or the surrounding area.

Mitigation: None.

References: Initial Study; Stanislaus County Zoning Ordnance (Title 21); Stanislaus County General Plan and Support Documentation.¹

¹Stanislaus County General Plan and Support Documentation adopted in August 23, 2016, as amended. *Housing Element* adopted on April 5, 2016.

VAR PLN2022-0009

AREA MAP

LEGEND

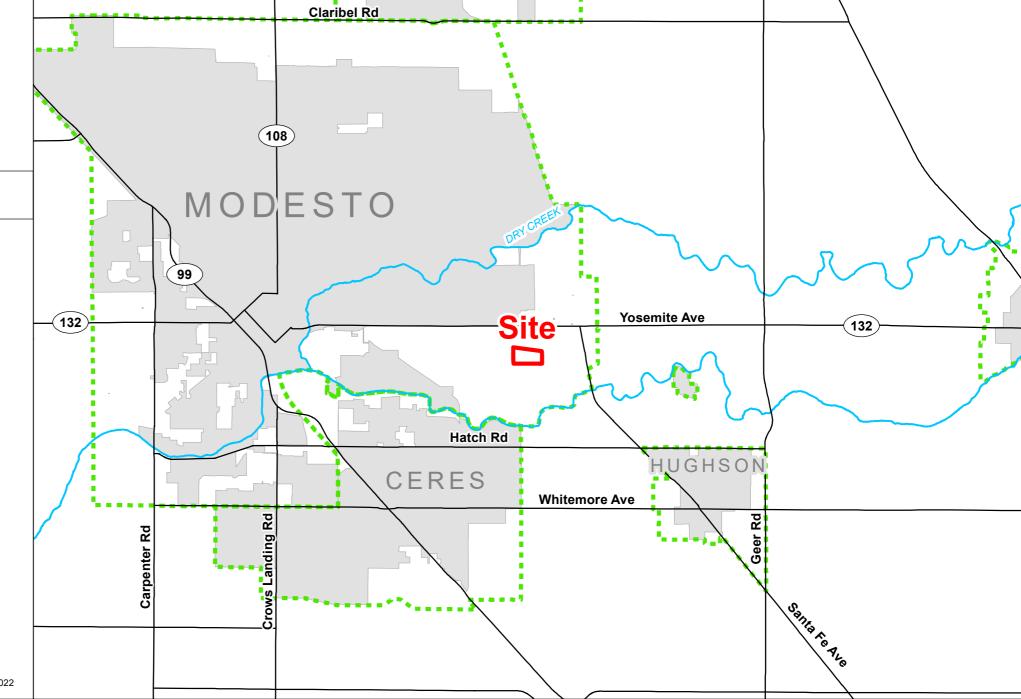
Project Site

Sphere of Influence

City

—— Road

---- River



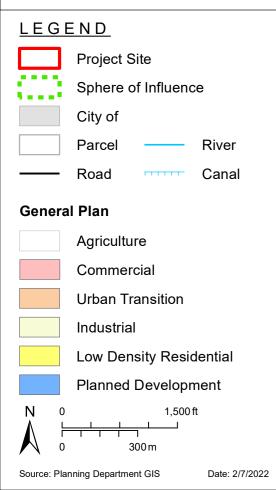
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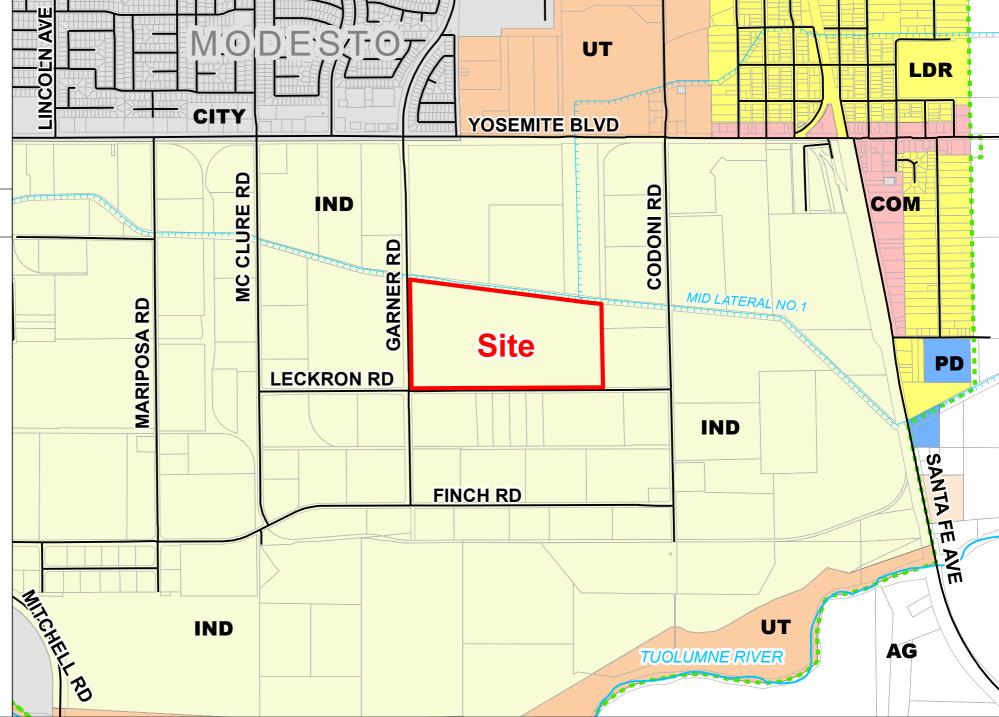
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Date: 2/7/2022

VAR PLN2022-0009

GENERAL PLAN MAP

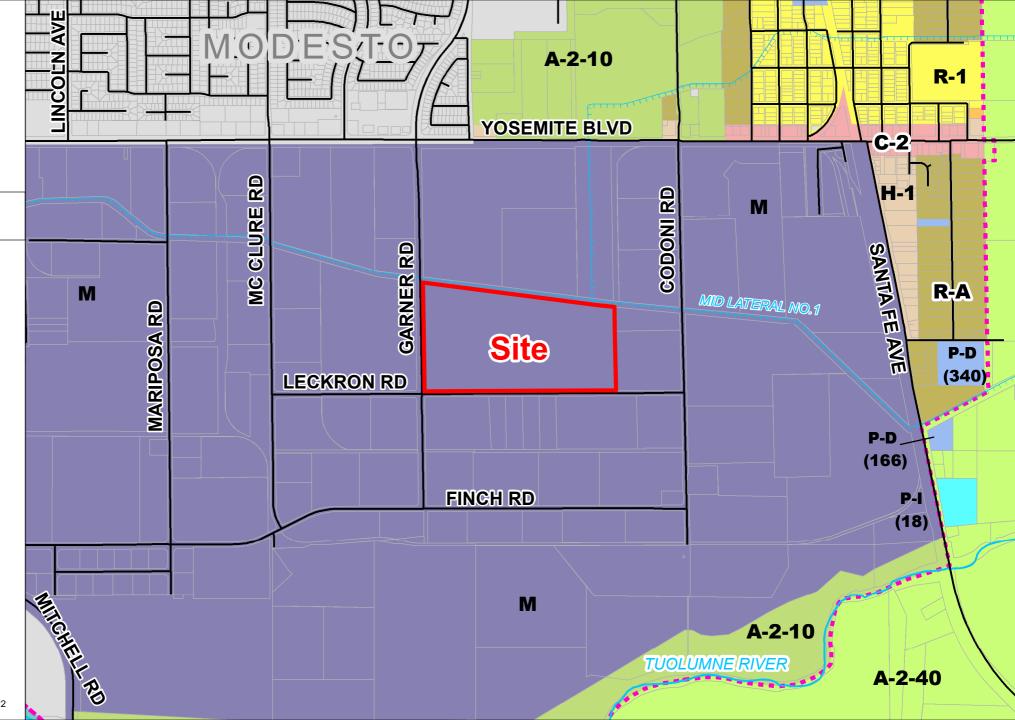




VAR PLN2022-0009

ZONING MAP





VAR PLN2022-0009

2021 AERIAL AREA MAP

LEGEND

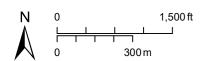
Project Site

Sphere of Influence

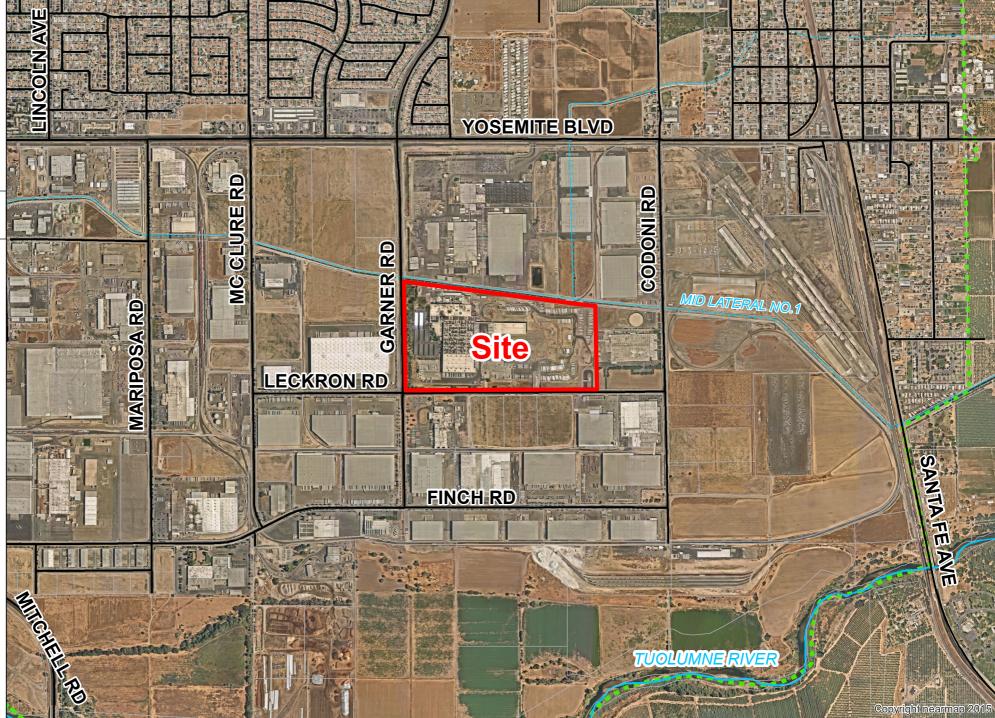
Road

River

Canal



Source: Planning Department GIS



VAR PLN2022-0009

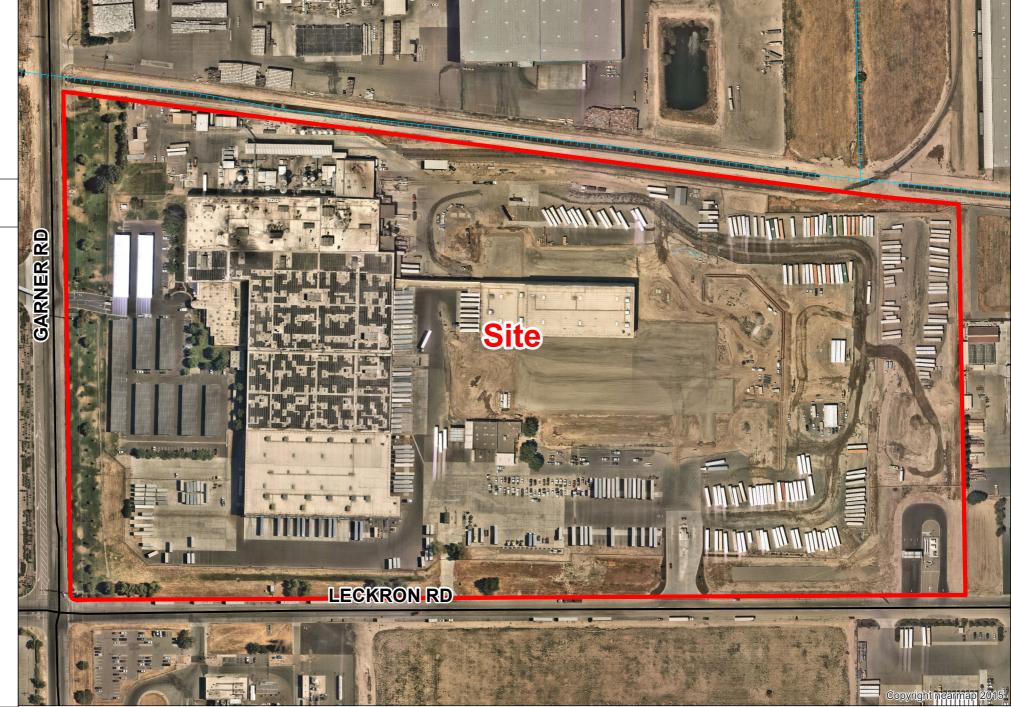
2021 AERIAL SITE MAP

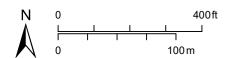
LEGEND

Project Site

—— Road

Canal

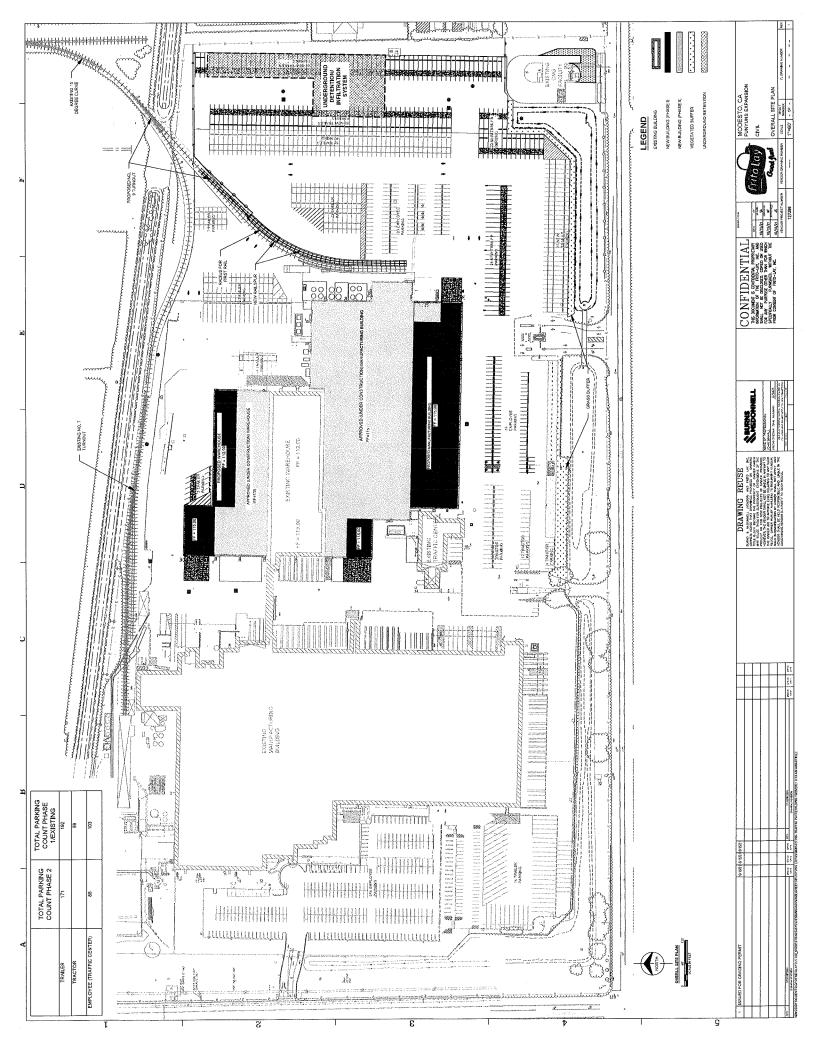


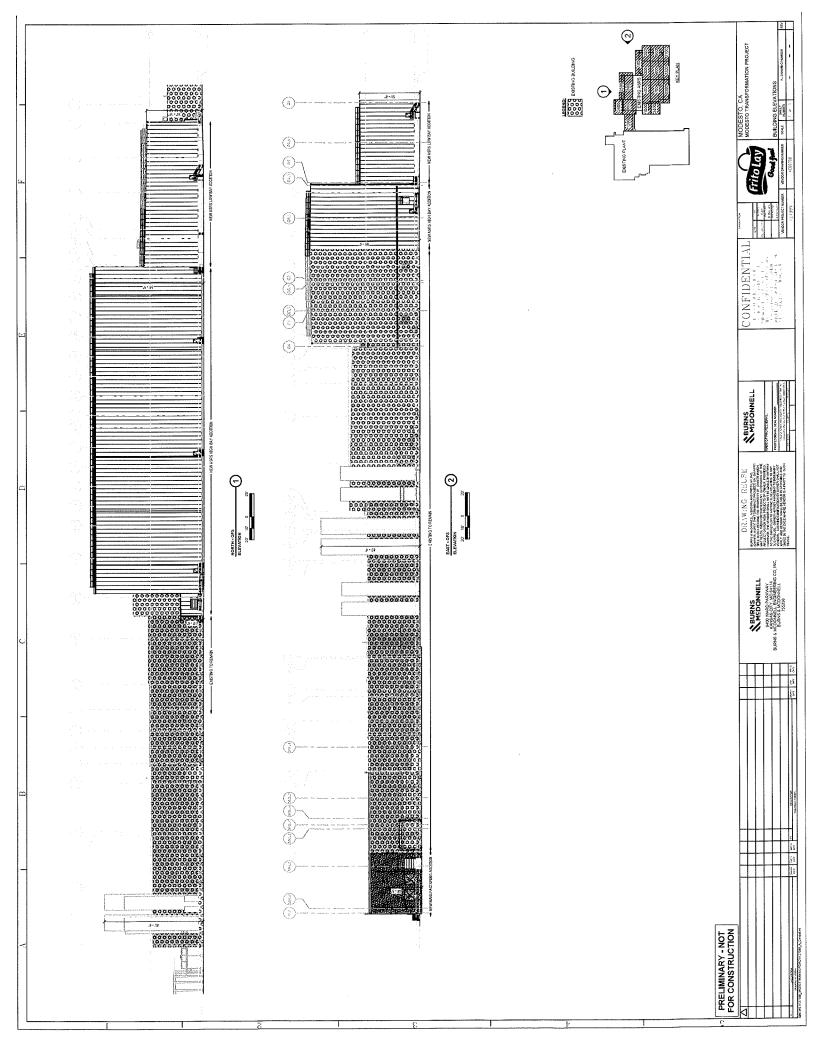


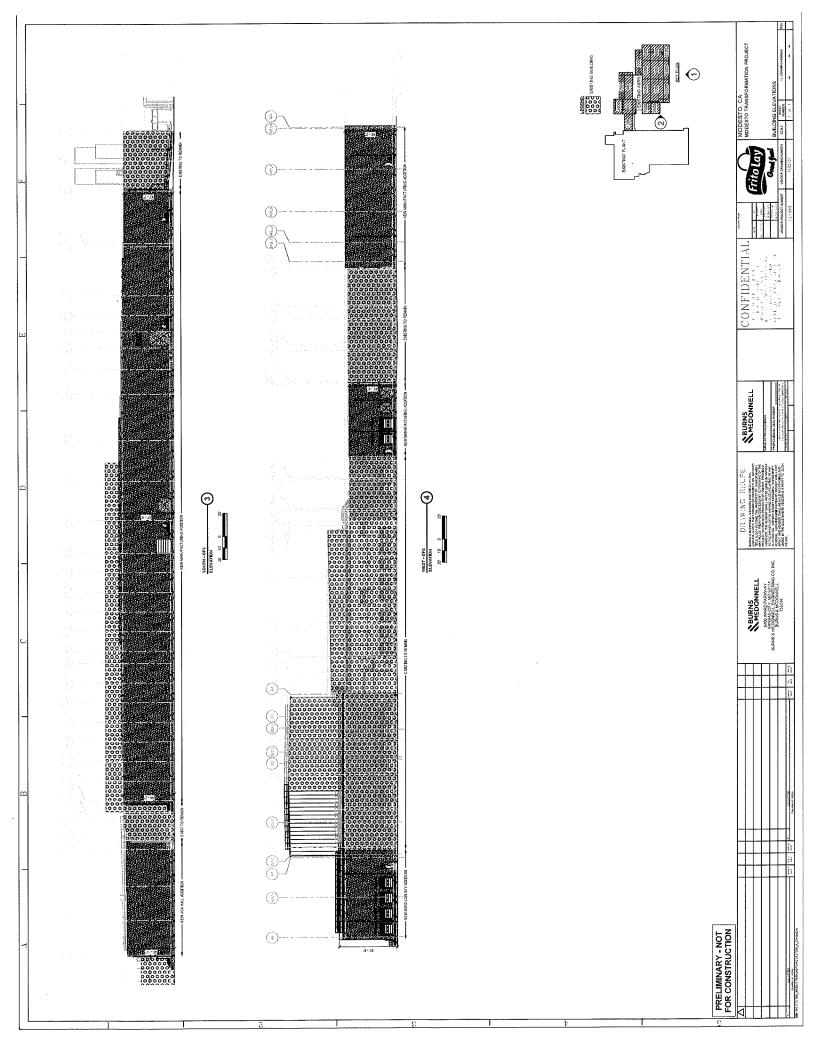
Source: Planning Department GIS

Date: 2/7/2022

1.66 0.45 27.29 AVE. 0.96 0.84 4.03 **FRITO LAY INC** LINCOLN 7.9 15.71 45.78 4.46 **D.16** 1.36 7.76 **VAR** 1.6 0.95 4 5.6 0.66 0.28 YOSEMITE BLVD 0.59 0.79 PLN2022-0009 0.34 0.08 10.26 .58 7.99 3.13 5.08 15.9 6.18 14.06 12.87 8.91 11.49 0.93 58.49 1.86 29.24 1.91 20.08 19.78 CLURE ACREAGE MAP 1.86 0.09 11.68 5.94 CODONI 3.32 0.96 1.82 5.4^Q 24.25 0.93 6.27 19.05 38.76 0.95 LEGEND 13.97 ပ **S** 9.85 0.52 6.19 MID LATERAL NO.1 33.05 0.95 **Project Site** 5.3 1.01 10.22 3.9 43.87 9.68 0.13 MARIPOSA **Site** Sphere of Influence 10.14 7.89 7.78 4.63 14.99 39.04 **LECKRON RD** 58.37 City of 67.72 15.58 5.65 13.39 3.29 3.46 10.43 9.04 9.43 13.33 Parcel/Acres 16.71 22.32 9.19 18.94 .56 2.29 SANTA 9.56 Road 2.3 4.05 17.32 10.01 12.18 13.52 3.38 16.1 9.98 12.59 58.37 8.64 10.35 36.34 **FINCH RD** River 4.94 23.5 17.74 4.5 4.9 7.34 9.11 6.89 4.97 7.86 6.04 T 2.64 Canal AVE. 1.72 1.3 1.69 24.43 22.83 18.94 15.83 22.81 1.3 MITCHELL 40.92 76.03 8.66 24.07 69.79 1,500ft 84.65 14.59 14.19 94.44 **TUOLUMNE RIVER** 300 m 28.9 14.28 144.02 17.22 Source: Planning Department GIS Date: 2/7/2022 19.27







Prepared for Frito-Lay, Inc. Modesto, California

Project Number **1690022886**

Date

February 2022

AIR QUALITY AND GREENHOUSE GAS ANALYSIS FRITO-LAY MODESTO TRANSFORMATION PROJECT FRITO-LAY MODESTO, CALIFORNIA



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ACRONYMS AND ABBREVIATIONS

AB - Assembly Bill

BEV - battery electric vehicle

BPS - best performance standards

CAA - Clean Air Act

CALEEMOD - California Emissions Estimator Model

CalEPA - California Environmental Protection Agency

CAP - criteria air pollutant

CARB - California Air Resources Board

CAT - Climate Action Team

CEQA - California Environmental Quality Act

cfh - cubic feet per hour

CH₄ - methane

CNG - compressed natural gas

CO - carbon monoxide

CO₂ - carbon dioxide

CO2e - carbon dioxide equivalents

cy - cubic yards

DTC - Dorito Tortilla Chip

EMFAC - Emission Factor Model

EO - Executive Order

EPA - Environmental Protection Agency

EVSE - electric vehicle supply equipment

FCC - Fried Corn Chip

GHG - greenhouse gas

gpm - gallons per minute

HDV - heavy-duty vehicles

HHDT - heavy heavy-duty truck

kWh - kilowatt hour

LCFS - Low Carbon Fuel Standard

LDA - passenger car

LDT - light-duty truck

MDV - medium-duty vehicle

MHDT - medium heavy-duty truck

MPO - metropolitan planning organization

MT - metric ton

MW - megawatts

N₂O - nitrous oxide

NO_x - oxides of nitrogen

NZE - near-zero emission

OFS - Onion Fried Snack

PM_{2.5} - particulate matter less than 2.5 microns in diameter

 PM_{10} - particulate matter less than 10 microns in diameter

RNG - renewable natural gas

ROG - reactive organic gases

SJVAB - San Joaquin Valley Air Basin

SJVAPCD - San Joaquin Valley Air Pollution Control District

SO₂ – sulfur dioxide

SOI – sphere of influence

sqft - square feet

StanCOG – Stanislaus Council of Governments

VOC – volatile organic compounds

ZE - zero emission

1. INTRODUCTION

1.1 Purpose of the Air Quality and Greenhouse Gas Analysis

Frito-Lay, Inc. (Frito-Lay) is proposing to expand its existing Modesto snack food manufacturing facility to support the addition of new snack food production lines, packaging systems and warehouse operations to increase snack food production capacity at the Modesto facility. This air quality and greenhouse gas (GHG) analysis has been prepared to evaluate whether the estimated criteria air pollutant (CAP) and GHG emissions from the Frito-Lay Project (Project) would cause significant impacts to the project area. This assessment follows the *Guidance for Assessing and Mitigating Air Quality Impacts* prepared by the San Joaquin Valley Air Pollution Control District (SJVAPCD or District) for quantification of emissions and evaluation of potential impacts to air resources.¹

On May 20, 2021, the Stanislaus County Planning Commission approved a project involving addition of a 39,000 sq ft warehouse building, a 127,000 sq ft manufacturing building, a 2nd rail spur, receiving and storage equipment, and an expansion of the retention pond.² Two new snack food production lines will be installed as part of the approved project. That project is currently under construction with completion scheduled for October 2022. The analyses presented in this report encompass both the project approved on May 20, 2021 as well as the proposed Project.

1.2 Organization of the Air Quality and Greenhouse Gas Analysis

The air quality and GHG analysis is organized as follows:

Chapter 1 Introduction provides a brief description of the proposed Project, as well as the purpose and intended use of the analysis.

Chapter 2 Project Description provides a detailed description of the proposed Project, including its location and setting. Project objectives are identified, and information is provided on the proposed Project characteristics and construction scenario.

Chapter 3 Air Quality Analysis provides a description of the calculation methodology for CAP emissions for construction, permitted operational activities, and non-permitted operational activities. This section also includes an analysis of air quality impact.

Chapter 4 Greenhouse Gas Analysis provides a description of the calculation methodology for GHG emissions for construction, permitted operational activities, and non-permitted operational activities. This section also includes an analysis of GHG impact.

Chapter 5 Summary summarizes the findings of the air quality and GHG analysis.

Chapter 6 Preparers identifies those persons responsible for the preparation of this analysis.

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SJVAPCD Guidance for Assessing and Mitigating Air Quality Impacts. Available at: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed: December 2020.

² Stanislaus County Department of Planning and Community Development Variance Permit No. 2020-0079. Date of Approval: May 20, 2021.

2. PROJECT DESCRIPTION

2.1 Project Background

Frito-Lay, Inc. (Frito-Lay) is proposing to expand the existing Modesto facility to support the addition of new snack food production lines, packaging systems and warehouse operations. This Project would involve the addition of new structures, installation of new snack food production equipment, and addition of a second rail line branch. The Modesto facility investments also include new onsite solar electricity generation equipment, compressed natural gas (CNG) fueling infrastructure to support new near-zero emission (NZE) vehicles, and battery electric vehicle (BEV) charging infrastructure to support new light-duty and heavy-duty zero emission (ZE) on-road and off-road vehicles. The proposed changes will increase snack food production capacity at the Modesto facility, increase the warehouse capacity to meet the demands of the expanded production lines, and reduce the need to import of packaged snack food products from other plants.

2.2 Project Location

The Project site is located on a 71.38-acre parcel at 600 Garner Road, Modesto, Stanislaus County, California, on unincorporated lands. The site is an existing snack food production facility that processes corn and potato starch to make tortilla chips, potato chips, and fried cheese puffs. The Project site is in an area zoned as Industrial (M) under the Stanislaus County General Plan and is generally surrounded by industrial and agricultural land uses. The site is within the City of Modesto sphere of influence (SOI).

2.3 Existing Environment

The site is adjacent to unrelated industrial facilities on its north, south, east, and west sides. In addition, agricultural fields are located both south and west of the facility. The closest residential use is located approximately 2000 feet north of the facility. The closest school is located approximately 4000 feet northwest of the facility.

2.4 Project Description

The Frito-Lay Modesto facility (Facility) was established in 1990 and currently consists of one main manufacturing/warehousing building (436,000 square feet (sq ft)), one dedicated warehouse building (63,000 sq ft), and a traffic center for management of material receiving activities and finished product shipping. On May 20, 2021, the Stanislaus County Planning Commission approved a project involving addition of a 39,000 sq ft warehouse building, a 127,000 sq ft manufacturing building, a 2nd rail spur, receiving and storage equipment, and an expansion of the retention pond.³ Two new production lines will be installed as part of the approved project. That project is currently under construction with startup of the second production line scheduled for October 2022.

With this Project, Frito Lay is proposing to add additional structures to house new manufacturing and warehouse operations, new material receiving and storage operations. Site investments also include new renewable (solar) energy generation equipment, and infrastructure to support ZE and NZE vehicles. These are described in the following sections.

Manufacturing and Packaging Operations

Frito-Lay is proposing to add a new Onion Fried Snack (OFS) production line to the 127,000 sq ft manufacturing building currently under construction. Frito-Lay proposes to commence

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³ Stanislaus County Department of Planning and Community Development Variance Permit No. 2020-0079. Date of Approval: May 20, 2021

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installation of the OFS production line in August 2022 and commission the equipment by March 2023. The new OFS production line will consist of dump stations, bins, a hopper, a blender, 10 extruders, a vegetable oil fryer, an ambient air cooler, an electric oven, and an OFS seasoning system equipped with a scrubber.

Additionally, Frito-Lay is proposing to add a new manufacturing building measuring approximately 62,000 sq ft with a height of approximately 46 ft. Construction of this new building would begin in early 2022 and be completed in early 2023. The building is expected to house a new Fried Corn Chip (FCC) production line consisting of a corn cook, soak, and wash system, a vegetable oil fryer, an ambient air cooler, and a seasoning system equipped with a scrubber. In addition, Frito-Lay will be installing a new natural gas-fired boiler to generate steam for process heating.

Warehouse Operations

Frito-Lay is proposing to add an approximately 27,000 sq ft warehouse building. This building would be equipped with new (2-crane) automated storage and retrieval systems with 5,184 pallet areas. The height of the new warehouse building will be approximately 84 ft. Construction would be complete on the new warehouse building in 2023.

Receiving and Storage Operations

Frito-Lay is proposing to add one new corn silo, and one new cornmeal silo. The cornmeal tank would be located at the eastern side of the manufacturing building currently under construction. The corn silo would be located on the eastern side of the under-construction 127,000 sq ft manufacturing building. Bulk materials would be received either by truck or by rail. A new second rail branch would be added to the 2nd rail spur (currently under construction) and would be located east of the manufacturing building (currently under construction).

Solar Energy and NZE and ZE Vehicle Infrastructure

Frito-Lay is also making investments to transform the Modesto facility into a near-zero emission freight facility through addition of renewable energy infrastructure, the installation of NZE and ZE infrastructure, and the purchase of NZE and ZE vehicles. These investments include:

- Installation of a solar photovoltaic carport for the on-site generation of carbon-free electricity;
- Light duty vehicle (LDV) electric vehicle supply equipment (EVSE) consisting of 14 employee charging stations and new 696 kWh energy storage equipment;
- A publicly available compressed natural gas (CNG) fueling station with renewable natural gas (RNG) attributes for use in Frito-Lay NZE CNG-fueled vehicles;
- Lithium-ion forklift chargers to support new ZE forklifts;
- 12 box truck and yard tractor EVSE;
- New EVSE and new 2682 kWh energy storage system for ZE heavy-duty vehicles (HDV);
- Purchase of at least 38 CNG tractors capable of utilizing RNG;
- Purchase of at least 12 lithium-ion ZE forklifts;
- Purchase of at least 3 ZE electric yard tractors; and

Project Description Ramboll

• Purchase of at least 6 ZE electric box trucks.

Additional Considerations

Prior to construction, grading will be required, with an estimated 12,800 cubic yards of soil disturbance. There are no existing public utility easements inside the property fenceline for irrigation, telephone, or electric utilities. Existing customer-owned utility and irrigation facilities will not need to be removed as a result of this Project. However, existing (customer-owned) utility connections will be extended to new points of service within the Project site. Extensions include a new fire water line, new electric transformers, new service drops from overhead electrical lines, new underground electric service lines, and a new domestic water service line. The landscaped areas will increase by approximately 10,500 sq ft as a result of this Project.

Frito-Lay expects the proposed Project to add 75 employees when the OFS production line is installed, and an additional 55 employees when the FCC production becomes operational. 43 employees will be added to the minimum shift, and 51 employees will be added to the maximum shift.

Daily truck loadings and deliveries before and after the Project are presented below:

	Ave	Average Daily				
Loads	Currently Authorized	After Project	Change			
Outbound	86	93	7			
Inbound	7	5	(2)			

Once the new process lines are operational, products that were previously shipped to the facility will instead be manufactured at the Modesto facility. Therefore, inbound loads to the Project site are expected to decrease as a result of the Project. Truck deliveries and loadings are expected to occur 24 hours/day.

The Facility currently receives approximately 28 railcar deliveries per week. This is expected to increase to approximately 33 railcars per week as a result of the Project.

The Project is expected to result in an increase of utility usage at the site as follows:

Table 1.1: Pre- and Post-Project Utility Usage

Utility	Currently Authorized	After Project	Change
Water ¹	581 gpm	836 gpm	255 gpm
Electricity	61,844 MWh	94,209 MWh	32,365 MWh
Sewer	643-693 gpm	858-908 gpm	215 gpm
Natural Gas	580,420 MMBtu/yr	1,023,431 MMBtu/yr	443,011 MMBtu/yr

 $^{^{1}}$ Facility water is supplied through a combination of onsite wells and City of Modesto service.

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Stormwater is currently handled by overland flow into an at-grade retention basin located on the southeast corner of the property. This Project will add approximately 72,412 sq ft of new paved areas to the site.

2.5 Schedule

Frito-Lay has developed a preliminary project schedule, presented in Table 1.2.

Table 1.2: Frito-Lay Transformation Project Schedule

Task	Start Date	End Date
Construction of new 27,000 sq ft warehouse building	Aug 2022	Jul 2023
Construction of the new 62,000 sq ft manufacturing building	Mar 2023	Nov 2023
Construction of new rail branch	Feb 2022	May 2022
Construction of renewable energy and ZE/NZE infrastructure	Dec 2019	Feb 2022

Project Description Ramboll

3. AIR QUALITY ANALYSIS

Air quality within the Project area is regulated by the U.S. Environmental Protection Agency (EPA), the California Air Resources Board (CARB), and the San Joaquin Air Pollution Control District (SJVAPCD). Regional impacts on air quality result from emissions generated during short-term (construction) and long-term (operational) activities. SJVAPCD has established thresholds of significance for the following CAPs: volatile organic compounds (VOC), nitrogen oxides (NO_x), particulate matter (PM), carbon monoxide (CO), and sulfur dioxide (SO₂). The thresholds of significance address construction emissions, operational emissions resulting from permitted equipment and activities, and operational emissions resulting from non-permitted equipment and activities. This section describes the calculation methodology for CAPs and compares the results to the thresholds of significance.

3.1 Construction CAP Emissions

Construction phase CAP emissions at the Project site will primarily consist of emissions from off-road construction equipment and on-road construction vehicles during each phase of construction. Construction phase emission calculations are presented in Appendix A. Potential air emissions associated with the Project's construction phase activities were estimated using the California Emissions Estimator Model (CalEEMod®). Construction phase emissions will be short-term and are anticipated to occur over a roughly 16-month period (see Table A.2).

Assumptions used in CalEEMod® simulation are presented in the following sub-sections. CalEEMod® output files are presented in Appendix B.1.

The primary air pollutants associated with construction emissions will include fugitive PM and diesel exhaust emissions of NO_x and PM. Exhaust emissions will be typically emitted by onroad vehicles and/or off-road equipment. Fugitive emissions result from PM dust suspended in the air by wind action and construction related activities. SO_x and VOC will also be emitted during construction, but to a lesser extent.

Emissions from Construction Equipment

Construction equipment emissions were estimated for off-road equipment engine use based on equipment lists and projected phase durations. The fugitive emissions resultant from off-road equipment usage were also included in this analysis.

Since most of the off-road construction equipment used for construction projects is dieselfueled, the CalEEMod® model assumes all the equipment operates on diesel fuel. There will be no starting or evaporative emissions associated with the construction equipment as these are considered *de minimis* for diesel-fueled equipment. CalEEMod® calculates the exhaust emissions based on default values for horsepower and load factor taken from the CARB OFFROAD2011 model. ⁵ CalEEMod® default equipment types and quantities were assumed for each construction phase.

The list of estimated construction equipment for each construction phase is presented in Table A.2.

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⁴ California Emissions Estimator Model Version 2020.4.0. Available at: <u>www.caleemod.com</u>. Accessed: December 2021.

⁵ California Emissions Estimator Model User's Guide. Appendix A. Page 7. Version 2020.4.0. Available at: http://www.caleemod.com. Accessed: December 2021.

CalEEMod® was also used to calculate fugitive dust associated with the demolition, site preparation, and grading phases. The quantity of material to be demolished as well as the estimated quantity of material removed during the site preparation and grading phases were provided by the Facility (Table A.3). Fugitive emissions from truck loading were based on the estimated volume of soil to be exported (43,400 cubic yards). Potential PM₁₀ and PM_{2.5} emissions from fugitive dust will be controlled by watering the construction site or implementing other equivalent stabilization methods in accordance with SJVAPCD requirements. CalEEMod® defaults assume that the construction site is watered twice a day; a control measure estimated to reduce fugitive dust emissions by 55%.

Emissions from On-Road Trips

Construction activities can generate on-road vehicle exhaust (including evaporative emissions) and entrained road dust emissions from personal vehicles for worker/vendor commuting, and trucks for soil/materials hauling. These emissions were calculated in the CalEEMod® model based on the estimated number of trips (Table A.4) and vehicle miles traveled (VMT) along with emission factors from the EMFAC2014 model. The number of worker, vendor, and hauling trips were estimated using CalEEMod® defaults for all phases.

The mobile source emissions were calculated using trip rates and lengths, as well as emission factors from EMFAC2017 as outlined in the CalEEMod® user's guide.⁷

Details regarding on-road trips generated during the construction phase are presented in Table A.4.

Maximum Emissions from Project Construction

The maximum annual criteria air pollutant emissions estimated due to construction of the Project are summarized in Table 3.1. Detailed CalEEMod® outputs can be found in Appendix B.1. The estimated annual emissions for construction phase activities are less than the SJVAPCD's significance thresholds for construction for all criteria pollutants.

Table 3.1:	Project Maximum A	Annual CAP Emissions	from Construction
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	Maximum Annual Emissions (tons/year)						
Calendar Year	ROG	со	SO ₂	NOx	PM ₁₀	PM _{2.5}	
Maximum Overall	1.16	4.22	0.01	6.22	0.93	0.52	
SJVAPCD Threshold ¹	10	100	27	10	15	15	
Above Threshold?	No	No	No	No	No	No	

Notes:

Criteria pollutant significance thresholds for construction emissions obtained from SJVAPCD Air Quality Thresholds of Significance. Available at: http://www.valleyair.org/transportation/0714-GAMAQI-Criteria-Pollutant-Thresholds-of-Significance.pdf. Accessed: December 2021.

Fugitive Dust Control at Construction Sites: New Requirements. Available at: https://www.valleyair.org/busind/comply/PM10/forms/ReqVIIICAB.pdf. Accessed: December 2021.

California Emissions Estimator Model User's Guide. Appendix A. Page 37. Version 2020.4.0. Available at: http://www.caleemod.com. Accessed: December 2021.

3.2 Operational CAP Emissions

3.2.1 Operational CAP Emissions from Permitted Equipment and Activities

Within the broader category of operational emissions, SJVAPCD has separate emission thresholds for equipment and activities subject to SJVAPCD permits (i.e., permitted), and those which are not subject to SJVAPCD permits (i.e., non-permitted). Portions of the proposed Project will be subject to SJVAPCD permitting requirements under SJVAPCD Regulation II (Permits).

Frito-Lay plans to submit applications to SJVAPCD for ATCs for the following equipment:

- Onion Fried Snack (OFS) process line
- Additional cornmeal receiving, storage, and handling system
- Boiler (future)
- Fried Corn Chip (FCC) process line (future)
- Additional corn receiving, storage, and handling system.

The Facility's post-Project potential to emit was calculated based on equipment-specific emission factors and control efficiency of control equipment. Emission calculations are provided in Appendix C. The increases in facility emissions expected after full Project implementation are compared to SJVAPCD thresholds below.

Table 3.2: Operational CAP Emissions from Permitted Equipment

	Post-Project Potential to Emit (tons/year)						
Pollutant	ROG	СО	SO ₂	NOx	PM ₁₀	PM _{2.5}	
Total	1.62	17.45	0.15	2.02	11.82	11.82	
SJVAPCD Threshold ¹	10	100	27	10	15	15	
Above Threshold?	No	No	No	No	No	No	

Notes:

Criteria pollutant significance thresholds for operational emissions from permitted equipment obtained from SJVAPCD Air Quality Thresholds of Significance. Available at: http://www.valleyair.org/transportation/0714-GAMAQI-Criteria-Pollutant-Thresholds-of-Significance.pdf. Accessed: December 2021.

3.2.2 Operational CAP Emissions from Non-Permitted Equipment and Activities

As noted above, SJVAPCD has separate emission thresholds for permitted operational equipment and non-permitted operational equipment. For the purpose of calculating CAP emissions, the non-permitted operational equipment and activities will include Project-related emissions from area sources, non-permitted natural gas usage, and mobile sources (i.e., passenger cars, trucks, trains). Emission calculations for non-permitted operational sources are provided in Appendix D.

Area Source Emissions

Project-related area source emissions will include emissions from architectural coating, consumer products, and landscaping. These emissions were estimated in CalEEMod, using

default emission factors. These emissions, summarized in Table D.1, are dependent on the land use areas, which were provided by the facility and shown in Table A.1.

Emissions from Natural Gas Usage

The Project-related emissions from increased (non-permitted) natural gas usage expected after Project implementation were calculated outside of CalEEMod, using CalEEMod default emission factors for nonresidential land uses. CAP emissions resulting from this category are presented in Table D.8. These totals account for the increase in natural gas required to replace the facility's diesel heavy heavy-duty and medium heavy-duty trucks with natural gas-powered vehicles, as calculated in Table D.7.

Mobile Emissions

Passenger Cars

As a result of the Project, the facility expects to hire 336 employees. Therefore, the expected increase in the number of daily trips was estimated at twice that number, or 672 additional one-way trips per day. Emissions from Project-related passenger cars were calculated. Baseline (calendar year 2020) passenger car emissions were analyzed and compared to post-Project emissions. The total passenger car emissions attributed to the Project were calculated by subtracting the baseline emissions from the Project emissions.

It was assumed that the average passenger car trip length is the distance that an employee will have to travel roundtrip from their home to the facility. This distance was estimated using CalEEMod defaults for home-work trips in urban Stanislaus County.⁹

In both scenarios, passenger car emissions were calculated using EMFAC2021 (EMFAC) default emission factors for the passenger car (LDA), light-duty truck (LDT), and mediumduty vehicle (MDV) vehicle classes. 10 The emission factors in the post-Project scenario are lower than in the baseline scenario as a result of car regulations becoming increasingly stringent over time. However, since the number of passenger car trips increases as a result of the increased facility capacity, the estimated CAP emissions are larger in the post-Project scenario then they are in the baseline scenario for all pollutants except NO_x , as shown in Table D.22. EMFAC output files are presented in Appendix B.2, and additional calculation details can be found in Appendix D.

Trucks

Project-related emissions from trucks were calculated using the same general methodology as passenger vehicles. First, baseline (calendar year 2020) truck emissions were analyzed, then post-Project emissions were evaluated. The total truck emissions attributed to this Project were calculated by subtracting the baseline emissions from the Project emissions. Project-related emissions from trucks included two types of trucks: large delivery trucks and

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⁸ California Emissions Estimator Model User's Guide. Appendix D. Page D-339. Version 2020.4.0. Available: http://www.aqmd.gov/docs/default-source/caleemod/user-guide-2021/appendix-d2020-4-0-full-merge.pdf?sfvrsn=12. Accessed: December 2021.

Galifornia Emissions Estimator Model User's Guide. Appendix D. Page D-86. Version 2020.4.0. Available: http://www.aqmd.gov/docs/default-source/caleemod/user-guide-2021/appendix-d2020-4-0-full-merge.pdf?sfvrsn=12. Accessed: December 2021.

¹⁰ EMFAC Model Version 2021.1.1. Available at: https://arb.ca.gov/emfac/emissions-inventory. Accessed: December 2021

box trucks. Baseline and post-Project emissions for each truck type were calculated using separate methodologies, as described in this section.

The average trip length for large delivery trucks was estimated using the following methodology:

- 1. The distance from the facility to each of six Frito-Lay distribution centers (three in Northern California, three in Southern California) was mapped.
- 2. The average trip length for each region was weighted based on the population of the city in which each distribution center is located.
- 3. To calculate the overall truck trip length, the average trip length to each region was once again weighted, this time assuming that 65% of the trucks are sent to Northern California, and 35% of the trucks are sent to Southern California.

Calculation details can be found in Table D.10. The increase in number of larger delivery truck trips from the baseline to post-Project scenarios was calculated based on the facility's current production levels and load quantities. The snack food production capacity increase was used to estimate the number of delivery loads and ultimately truck trips required as a result of the Project.

The fleet mix for larger delivery trucks also changes between the baseline and post-Project scenarios. The facility currently operates 38 natural gas fueled trucks, and 12 diesel trucks. With the Project, the facility expects to operate 40 natural gas fueled trucks and 14 electric trucks. This change in the heavy-duty fleet mix reflects Frito-Lay's aggressive pursuit of alternative vehicle technologies as part of its corporate sustainability initiative.

EMFAC2021 was used to generate the average truck emission factors for each scenario. For the baseline scenario, EMFAC was run for the heavy-heavy duty truck (HHDT) vehicle class in 2020. Natural gas and diesel HHDT emission factors were averaged based on the expected fleet mix. Those emission factors were then multiplied by the average truck trip length and number of trips to estimate CAP emissions. For the Project scenario, only natural gas HHDT emission factors were obtained from EMFAC, since electric trucks have zero tailpipe emissions. As before, the emission factors were weighted based on fleet mix.

Baseline emissions from box trucks were calculated based on six diesel-fueled box trucks. The number of daily trips for box trucks in the baseline scenario was based on the assumption that each truck takes two trips per day. Since box trucks are confined to local travel, it was assumed that these box trucks travel approximately 15 miles in each direction per trip, for a total of 30 miles per round trip. Note that the box trucks are classified as medium heavy-duty vehicles, and EMFAC emission factors for this vehicle class were used accordingly to calculate both mile- and trip-based emission factors for the baseline scenario. The facility has committed to using electric box trucks during post-Project operations, which would result in zero tailpipe emissions.

While truck usage is expected to increase as a result of the Project, the change in the fleet composition from a mix of natural gas/diesel to natural gas/electric trucks and more stringent regulations result in lower emissions from trucks for some criteria pollutants, such as NO_x. A summary of MHDT and HHDT truck emissions in each scenario can be found in Table D.22. Additional calculation details are presented in Appendix D.

Trains

As with cars and trucks, in order to estimate emissions from trains, the average trip length was estimated. The rail route was mapped in GIS based on its known route. This total distance was estimated at 213 miles (Table D.23). A large portion of that distance is outside of SJVAPCD jurisdiction. For purposes of this analysis, 30% of the total emissions were estimated to occur within SJVAPCD, which is proportional to the percent of the rail distance within SJVAPCD boundaries.

Locomotive-specific emission factors were then identified. Emission factors for volatile organic compounds, carbon monoxide, and sulfur dioxide were obtained or calculated using US EPA Guidance..¹¹ California has more stringent emission standards than other states, so emission factors for particulate matter and NO_X were calculated separately, using CARB Guidance..¹² Emission factors were converted from grams per gallon to grams per ton-mile using the total ton-miles that Union Pacific freight trains travelled in 2020 and the total gallons of diesel fuel consumed by Union Pacific freight trains in 2020..¹³

Locomotive emissions were then calculated by multiplying these emission factors by the miles that the trains will travel within SJVAPCD and the weight of the trains travelling to the facility each year. The total train weight included the weight of the locomotive itself, as well as the weight of the empty railcars and loaded freight containers. Only the portion of the train weight that could be attributed to Frito-Lay was included in these calculations. This weight was calculated based on the number of railcars that deliver freight to Frito-Lay each week, and the estimated amount of corn, cornmeal, and oil used annually by the facility. The details of these calculations are presented in Table D.25.

As mentioned above, the locomotives travel throughout several other California Air Districts. It was determined that emissions will also be released within the Sacramento, Yolo Solano, Placer, and Northern Sierra Air Districts. While only emissions occurring within SJVAPCD were summed within the Project totals, emissions released in other districts were compared to those Districts' specific CEQA significance thresholds. All emissions totals were below applicable thresholds, as shown in Table D.28.

Off-Road Equipment

The facility uses off-road equipment that include yard tractors and forklifts as part of its daily operations. Emissions from these sources were quantified as part of the Project analysis. Unlike on-road vehicle emissions, off-road emissions are calculated based on daily emission rates as calculated using OFFROAD2021. The data provided by OFFROAD2021 are aggregated within the SJVAPCD jurisdiction, which results in emission factors applicable to the Project scenarios.

¹¹ Emission Factors for Locomotives. Available: https://nepis.epa.gov/Exe/ZyPDF.cgi/P100500B.PDF?Dockey=P100500B.PDF. Accessed: December 2021.

¹² 2016 Line Haul Locomotive Model and Update. Available: https://ww3.arb.ca.gov/msei/ordiesel/locolinehaul2017ei.docx. Accessed: December 2021.

^{13 2020} Union Pacific Class I Railroad Annual Report. Available: https://www.up.com/cs/groups/public/@uprr/@investor/documents/investordocuments/pdf up r1 2020.pdf. Accessed: December 2021.

¹⁴ OFFROAD Model Version 2021.1.1. Available at: https://arb.ca.gov/emfac/emissions-inventory. Accessed: December 2021

The facility operates four diesel-powered forklifts and one diesel-powered yard tractor under the baseline scenario. In OFFROAD2021, these equipment types were modeled as "Industrial – Forklifts" and "Cargo Handling Equipment – Rail Yard Tractor," respectively. Running OFFROAD2021 resulted in an emission rate and activity estimated for diesel fueled equipment within SJVAPCD, from which emission factors could be calculated. Calculation details can be found in Table D.21.

The facility has committed to reducing CAP and GHG emissions from off-road equipment usage by converting these diesel-powered equipment to electric-powered by the start of post-Project operation. It is estimated that for each piece of diesel off-road equipment retired, three equivalent pieces of electric equipment will have to be utilized in order to make up for time required for equipment cooling and charging. Unlike on-road mobile vehicles, OFFROAD2021 models emissions from off-road equipment based on equipment fuel consumption. Converting from diesel- to electric-powered equipment would therefore result in zero CAP and GHG emissions.

Total Operational CAP Emissions from Non-Permitted Sources and Activities

As detailed above, the incremental CAP emissions resulting from Project implementation include area source emissions, emissions from natural gas usage, and mobile source emissions. Contributions from each of these sources are summarized and compared to SJVAPCD thresholds in Table 3.3:

Table 3.3:	Operational	CAP	Emissions	from	Non-F	Permitted	Equi	pment
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	Incremental Project Emissions (tons/year)						
	ROG	СО	SO ₂	NOx	PM ₁₀	PM _{2.5}	
Area Sources	1.2	0.0	0.0	0.0	0.0	0.0	
Natural Gas Usage	0.5	4.0	0.0	4.7	0.4	0.4	
Mobile Emissions	-0.1	2.8	0.0	-2.7	-0.1	-0.1	
Total	1.6	6.8	0.02	2.0	0.3	0.2	
SJVAPCD Threshold ¹	10	100	27	10	15	15	
Above Threshold?	No	No	No	No	No	No	

Notes:

Criteria pollutant significance thresholds for operational emissions from non-permitted equipment obtained from SJVAPCD Air Quality Thresholds of Significance. Available at: http://www.valleyair.org/transportation/0714-GAMAQI-Criteria-Pollutant-Thresholds-of-Significance.pdf. Accessed: December 2020.

3.3 Air Quality Impact Analysis

Per Appendix G of the CEQA Guidelines, the air quality impacts of a project would be significant if the project would:

- 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;

- 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
 quality standard;
- d. Expose sensitive receptors to substantial pollutant concentrations, or;
- e. Create objectionable odors affecting a substantial number of people. 15

As shown in this report, the CAP emissions from construction, permitted operation, and non-permitted operation will all be under the respective SJVAPCD thresholds of significance. All Project impacts will be less than significant in the surrounding air quality districts as well. Therefore, this Project should have a less-than-significant impact on air quality.

Per the US EPA Green Book, portions of Stanislaus County are currently in non-attainment for ozone and particulate matter. 16 However, the increases in particulate matter emissions, as well as those of ozone precursors such as NO $_{\rm X}$ and VOCs, will be within the applicable SJVAPCD Thresholds of Significance. Thus, the potential increase in emissions of those pollutants will be considered less than significant.

The SJVAPCD recommends that an ambient air quality analysis be performed if on-site emission increases from construction, permitted operation, or non-permitted operation exceed 100 pounds per day for any pollutant. As shown in the Table 3.4, the expected emission increases for the Project will be less than 100 pounds per day for each pollutant for each category of emissions. Therefore, an air dispersion modeling analysis will not be required.

Air Quality Analysis Ramboll

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¹⁵ CEQA Appendix G: Environmental Checklist Form. Available: https://resources.ca.gov/CNRALegacyFiles/ceqa/docs/ab52/final-approved-appendix-G.pdf. Accessed: December 2021.

¹⁶ California Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants. Available: https://www3.epa.gov/airquality/greenbook/anayo ca.html. Accessed: December 2021.

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Table 3.4: Ambient Air Quality Analysis CAP Threshold Comparison

	Post-Project Potential to Emit (lb/day)						
	ROG	СО	SO ₂	NOx	PM ₁₀	PM _{2.5}	
Construction	6.3	23.1	0.1	34.1	5.1	2.9	
Permitted Operation	19.3	95.8	1.3	11.0	64.6	64.6	
Non-Permitted Operation	8.9	37.2	0.1	11.1	1.5	1.3	
Maximum	19.3	95.8	1.3	34.1	64.6	64.6	
SJVAPCD Threshold ¹	100	100	100	100	100	100	
Above Threshold?	No	No	No	No	No	No	

Notes:

The expansion of the existing snack food manufacturing facility under the Project will not result in objectionable odors. Odors during the construction phase, if any, will also be less than significant. Construction equipment is typically fueled by diesel, which could lead to odors. However, diesel-fueled construction equipment is required by regulation to use low sulfur content fuel in accordance with SJVAPCD Rule 4702.17 Compliance with this rule and use of low sulfur fuel will minimize potential odors. Additionally, the facility is located in an industrial-zoned area. The nearest sensitive receptor is a residence located approximately 2,000 feet from the Project site, and therefore is not expected to be impacted by Project activities. Diesel trucks that will be operated onsite as part of construction activities will not be allowed to idle longer than five minutes in any one location, in accordance with the CARB idling Airborne Toxics Control Measure (13 CCR §2485).18 Therefore, construction equipment and haul trucks are not expected to generate diesel exhaust odor greater than typically present at the Facility. Given the intermittent and temporary nature of construction activities and the distance to sensitive receptors, any potential odors will not be expected to impact offsite receptors.

Air Quality Analysis Ramboll

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Thresholds for ambient air quality screening requirements from SJVAPCD Guidance for Assessing and Mitigating Air Quality Impacts. Available: http://www.valleyair.org/transportation/GAMAQI 12-26-19.pdf. Accessed: December 2021.

¹⁷ Rule 4702, Internal Combustion Engines. Available at: https://www.valleyair.org/rules/currntrules/R4702 Clean.pdf. Accessed: December 2021.

¹⁸ 13 CCR §2485, Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling. Available at: https://www.arb.ca.gov/msprog/truck-idling/13ccr2485 09022016.pdf. Accessed: December 2021.

4. GREENHOUSE GAS ANALYSIS

4.1 Construction Emissions

Greenhouse gas (GHG) emissions were calculated using CalEEMod as described in Section 3.1. The methodology was the same for GHG emissions as for criteria air pollutants. CalEEMod output files are presented in Appendix B.1. Table 4.1 presents a summary of GHG emissions from construction. Additional calculation details are presented in Appendix A.

Table 4.1: Project Maximum Annual GHG Emissions from Construction

	Maximum Annual Emissions (MT/year)						
Calendar Year	Total CO ₂	CH ₄	N ₂ O	CO₂e			
Maximum Overall	993	0.17	0.06	1,013			

4.2 Operational Emissions

4.2.1 Operational GHG Emissions from Permitted Equipment and Activities

As described in Section 3, Frito-Lay is expanding its Modesto facility to include additional process lines, and associated receiving, storage, and handling equipment. Greenhouse gas emissions are expected from one boiler rated at 50 MMBtu per hour. The potential GHG emissions from this boiler are estimated in Table 4.2, below.

Table 4.2: Operational GHG Emissions from Permitted Equipment

	Incremental Project Emissions (MT/year)						
	Total CO ₂	CH₄	N ₂ O	CO₂e			
Boiler	23,330	0.45	0.43	23,468			
Totals	23,330	0.45	0.43	23,468			

4.2.2 Operational GHG Emissions from Non-Permitted Equipment and Activities

For the purpose of calculating GHG emissions, the non-permitted operational equipment and activities include emissions from area sources, electricity usage, natural gas usage, mobile sources (passenger cars, trucks, trains), water usage, and solid waste disposal.

Area Source Emissions

Area source GHG emissions were estimated in CalEEMod using default emission factors, similar to CAP emissions. These GHG emissions, summarized in Table D.1, are dependent on the land use areas, which were provided by the facility and presented in Table A.1.

Emissions from Electricity Usage

The emissions that will result from Project-related electricity consumption were estimated outside of CalEEMod to account for requirements in Senate Bill 100, which requires ever increasing percentages of renewable energy over time. ¹⁹ While Modesto Irrigation District is the electricity provider for Frito-Lay, power content labels were not available for recent

Greenhouse Gas Analysis

¹⁹ CA Senate Bill 100. Available:

https://leqinfo.leqislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180SB100. Accessed: December 2021.

calendar years. As such, nearby PG&E power content labels were obtained for three previous years (i.e., 2016, 2017, and 2018) and used to calculate compliant carbon dioxide intensity factors instead. ²⁰ These power content labels provide the percentage of PG&E's total energy portfolio sourced from renewable and non-renewable sources. Using these power content labels as a reference, carbon dioxide intensity factors for PG&E's energy portfolio were then backcalculated to obtain a baseline intensity factor, which accounts for only non-renewable sources. Per Senate Bill 100, California utility companies must use at least 33% renewable sources in 2020, and 50% in 2026. By linearly interpolating between the points, it was determined that 38.7% of PG&E's electricity will come from renewable sources by 2022 in order to meet the requirements of Senate Bill 100. The final carbon dioxide intensity factor was calculated by taking that baseline factor, which assumed no renewable energy, and reducing it in accordance with these standards. Detailed calculations can be found in Table D.2. This adjusted carbon dioxide intensity factor was used in all CalEEMod runs; therefore, all GHG emissions were calculated using CalEEMod per Senate Bill 100 requirements.

To calculate the potential GHG emissions from Project-related electricity usage, the annual electricity usage was multiplied by this emission intensity factor. CH_4 and N_2O emissions were calculated using CalEEMod defaults for nonresidential land uses. 21 CO_2e emissions were calculated by multiplying the CO_2 , CH_4 , and N_2O emissions by their respective global warming potentials, and summing the result. Results are presented in Table D.6.

The increased electricity usage at the facility accounts for the additional electricity required to meet the facility's ambitious electrification goals. These goals include adding electric heavy heavy-duty trucks, medium heavy-duty trucks, yard tractors, and forklifts to the facility's on- and off-road fleet. As mentioned in Section 2.4, the facility has also committed to providing 7.1 MW of onsite solar capacity via solar carports and roof-mounted solar panels. Table D.5 shows a full breakdown of facility electricity use by sector.

Emissions from Natural Gas Usage

GHG emissions from natural gas usage were calculated in the same manner as CAP emissions. Refer to Section 3.2.2 for details, and Table D.8 for emission quantification.

Mobile Emissions

Passenger Cars

Project-related GHG emissions from passenger cars were calculated in the same manner as CAP emissions, except where noted below. Refer to Section 3.2.2 and Appendix D for details.

Trucks

Project-related GHG emissions from trucks were calculated in the same manner as and using the same emission factor sources as the CAP emissions. As previously stated, the facility has committed to converting its fleets of larger delivery trucks and box trucks from diesel-

PG&E Power Content Labels. Available: https://www.pge.com/pge_global/common/pdfs/your-account/your-bill/understand-your-bill/bill-inserts/2018/10-18 PowerContent.pdf, and https://www.pge.com/pge_global/local/assets/data/en-us/your-account/your-bill/understand-your-bill/bill-inserts/2017/november/power-content.pdf, and https://www.pge.com/pge_global/common/pdfs/your-account/your-bill/bill-inserts/2019/1019-Power-Content-Label.pdf. Accessed: December 2021.

²¹ California Emissions Estimator Model User's Guide. Appendix D. Page D-3. Version 2020.4.0. Available: http://www.aqmd.gov/docs/default-source/caleemod/user-guide-2021/appendix-d2020-4-0-full-merge.pdf?sfvrsn=12. Accessed: December 2021.

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powered to electric-powered. Post-Project electricity consumption captures the usages from the anticipated 14 electric large delivery trucks and 6 electric box trucks. See Section 3.2.2 for details. A summary of truck emissions is presented in Table D.22.

Trains

The methodology for calculating Project-related GHG emissions from trains was the same as for CAP emissions. See Section 3.2.2. for details. However, the emission factor sources were different for GHGs. The CO₂ emission factor was calculated using methodology outlined in EPA Guidance: Emission Factors for Locomotives. ²² The CH₄ and N₂O emission factors were taken from Table 5 of EPA Guidance: Emission Factors for Greenhouse Gas Inventories. ²³ These emission factors are specific to diesel-fueled locomotives. Emission factors were converted into units of gram per ton-mile using Union Pacific locomotive data, as discussed in Section 3.2.2. Train GHG emissions can be found in Table D.27.

GHG emissions were divided up between the different air districts that the trains pass through on the way to the facility. All emissions are below the applicable thresholds in other districts.

Off-Road Equipment

The methodology for calculating Project-related GHG emissions from off-road equipment was the same as for CAP emissions. As previously stated, the facility has committed to converting its forklifts and yard tractor from diesel-powered to electric-powered. Post-Project electricity consumption captures the usages from the anticipated 12 electric forklifts, 3 electric yard tractors, 14 electric delivery trucks and 6 electric box trucks. See Section 3.2.2 for details.

Emissions from Water Usage

Emissions that will result from the increased water usage at the facility were calculated in CalEEMod using default emission factors. Per Table 1.1 in the Project Description, the Project is expected to increase the water needs of the facility by 255 gallons per minute. Emissions from increases in water usage are presented in Table D.32.

Emissions from Solid Waste Disposal

Emissions that will result from the increased waste disposal at the facility were also calculated in CalEEMod using default emission factors. The amount of non-hazardous waste generated in 2020 was obtained from Frito-Lay waste logs. To estimate waste amounts after Project implementation, this value was scaled up based on the expected increased facility capacity. The incremental amount of waste disposed is the difference between the future and present waste totals. As such, the facility is expected to generate an additional 105 tons of non-hazardous waste per year as a result of this Project. These emissions are shown in Table D.33.

Total Operational GHG Emissions from Non-Permitted Sources and Activities

As detailed above, the incremental GHG emissions resulting from Project implementation include emissions from area sources, electricity usage, natural gas usage, mobile sources (passenger cars, trucks, trains, off-road equipment), water usage, and solid waste disposal.

²² Emission Factors for Locomotives. Available: https://nepis.epa.gov/Exe/ZyPDF.cqi/P100500B.PDF?Dockey=P100500B.PDF. Accessed: December 2021.

²³ Emission Factors for Greenhouse Gas Inventories. Available: https://www.epa.gov/sites/production/files/2015-07/documents/emission-factors 2014.pdf. Accessed: December 2021.

Contributions from each of these sources are presented in Table D.35 and summarized below.

Table 4.3: Operational GHG Emissions from Non-Permitted Equipment

	Incremental Project Emissions (MT/year)			
	Total CO ₂	CH ₄	N ₂ O	CO₂e
Area Sources	0.0	0.0	0.0	0.0
Electricity Usage	11,319	1.8	0.2	11,430
Natural Gas Usage	5,138	0.1	0.1	5,168
Mobile Emissions	-101	-1.8	-0.4	-272
Water Usage	203	7.8	0.2	454
Solid Waste Disposal	21	1.3	0.0	53
Totals	16,580	9.2	0.1	16,833

4.3 Greenhouse Gas Impact Analysis

CEQA Guidelines on GHG Emissions

Per Appendix G of the CEQA Guidelines, the air quality impacts of a project would be significant if the project would:

- a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment, or;
- b. Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases.²⁴

SJVAPCD Guidance

In December 2009, the SJVAPCD adopted a Climate Change Action Plan..²⁵ Per this plan, Projects that are not exempt from the requirements of CEQA can be determined to have a less than significant individual and cumulative impact for GHG emissions in three ways.

First, the facility can demonstrate Project compliance with the District's approved Best Performance Standards (BPS). The District has compiled a list of BPS for stationary sources. If the Project can show that the stationary sources in question are following guidance as outlined in the corresponding BPS, then that source will have a less than significant impact.

Next, the facility can prove that Project elements are complying with approved GHG emission reduction plans or GHG mitigation programs. Such plans must be specified in law and

²⁴ CEQA Appendix G: Environmental Checklist Form. Available: https://resources.ca.gov/CNRALegacyFiles/ceqa/docs/ab52/final-approved-appendix-G.pdf. Accessed: December 2021.

²⁵ SJVAPCD Final Staff Report – Addressing Greenhouse Gas Emissions Impacts Under CEQA. Available: http://www.valleyair.org/Programs/CCAP/12-17-09/1%20CCAP%20-%20FINAL%20CEQA%20GHG%20Staff%20Report%20-%20Dec%2017%202009.pdf. Accessed: December 2021.

supported by a CEQA compliant environmental review document adopted by the lead agency.

Finally, the Project can quantify its GHG emissions and demonstrate that these project-specific emissions would be reduced or mitigated by at least 29% compared to a Business as Usual (BAU) approach. If the Project is achieving at least a 29% emission reduction from the BAU case, then the Project would be determined to have a less than significant impact for GHG.

Project Approach to Significance

For purposes of demonstrating that the Project will not have a significant impact, a hybrid approach was used. This section demonstrates compliance with applicable BPS and proves consistency with the several key GHG emission reduction plans and legislation listed in Section 4.3.1.

4.3.1 Regulatory Framework

Federal

Clean Air Act

In April 2007, in *Massachusetts v. EPA*, the U.S. Supreme Court directed the Administrator of the EPA to determine whether GHG emissions from new motor vehicles cause or contribute to air pollution that may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. In making these decisions, the EPA Administrator was directed to follow the language of Section 202(a) of the Clean Air Act (CAA). In December 2009, the Administrator signed a final rule with two distinct findings regarding GHGs under Section 202(a) of the CAA:

- Elevated concentrations of GHGs—CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆—in the atmosphere threaten the public health and welfare of current and future generations. This is referred to as the "endangerment finding."
- The combined emissions of GHGs—CO₂, CH₄, N₂O, and HFCs—from new motor vehicles and new motor vehicle engines contribute to the GHG air pollution that endangers public health and welfare. This is referred to as the "cause or contribute finding."

These two findings were necessary to establish the foundation for regulation of GHGs from new motor vehicles as air pollutants under the CAA.

State

Executive Order S-03-05

In 2005, Governor Schwarzenegger issued Executive Order (EO) S-3-05, which identifies state-wide GHG emission reduction targets to achieve long-term climate stabilization as follows:

- Reduce GHG emissions to 1990 levels by 2020; and
- Reduce GHG emissions to 80 percent below 1990 levels by 2050.

In response to EO S-3-05, California Environmental Protection Agency (CalEPA) created the Climate Action Team (CAT), which in March 2006 published the Climate Action Team Report

(the "2006 CAT Report"). ²⁶ The 2006 CAT Report identified a recommended list of strategies that the State could pursue to reduce GHG emissions. These are strategies that could be implemented by various State agencies to ensure that the emission reduction targets in EO S-3-05 are met and can be met with existing authority of the State agencies. The strategies include, but are not limited to, the reduction of passenger and light-duty truck emissions, the reduction of idling times for diesel trucks, an overhaul of shipping technology/infrastructure, increased use of alternative fuels, increased recycling, and landfill methane capture.

AB 32, the Global Warming Solutions Act

Assembly Bill (AB) 32 (Nunez, 2006), the California Global Warming Solutions Act of 2006, was enacted after considerable study and expert testimony before the Legislature. The heart of AB 32 is the requirement that state-wide GHG emissions be reduced to 1990 levels by 2020. In order to achieve this reduction mandate, AB 32 requires California Air Resources Board to adopt rules and regulations in an open public process that achieve the maximum technologically feasible and cost-effective GHG reductions.

In response to these requirements, CARB adopted the *Climate Change Scoping Plan: A Framework for Change* (2008 Scoping Plan) in accordance with Health & Safety Code Section 38561. During the development of the 2008 Scoping Plan, CARB created a planning framework that is comprised of eight emissions sectors: (1) transportation; (2) electricity; (3) commercial and residential; (4) industry; (5) recycling and waste; (6) high global warming potential (GWP) gases; (7) agriculture; and, (8) forest net emissions. The 2008 Scoping Plan establishes an overall framework for the measures that will be adopted to reduce California's GHG emissions from the eight emissions sectors to 1990 levels by 2020.

In November 2017, CARB published California's 2017 Climate Change Scoping Plan (2017 Scoping Plan), which was subsequently adopted by CARB's Board in December 2017. The 2017 Scoping Plan identifies CARB's strategy for achieving the State's 2030 GHG target.

Key elements of CARB's GHG reduction plan that are relevant to this analysis include:

- Achieving a mix of 50 percent for energy generation from renewable sources;
- Establishing targets for transportation-related GHG emissions, particularly by increasing zero emission vehicle fleets and regulating heavy-heavy duty truck emissions; and
- Implementing an extended, more stringent Cap-and-Trade Program.

Assembly Bill 1493

AB 1493 required CARB to adopt regulations to reduce GHG emissions from non-commercial passenger vehicles and light-duty trucks for model years 2009–2016. CARB obtained a waiver from the USEPA that allows for implementation of these regulations notwithstanding possible federal pre-emption concerns.

Greenhouse Gas Analysis

²⁶ California Environmental Protection Agency Climate Action Team Report to Governor Schwarzenegger and the Legislature. Available: http://s3-us-west-2.amazonaws.com/ucldc-nuxeo-ref-media/0bdec21c-ca2b-4f4d-9e11-35935ac4cf5f. Accessed: December 2021.

²⁷ California's 2017 Climate Change Scoping Plan. Available: https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf. Accessed: December 2021.

Executive Order S-01-07

EO S-1-07, as issued by Governor Schwarzenegger, called for a 10 percent or greater reduction in the average fuel carbon intensity for transportation fuels in California regulated by CARB by 2020. In response, CARB approved the Low Carbon Fuel Standard (LCFS) regulations in 2009, which became fully effective in April 2010. Thereafter, a lawsuit was filed challenging CARB's adoption of the regulations; and, in 2013, a court order was issued compelling CARB to remedy substantive and procedural defects of the LCFS adoption process under CEQA. ²⁸ However, the court allowed implementation of the LCFS to continue pending correction of the identified defects. In September 2015, CARB re-adopted the LCFS regulations. The LCFS would reduce GHG emissions by reducing the carbon intensity of transportation fuels used in California by at least 10% by 2020 and, as most recently amended in 2018, by at least 20% by 2030.

Regional

SJVAPCD Guidance

SJVAPCD manages air quality in the San Joaquin Valley Air Basin (SJVAB). The primary role of SJVAPCD is to develop plans, rules, and regulations as well as implement control measures in the SJVAB to control air pollution. SJVAPCD adopted a Climate Change Action Plan (CCAP) to identify strategies to reduce GHG emissions in the SJVAB and evaluate Project significance. More details on this legislation can be found in Section 4.3.

Local

Stanislaus County Air Quality Conformity Analysis

The Stanislaus Council of Governments (StanCOG) is the designated Metropolitan Planning Organization (MPO) for Stanislaus County. It is responsible for regional transportation planning. As such, StanCOG also prepares conformity analyses. The 2014 Air Quality Conformity Analysis describes ways that Projects within the County can comply. This analysis suggests that transportation control measures be followed in order to ensure compliance with the Clean Air Act, and that County-approved emission estimation models be used in Project calculations.

4.3.2 Project Inventory in Context

BPS

The boiler that will be installed as part of the Project will need to comply with a SJVAPCD best performance standard (BPS). While the facility plans to install a boiler, the specific boiler type has not yet been selected. As such, the make, model, and pressure rating of this boiler are not currently known. SJVAPCD lists BPS for boilers based on the equipment's rated steam pressure, so it is currently unclear which BPS is applicable to this boiler. Once the boiler type is selected, the facility will ensure that it will meet the required criteria in order to comply with the applicable BPS.

Consistency Analysis

By complying with several key elements of the legislation outlined above, this Project demonstrates that its overall GHG emission impact will be less than significant.

²⁸ POET, LLC v. CARB (2013) 217 Cal.App.4th 1214.

As shown in Table 4.2, increased natural gas usage is a key driver of emissions as a result of the Project. However, per CARB's Climate Change Scoping Plan, these potential emissions will be covered under CARB's Cap-and-Trade program. As such, the natural gas usage at the facility is already accounted for and regulated in accordance with AB 32. Transportation fuels are also covered under Cap-and-Trade, so the fuels used to power the facility's current truck fleet are also regulated in accordance with CARB's Scoping Plan. The facility's plan to reduce their mobile emissions demonstrates compliance with the Clean Air Act, Executive Order S-03-05, Executive Order S-01-07, and CARB's Climate Change Scoping Plan. Reducing impacts from mobile sources is a key factor in these regulations. In particular, these regulations recommend decarbonizing the transportation sector, increasing usage of alternative fuels, and regulating heavy-duty truck fleets. In accordance with all of these items, Frito-Lay is aggressively pursuing alternative vehicle technologies for its heavy-duty fleet. This is reflected in both their current HHDT fleet, which is comprised of a large percentage of natural gas trucks, and their future HHDT fleet, which will consist of only natural gas and battery electric trucks. The Project site plan includes electric vehicle (EV) parking spaces for employees as well as charging states for the facility's Tesla Tractors. By utilizing a cleaner truck fleet for loads and deliveries, the facility will ensure compliance with federal and state regulations that focus on mobile emissions, and emissions from heavy-duty trucks in particular.

In addition to on-road mobile sources, the facility plans to mitigate potential GHG emissions through additional methods of electrification. As previously discussed in Section 4.2.2, the facility current operates diesel-powered off-road equipment that include forklifts and one yard tractor. Tailpipe emissions from these equipment will effectively be eliminated when the facility replaces them with electric-powered equipment. Additionally, the facility is committed to reducing building energy intensity by installing on-site solar carports and solar panels, which total approximately 7.1 MW of power generation for the facility.

The facility is also complying with state and local legislation by submitting a quantitative greenhouse gas inventory for this Project. This inventory has been compiled following guidance from AB 1493, EO S-01-07, and Stanislaus County Air Quality Conformity Analysis. Emissions from construction and operation were quantified using emission factors and methodology obtained from CalEEMod and EMFAC wherever possible. These California-specific models account for regulatory requirements in their assumptions. For example, requirements resulting from AB 1493, saying that non-commercial passenger vehicles are subject to stricter emission standards, and EO S-01-07, which mandates a reduction in the carbon intensity of transportation fuels, are already incorporated into EMFAC. Note that in both cases, the most recently approved model versions were used in all calculations. Therefore, by using state-approved models to quantify emissions, the Project inventory has been calculated while taking legislative action into consideration.

Impact Determination

Overall, the individual and cumulative GHG impacts of this Project are expected to be less than significant. While the Project could represent a small increase in GHG emissions when compared to the existing conditions on the site, the Project will not conflict with any state-wide emission reduction targets. Further, there are no clear Project alternatives which would be more effective in reducing the Project's impact.

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This Project will comply with all applicable BPS and demonstrate consistency with the regulations outlined in Section 4.3.1. Therefore, per SJVAPCD's CEQA guidance, the impacts from this Project will be less than significant.

5. **DETERMINATION**

5.1 Summary

The proposed Project was analyzed and found to have **less than significant** impacts in the areas of air quality and greenhouse gases. CAP emissions are under below SJVAPCD thresholds for construction, permitted operation, and non-permitted operation. Additionally, GHG emissions are consistent with federal, state, and local legislation, which indicates compliance per SJVAPCD Guidelines. No further analysis of these areas is required.

Determination Ramboll

6. PREPARERS

Scott Weaver

Principal-in-Charge

Ramboll US Corporation

350 S. Grand Ave., Suite 2800

Los Angeles, CA 90071

Preparers Ramboll

Air Quality and Greenhouse Gas Analysis Frito-Lay Modesto, California

APPENDIX A CONSTRUCTION TABLES

Table A.1. Project Land Use

Frito-Lay, Inc. Modesto, California

Proposed Project ¹			CalEEMod® Analysis²				
Land Use	Land Use Unit Amount	Size Metric	Land Use Category		Land Use Unit Amount	Size Metric	Acreage
Manufacturing and Production Operation	189,000	sqft	Industrial	Manufacturing	189	1000 sqft	4
Warehouse Operation	66,000	sqft	Industrial	Refrigerated Warehouse - Rail	66	1000 sqft	2
Asphalt Paving	284,469	sqft	Parking	Other Asphalt Surfaces	284	1000 sqft	32
Concrete Paving	35,107	sqft	Parking	Other Non-Asphalt Surfaces	35	1000 sqft	4

Notes:

Abbreviations:

 $\label{eq:CaleEMod} \begin{tabular}{ll} $\text{California Emissions Estimator Model} \\ $\text{sqft - square feet} \\ $\text{sy - square yards} \\ \end{tabular}$

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¹ Project conditions based on Project Description and data request response.

² Land uses as defined in CalEEMod[®] v2020.4.0.

Table A.2. Project Construction Assumptions

Frito-Lay, Inc.

Modesto, California

Construction Phase Name ¹	Phase Type	OffRoad Equipment Type ²	Equipment Unit Amount ²
D - m - 192 - m		Concrete/Industrial Saws	2
Demolition Paving/Underground	Demolition	Excavators	6
r aving, onaci ground		Rubber Tired Dozers	4
Site Preparation	Site Preparation	Rubber Tired Dozers	6
Site Preparation	Site Preparation	Tractors/Loaders/Backhoes	8
		Excavators	4
	Grading	Graders	2
Grading		Rubber Tired Dozers	2
		Scrapers	4
		Tractors/Loaders/Backhoes	4
	Building Construction	Cranes	2
		Forklifts	6
Building Construction		Generator Sets	2
		Tractors/Loaders/Backhoes	6
		Welders	2
		Concrete/Industrial Saws	1
Demolition Precast	Demolition	Excavators	3
		Rubber Tired Dozers	2
		Pavers	4
Paving	Paving	Paving Equipment	4
		Rollers	4
Architectural Coating	Architectural Coating	Air Compressors	2

Notes:

Abbreviation:

CalEEMod® - California Emissions Estimator Model

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 $^{^{\}rm 1}\,{\rm Project}$ specific construction schedule.

 $^{^2}$ Equipment type and amount based on CalEEMod $^{\! @}$ v2020.4.0 defaults.

Table A.3. Material Moved During Construction

Frito-Lay, Inc. Modesto, California

Construction Phase ¹	Material Imported	Material Exported	Units
Grading	29,632	76,336	су

Construction Phase ¹	Demolished Material		
Demolition	14,160	tons of debris	

Notes:

Abbreviations:

cy - cubic yards

sqft - square feet

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¹ Based on Project data request response.

Table A.4. Project Construction Trip Information

Frito-Lay, Inc. Modesto, California

Phase	Worker Trips ¹ (trips/day)	Vendor Trips ¹ (trips/day)	Hauling Trips ¹ (trips/phase)
Demolition	45	0	1,400
Site Preparation	36	0	0
Grading	35	0	13,246
Building Construction	242	94	0
Paving	30	0	0
Architectural Coating	49	0	0

Notes:

Abbreviations:

CalEEMod® - California Emissions Estimator Model

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Trip rates calculated based on CalEEMod® v2020.4.0 defaults.®

Table A.5. SJVAPCD Air Quality Significance Thresholds

Frito-Lay, Inc. Modesto, California

		Operational Emissions (tons/year) ¹		
Pollutant	Construction Emissions (tons/year) ¹	Permitted Equipment and Activities	Non-Permitted Equipment and Activities	
Reactive Organic Gases (ROG)	10	10	10	
Oxides of Nitrogen (NO _x)	10	10	10	
Carbon Monoxide (CO)	100	100	100	
Oxides of Sulfur (SO _x)	27	27	27	
Respirable Particulate Matter (PM ₁₀)	15	15	15	
Fine Particulate Matter (PM _{2.5})	15	15	15	

Notes:

Abbreviations:

CAAQS - California Ambient Air Quality Standards

CCR - California Code of Regulations

CO - carbon monoxide

NAAQS - National Ambient Air Quality Standards

 $\ensuremath{\text{NO}_{\kappa}}$ - oxides of nitrogen

 PM_{10} - particulate matter less than 10 microns in diameter

 $\ensuremath{\mathsf{PM}}_{2.5}$ - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SJVAPCD - San Joaquin Valley Air Pollution Control District

 SO_{x} - oxides of sulfur

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¹ SJVAPCD Air Quality Thresholds of Significance - Criteria Pollutants. Available at: http://www.valleyair.org/transportation/0714-GAMAQI-Criteria-Pollutant-Thresholds-of-Significance.pdf. Accessed: December 2021.

Table A.6. Project Maximum Annual CAP Emissions

Frito-Lay, Inc. Modesto, California

	Maximum Annual Emissions (tons/year)					
	ROG	СО	SO ₂	NO _X	Total PM ₁₀	Total PM _{2.5}
Maximum Overall	1.16	4.22	0.01	6.22	0.93	0.52
SJVAPCD Threshold ¹	10	100	27	10	15	15
Above Threshold?	No	No	No	No	No	No

Notes:

Abbreviations:

CAP - criteria air pollutant

CO - carbon monoxide

NO_x - oxides of nitrogen

 ${\rm PM}_{10}$ - particulate matter less than 10 microns in diameter

 $\mbox{PM}_{\mbox{\scriptsize 2.5}}$ - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SJVAPCD - San Joaquin Valley Air Pollution Control District

 SO_x - oxides of sulfur

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¹ SJVAPCD Air Quality Thresholds of Significance - Criteria Pollutants. Available at: http://www.valleyair.org/transportation/0714-GAMAQI-Criteria-Pollutant-Thresholds-of-Significance.pdf. Accessed: December 2021.

Table A.7. Project Maximum Annual GHG Emissions

Frito-Lay, Inc. Modesto, California

	Maximum Annual Emissions (MT/year)			
	Total CO ₂ CH ₄ N ₂ O CO ₂ e			
Maximum Overall	993	0.17	0.06	1,013

Abbreviations:

CH₄ - methane

 CO_2 - carbon dioxide

CO₂e - carbon dioxide equivalents

GHG - greenhouse gas

MT - metric ton

N₂O - nitrous oxide

SJVAPCD - San Joaquin Valley Air Pollution Control District

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Air Quality and Greenhouse Gas Analysis Frito-Lay Modesto, California

APPENDIX B CALEEMOD, EMFAC, AND OFFROAD OUTPUT FILES

Air Quality and Greenhouse Gas Analysis Frito-Lay Modesto, California

APPENDIX B.1 CALEEMOD OUTPUT FILES

CalEEMod Version: CalEEMod.2020.4.0 Page 1 of 80 Date: 12/15/2021 11:26 AM

Modesto Construction Emissions - Approved Project - Stanislaus County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Modesto Construction Emissions - Approved Project

Stanislaus County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	127.00	1000sqft	2.92	127,000.00	0
Refrigerated Warehouse-Rail	39.00	1000sqft	0.90	39,000.00	0
Other Asphalt Surfaces	222.93	1000sqft	5.12	222,932.00	0
Other Non-Asphalt Surfaces	24.23	1000sqft	0.56	24,232.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	46
Climate Zone	3			Operational Year	2022

Utility Company Modesto Irrigation District

 CO2 Intensity
 452.98
 CH4 Intensity
 0.033
 N2O Intensity
 0.004

 (lb/MWhr)
 (lb/MWhr)
 (lb/MWhr)
 (lb/MWhr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Construction schedule provided in a data request

Trips and VMT - Consistent with previous runs.

Demolition -

Grading - Data provided by the facility.

Architectural Coating -

Vehicle Trips - Only calculating construction emissions in this run.

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vehicle Emission Factors - Consistent with previous runs.

Vehicle Emission Factors - Consistent with previous runs.

Vehicle Emission Factors - Consistent with previous runs.

Consumer Products - Only evaluating construction emissions.

Area Coating - Only evaluating construction emissions.

Energy Use - Only calculating construction emissions in this run.

Water And Wastewater - Only calculating construction emissions in this run.

Solid Waste - Only calculating construction emissions in this run.

Construction Off-road Equipment Mitigation -

Fleet Mix - Consistent with previous runs.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	83000	0
tblAreaCoating	Area_Nonresidential_Interior	249000	0
tblAreaCoating	Area_Parking	14830	0
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	230.00	126.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	70.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	10.00	70.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	2.70	0.00
tblEnergyUse	LightingElect	2.45	0.00
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tblEnergyUse	T24E	1.75	0.00
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tblFleetMix	HHD	0.02	0.09
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tblFleetMix	LHD2	8.4000e-003	5.3520e-003
tblFleetMix	LHD2	8.4000e-003	5.3520e-003
tblFleetMix	LHD2	8.4000e-003	5.3520e-003

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tblFleetMix	MCY	0.03	4.6330e-003
tblFleetMix	MCY	0.03	4.6330e-003
tblFleetMix	MCY	0.03	4.6330e-003
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tblFleetMix	MDV	0.17	0.12
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tblFleetMix	MDV	0.17	0.12
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tblFleetMix	MH	4.2990e-003	9.1100e-004
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tblFleetMix	MHD	0.01	0.03
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tblFleetMix	UBUS	3.0600e-004	1.1190e-003
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tblGrading	AcresOfGrading	105.00	0.00
tblGrading	MaterialExported	0.00	43,400.00
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tblLandUse	LandUseSquareFeet	24,230.00	24,232.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblSolidWaste	SolidWasteGenerationRate	157.48	0.00
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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8890e-003	8.8100e-003

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tblVehicleEF	HHD	0.01	0.06
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.00	4.5000e-005
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tblVehicleEF	HHD	1.4000e-005	1.5500e-004
tblVehicleEF	HHD	1.0000e-006	0.03

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tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	HHD HHD HHD HHD	0.02 7.7620e-003 0.00 7.07	0.01 0.10
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	HHD HHD	0.00	0.10
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	HHD		
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF		7.07	2.07
tblVehicleEF tblVehicleEF tblVehicleEF	HHD		3.87
tblVehicleEF tblVehicleEF	<u>.</u>	0.31	0.63
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	HHD	1,245.41	5,027.65
tblVehicleEF	HHD	1,406.07	1,567.25
<u> </u>	HHD	0.01	2.95
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tblVehicleEF	HHD	2.12	20.53
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tblVehicleEF			
tbi v etilicle Et	HHD	0.01	0.05
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tblVehicleEF	LDA	0.27	0.09
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tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.18	0.07
tblVehicleEF	LDA	1.5950e-003	1.8570e-003
tblVehicleEF	LDA	1.8990e-003	2.3000e-003
tblVehicleEF	LDA	1.4690e-003	1.7110e-003
tblVehicleEF	LDA	1.7460e-003	2.1150e-003
tblVehicleEF	LDA	0.16	0.12
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.11	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.20	0.07
tblVehicleEF	LDA	2.8940e-003	2.9170e-003
tblVehicleEF	LDA	5.3200e-004	5.9800e-004
tblVehicleEF	LDA	0.16	0.12
tblVehicleEF	LDA	0.13	0.13

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tblVehicleEF	LDA	0.11	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.22	0.07
tblVehicleEF	LDA	2.4650e-003	4.2890e-003
tblVehicleEF	LDA	0.06	6.9310e-003
tblVehicleEF	LDA	0.62	0.56
tblVehicleEF	LDA	2.72	1.53
tblVehicleEF	LDA	257.53	255.65
tblVehicleEF	LDA	55.45	58.02
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.22	0.09
tblVehicleEF	LDA	1.5950e-003	1.8570e-003
tblVehicleEF	LDA	1.8990e-003	2.3000e-003
tblVehicleEF	LDA	1.4690e-003	1.7110e-003
tblVehicleEF	LDA	1.7460e-003	2.1150e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	9.7140e-003	0.01
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.29	0.09
tblVehicleEF	LDA	2.5480e-003	2.5600e-003
tblVehicleEF	LDA	5.4900e-004	6.0600e-004
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.03	0.04

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th/PehicleEF LDA 0.31 0.10 tb/PehicleEF LDT1 7.7460e-003 0.01 tb/PehicleEF LDT1 0.09 0.02 tb/PehicleEF LDT1 1.50 1.60 tb/PehicleEF LDT1 2.57 4.05 tb/PehicleEF LDT1 319.07 331.83 tb/PehicleEF LDT1 66.99 72.74 tb/PehicleEF LDT1 0.13 0.16 tb/PehicleEF LDT1 0.32 0.23 tb/PehicleEF LDT1 2.3800e-003 3.0180e-003 tb/PehicleEF LDT1 2.9220e-003 3.9590e-003 tb/PehicleEF LDT1 2.9220e-003 3.9590e-003 tb/PehicleEF LDT1 2.9220e-003 3.9590e-003 tb/PehicleEF LDT1 2.8670e-003 3.6410e-003 tb/PehicleEF LDT1 0.24 0.21 tb/PehicleEF LDT1 0.24 0.21 tb/PehicleEF LDT1 0.14 0.14 <tr< th=""><th></th><th></th><th></th><th></th></tr<>				
tbl/ehicleEF LDT1 0.09 0.02 tbl/ehicleEF LDT1 1.50 1.60 tbl/ehicleEF LDT1 2.57 4.05 tbl/ehicleEF LDT1 319.07 331.83 Db/ehicleEF LDT1 66.98 72.74 tbl/ehicleEF LDT1 0.13 0.16 tbl/ehicleEF LDT1 0.32 0.23 tbl/ehicleEF LDT1 2.8800e-003 3.0180e-003 tbl/ehicleEF LDT1 2.9820e-003 3.590e-003 tbl/ehicleEF LDT1 2.1910e-003 2.7790e-003 tbl/ehicleEF LDT1 2.6870e-003 3.6410e-003 tbl/ehicleEF LDT1 0.21 0.21 0.21 tbl/ehicleEF LDT1 0.29 0.40 0.14 0.14 0.14 tbl/ehicleEF LDT1 0.13 0.23 0.23 0.23 0.23 0.23 tbl/ehicleEF LDT1 0.13 0.23 0.33 0.33990e-003 0.03 0.03 <td>tblVehicleEF</td> <td>LDA</td> <td>0.31</td> <td>0.10</td>	tblVehicleEF	LDA	0.31	0.10
tbVehicleEF LDT1 1.50 1.60 tbVehicleEF LDT1 2.57 4.05 tbVehicleEF LDT1 319.07 331.83 tbVehicleEF LDT1 66.98 72.74 tbVehicleEF LDT1 0.13 0.16 tbVehicleEF LDT1 0.32 0.23 tbVehicleEF LDT1 2.3800e-003 3.0180e-003 tbVehicleEF LDT1 2.9220e-003 3.9590e-003 tbVehicleEF LDT1 2.1910e-003 3.6410e-003 tbVehicleEF LDT1 2.6870e-003 3.6410e-003 tbVehicleEF LDT1 0.21 0.21 tbVehicleEF LDT1 0.29 0.40 tbVehicleEF LDT1 0.14 0.14 tbVehicleEF LDT1 0.13 0.23 tbVehicleEF LDT1 0.13 0.23 tbVehicleEF LDT1 0.48 0.29 tbVehicleEF LDT1 0.48 0.29 tbVehicleEF	tblVehicleEF	LDT1	7.7460e-003	0.01
tblVehiclaEF LDT1 2.57 4.05 tblVehiclaEF LDT1 319.07 331.83 tblVehiclaEF LDT1 66.98 72.74 tblVehiclaEF LDT1 0.13 0.16 tblVehiclaEF LDT1 0.32 0.23 tblVehiclaEF LDT1 2.3800e-003 3.0180e-003 tblVehiclaEF LDT1 2.9220e-003 3.9590e-003 tblVehiclaEF LDT1 2.1910e-003 2.7790e-003 tblVehiclaEF LDT1 2.6870e-003 3.6410e-003 tblVehiclaEF LDT1 0.21 0.21 tblVehiclaEF LDT1 0.29 0.40 tblVehiclaEF LDT1 0.14 0.14 tblVehiclaEF LDT1 0.13 0.23 tblVehiclaEF LDT1 0.48 0.29 tblVehiclaEF LDT1 0.48 0.29 tblVehiclaEF LDT1 0.48 0.29 tblVehiclaEF LDT1 0.6300e-004 7.9900e-004	tblVehicleEF	LDT1	0.09	0.02
tblVehideEF LDT1 319.07 331.83 tblVehideEF LDT1 66.98 72.74 tblVehideEF LDT1 0.13 0.16 tblVehideEF LDT1 0.32 0.23 tblVehideEF LDT1 2.3800e-003 3.0180e-003 tblVehideEF LDT1 2.9220e-003 3.9590e-003 tblVehideEF LDT1 2.1910e-003 2.7790e-003 tblVehideEF LDT1 2.6870e-003 3.6410e-003 tblVehideEF LDT1 0.21 0.21 tblVehideEF LDT1 0.29 0.40 tblVehideEF LDT1 0.14 0.14 tblVehideEF LDT1 0.03 0.03 tblVehideEF LDT1 0.48 0.29 tblVehideEF LDT1 3.1570e-003 3.3390e-003 tblVehideEF LDT1 3.1570e-003 3.3390e-003 tblVehideEF LDT1 0.21 0.21 0.21 tblVehideEF LDT1 0.29 0.40	tblVehicleEF	LDT1	1.50	1.60
tblVehicleEF LDT1 66.98 72.74 tblVehicleEF LDT1 0.13 0.16 tblVehicleEF LDT1 0.32 0.23 tblVehicleEF LDT1 2.3800e-003 3.0180e-003 tblVehicleEF LDT1 2.9220e-003 3.9590e-003 tblVehicleEF LDT1 2.1910e-003 2.7790e-003 tblVehicleEF LDT1 2.6870e-003 3.6410e-003 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.03 0.03 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.48 0.29 tblVehicleEF LDT1 3.1570e-003 3.3390e-003 tblVehicleEF LDT1 6.6300e-004 7.9900e-004 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.05 0.05	tblVehicleEF	LDT1	2.57	4.05
tblVehicleEF LDT1 0.13 0.16 tblVehicleEF LDT1 0.32 0.23 tblVehicleEF LDT1 2.3800e-003 3.0180e-003 tblVehicleEF LDT1 2.9220e-003 3.9590e-003 tblVehicleEF LDT1 2.1910e-003 2.7790e-003 tblVehicleEF LDT1 2.6870e-003 3.6410e-003 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.03 0.03 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.48 0.29 tblVehicleEF LDT1 3.1570e-003 3.3390e-003 tblVehicleEF LDT1 6.6300e-004 7.9900e-004 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.05 0.05 <	tblVehicleEF	LDT1	319.07	331.83
tbl/ehicleEF LDT1 0.32 0.23 tbl/ehicleEF LDT1 2.3800e-003 3.0180e-003 tbl/ehicleEF LDT1 2.9220e-003 3.9590e-003 tbl/ehicleEF LDT1 2.1910e-003 2.7790e-003 tbl/ehicleEF LDT1 2.6870e-003 3.6410e-003 tbl/ehicleEF LDT1 0.21 0.21 tbl/ehicleEF LDT1 0.29 0.40 tbl/ehicleEF LDT1 0.14 0.14 tbl/ehicleEF LDT1 0.03 0.03 tbl/ehicleEF LDT1 0.13 0.23 tbl/ehicleEF LDT1 0.48 0.29 tbl/ehicleEF LDT1 0.48 0.29 tbl/ehicleEF LDT1 0.48 0.29 tbl/ehicleEF LDT1 0.48 0.29 tbl/ehicleEF LDT1 0.6300e-004 7.9900e-003 tbl/ehicleEF LDT1 0.21 0.21 tbl/ehicleEF LDT1 0.29 0.40 <t< td=""><td>tblVehicleEF</td><td>LDT1</td><td>66.98</td><td>72.74</td></t<>	tblVehicleEF	LDT1	66.98	72.74
tblVehicleEF LDT1 2,3800e-003 3,0180e-003 tblVehicleEF LDT1 2,9220e-003 3,9590e-003 tblVehicleEF LDT1 2,1910e-003 2,7790e-003 tblVehicleEF LDT1 2,6870e-003 3,6410e-003 tblVehicleEF LDT1 0,21 0,21 tblVehicleEF LDT1 0,29 0,40 tblVehicleEF LDT1 0,14 0,14 tblVehicleEF LDT1 0,03 0,03 tblVehicleEF LDT1 0,13 0,23 tblVehicleEF LDT1 0,48 0,29 tblVehicleEF LDT1 3,1570e-003 3,3390e-003 tblVehicleEF LDT1 0,21 0,21 tblVehicleEF LDT1 0,29 0,40 tblVehicleEF LDT1 0,14 0,14 tblVehicleEF LDT1 0,14 0,14 tblVehicleEF LDT1 0,13 0,23 tblVehicleEF LDT1 0,13 0,23 <t< td=""><td>tblVehicleEF</td><td>LDT1</td><td>0.13</td><td>0.16</td></t<>	tblVehicleEF	LDT1	0.13	0.16
tbl/ehicleEF LDT1 2.9220e-003 3.9590e-003 tbl/ehicleEF LDT1 2.1910e-003 2.7790e-003 tbl/ehicleEF LDT1 2.6870e-003 3.6410e-003 tbl/ehicleEF LDT1 0.21 0.21 tbl/ehicleEF LDT1 0.29 0.40 tbl/ehicleEF LDT1 0.14 0.14 tbl/ehicleEF LDT1 0.03 0.03 tbl/ehicleEF LDT1 0.48 0.29 tbl/ehicleEF LDT1 3.1570e-003 3.3390e-003 tbl/ehicleEF LDT1 6.6300e-004 7.9900e-004 tbl/ehicleEF LDT1 0.21 0.21 tbl/ehicleEF LDT1 0.29 0.40 tbl/ehicleEF LDT1 0.14 0.14 tbl/ehicleEF LDT1 0.05 0.05 tbl/ehicleEF LDT1 0.13 0.23 tbl/ehicleEF LDT1 0.13 0.23 tbl/ehicleEF LDT1 0.13 0.23 <t< td=""><td>tblVehicleEF</td><td>LDT1</td><td>0.32</td><td>0.23</td></t<>	tblVehicleEF	LDT1	0.32	0.23
tbVehicleEF LDT1 2.1910e-003 2.7790e-003 tbVehicleEF LDT1 2.6870e-003 3.6410e-003 tbVehicleEF LDT1 0.21 0.21 tbVehicleEF LDT1 0.29 0.40 tbVehicleEF LDT1 0.14 0.14 tbVehicleEF LDT1 0.03 0.03 tbVehicleEF LDT1 0.13 0.23 tbVehicleEF LDT1 0.48 0.29 tbVehicleEF LDT1 3.1570e-003 3.3390e-003 tbVehicleEF LDT1 6.6300e-004 7.9900e-004 tbVehicleEF LDT1 0.21 0.21 tbVehicleEF LDT1 0.14 0.14 tbVehicleEF LDT1 0.05 0.05 tbVehicleEF LDT1 0.13 0.23 tbVehicleEF LDT1 0.13 0.23 tbVehicleEF LDT1 0.05 0.05 tbVehicleEF LDT1 0.13 0.23 tbVehicleEF	tblVehicleEF	LDT1	2.3800e-003	3.0180e-003
tblVehicleEF LDT1 2.6870e-003 3.6410e-003 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.03 0.03 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.48 0.29 tblVehicleEF LDT1 0.48 0.29 tblVehicleEF LDT1 0.68300e-003 3.3390e-003 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02	tblVehicleEF	LDT1	2.9220e-003	3.9590e-003
tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.03 0.03 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.48 0.29 tblVehicleEF LDT1 3.1570e-003 3.3390e-003 tblVehicleEF LDT1 6.6300e-004 7.9900e-004 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02	tblVehicleEF	LDT1	2.1910e-003	2.7790e-003
tbl/ehicleEF LDT1 0.29 0.40 tbl/ehicleEF LDT1 0.14 0.14 tbl/ehicleEF LDT1 0.03 0.03 tbl/ehicleEF LDT1 0.13 0.23 tbl/ehicleEF LDT1 0.48 0.29 tbl/ehicleEF LDT1 3.1570e-003 3.3390e-003 tbl/ehicleEF LDT1 6.6300e-004 7.9900e-004 tbl/ehicleEF LDT1 0.21 0.21 tbl/ehicleEF LDT1 0.29 0.40 tbl/ehicleEF LDT1 0.14 0.14 tbl/ehicleEF LDT1 0.05 0.05 tbl/ehicleEF LDT1 0.13 0.23 tbl/ehicleEF LDT1 0.53 0.31 tbl/ehicleEF LDT1 8.9040e-003 0.02	tblVehicleEF	LDT1	2.6870e-003	3.6410e-003
tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.03 0.03 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.48 0.29 tblVehicleEF LDT1 3.1570e-003 3.3390e-003 tblVehicleEF LDT1 6.6300e-004 7.9900e-004 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02	tblVehicleEF	LDT1	0.21	0.21
tblVehicleEF LDT1 0.03 0.03 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.48 0.29 tblVehicleEF LDT1 3.1570e-003 3.3390e-003 tblVehicleEF LDT1 6.6300e-004 7.9900e-004 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02	tblVehicleEF	LDT1	0.29	0.40
tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.48 0.29 tblVehicleEF LDT1 3.1570e-003 3.3390e-003 tblVehicleEF LDT1 6.6300e-004 7.9900e-004 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02	tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF LDT1 0.48 0.29 tblVehicleEF LDT1 3.1570e-003 3.3390e-003 tblVehicleEF LDT1 6.6300e-004 7.9900e-004 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02	tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF LDT1 3.1570e-003 3.3390e-003 tblVehicleEF LDT1 6.6300e-004 7.9900e-004 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02	tblVehicleEF	LDT1	0.13	0.23
tblVehicleEF LDT1 6.6300e-004 7.9900e-004 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02	tblVehicleEF	LDT1	0.48	0.29
tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02	tblVehicleEF	LDT1	3.1570e-003	3.3390e-003
tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02	tblVehicleEF	LDT1	6.6300e-004	7.9900e-004
tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02	tblVehicleEF	LDT1	0.21	0.21
tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02	tblVehicleEF	LDT1	0.29	0.40
tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02	tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02	tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF LDT1 8.9040e-003 0.02	tblVehicleEF	LDT1	0.13	0.23
ļi	tblVehicleEF	LDT1	0.53	0.31
† · · · · · · · · · · · · · · · · · · ·	tblVehicleEF	LDT1	8.9040e-003	0.02
tblVehicleEF LDT1 0.08 0.02	tblVehicleEF	LDT1	0.08	0.02

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tblVehicleEF	LDT1	1.84	1.94
tblVehicleEF	LDT1	2.10	3.30
tblVehicleEF	LDT1	346.37	363.20
tblVehicleEF	LDT1	65.95	72.74
tblVehicleEF	LDT1	0.12	0.14
tblVehicleEF	LDT1	0.30	0.22
tblVehicleEF	LDT1	2.3800e-003	3.0180e-003
tblVehicleEF	LDT1	2.9220e-003	3.9590e-003
tblVehicleEF	LDT1	2.1910e-003	2.7790e-003
tblVehicleEF	LDT1	2.6870e-003	3.6410e-003
tblVehicleEF	LDT1	0.51	0.52
tblVehicleEF	LDT1	0.37	0.50
tblVehicleEF	LDT1	0.30	0.30
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.13	0.22
tblVehicleEF	LDT1	0.40	0.23
tblVehicleEF	LDT1	3.4280e-003	3.6570e-003
tblVehicleEF	LDT1	6.5300e-004	7.8500e-004
tblVehicleEF	LDT1	0.51	0.52
tblVehicleEF	LDT1	0.37	0.50
tblVehicleEF	LDT1	0.30	0.30
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.13	0.22
tblVehicleEF	LDT1	0.43	0.26
tblVehicleEF	LDT1	7.2620e-003	0.01
tblVehicleEF	LDT1	0.11	0.02
tblVehicleEF	LDT1	1.41	1.50
tblVehicleEF	LDT1	3.14	4.94
tblVehicleEF	LDT1	309.62	320.94

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tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	LDT1 LDT1 LDT1 LDT1 LDT1 LDT1 LDT1 LDT1	68.15 0.14 0.36 2.3800e-003 2.9220e-003 2.1910e-003	72.74 0.17 0.26 3.0180e-003 3.9590e-003
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	LDT1 LDT1 LDT1 LDT1	0.36 2.3800e-003 2.9220e-003	0.26 3.0180e-003
tblVehicleEF tblVehicleEF tblVehicleEF	LDT1 LDT1 LDT1	2.3800e-003 2.9220e-003	3.0180e-003
tblVehicleEF tblVehicleEF	LDT1 LDT1	2.9220e-003	
tblVehicleEF	LDT1		3.9590e-003
		2.1910e-003	
thl\/ehicleFF	LDT1		2.7790e-003
torvernoicer	<u> </u>	2.6870e-003	3.6410e-003
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.30	0.41
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.16	0.28
tblVehicleEF	LDT1	0.57	0.34
tblVehicleEF	LDT1	3.0640e-003	3.2280e-003
tblVehicleEF	LDT1	6.7400e-004	8.1500e-004
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.30	0.41
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.16	0.28
tblVehicleEF	LDT1	0.62	0.37
tblVehicleEF	LDT2	4.8240e-003	7.0580e-003
tblVehicleEF	LDT2	0.08	9.4500e-003
tblVehicleEF	LDT2	1.03	0.87
tblVehicleEF	LDT2	2.94	1.94
tblVehicleEF	LDT2	344.56	373.55
tblVehicleEF	LDT2	72.54	81.99
tblVehicleEF	LDT2	0.10	0.09
tblVehicleEF	LDT2	0.34	0.16

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tblVehicleEF	LDT2	1.6530e-003	1.8740e-003
tblVehicleEF	LDT2	1.9550e-003	2.3960e-003
tblVehicleEF	LDT2	1.5210e-003	1.7230e-003
tblVehicleEF	LDT2	1.7970e-003	2.2030e-003
tblVehicleEF	LDT2	0.11	0.08
tblVehicleEF	LDT2	0.17	0.16
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.38	0.13
tblVehicleEF	LDT2	3.4090e-003	3.7430e-003
tblVehicleEF	LDT2	7.1800e-004	8.5300e-004
tblVehicleEF	LDT2	0.11	0.08
tblVehicleEF	LDT2	0.17	0.16
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.42	0.14
tblVehicleEF	LDT2	5.5740e-003	8.0970e-003
tblVehicleEF	LDT2	0.07	7.7590e-003
tblVehicleEF	LDT2	1.28	1.07
tblVehicleEF	LDT2	2.40	1.59
tblVehicleEF	LDT2	371.37	409.70
tblVehicleEF	LDT2	71.46	81.99
tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF	LDT2	0.32	0.15
tblVehicleEF	LDT2	1.6530e-003	1.8740e-003
tblVehicleEF	LDT2	1.9550e-003	2.3960e-003
tblVehicleEF	LDT2	1.5210e-003	1.7230e-003

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tblVehicleEF	LDT2	1.7970e-003	2.2030e-003
tblVehicleEF	LDT2	0.27	0.19
tblVehicleEF	LDT2	0.20	0.19
tblVehicleEF	LDT2	0.19	0.13
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.32	0.10
tblVehicleEF	LDT2	3.6740e-003	4.1070e-003
tblVehicleEF	LDT2	7.0700e-004	8.4700e-004
tblVehicleEF	LDT2	0.27	0.19
tblVehicleEF	LDT2	0.20	0.19
tblVehicleEF	LDT2	0.19	0.13
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.35	0.11
tblVehicleEF	LDT2	4.5050e-003	6.6740e-003
tblVehicleEF	LDT2	0.09	0.01
tblVehicleEF	LDT2	0.97	0.81
tblVehicleEF	LDT2	3.57	2.35
tblVehicleEF	LDT2	335.27	361.00
tblVehicleEF	LDT2	73.76	81.99
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	0.38	0.18
tblVehicleEF	LDT2	1.6530e-003	1.8740e-003
tblVehicleEF	LDT2	1.9550e-003	2.3960e-003
tblVehicleEF	LDT2	1.5210e-003	1.7230e-003
tblVehicleEF	LDT2	1.7970e-003	2.2030e-003
tblVehicleEF	LDT2	0.04	0.03
tblVehicleEF	LDT2	0.17	0.16

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IntroversideEF				
tbl/vehicleEF LDT2 0.09 0.09 tbl/vehicleEF LDT2 0.45 0.15 tbl/vehicleEF LDT2 3.3170e-003 3.6170e-003 bl/vehicleEF LDT2 7.3000e-004 8.6000e-004 bl/vehicleEF LDT2 0.04 0.03 tbl/vehicleEF LDT2 0.17 0.16 tbl/vehicleEF LDT2 0.03 0.02 tbl/vehicleEF LDT2 0.09 0.09 tbl/vehicleEF LDT2 0.49 0.16 tbl/vehicleEF LHD1 4.2110e-003 4.5240e-003 tbl/vehicleEF LHD1 0.01 0.02 tbl/vehicleEF LHD1 0.01 0.02 tbl/vehicleEF LHD1 0.01 0.02 tbl/vehicleEF LHD1 0.18 0.13 tbl/vehicleEF LHD1 0.18 0.13 tbl/vehicleEF LHD1 9.70 9.59 tbl/vehicleEF LHD1 9.70 9.59 tbl/vehicle	tblVehicleEF	LDT2	0.03	0.02
tbl/ehicleEF LDT2 0.45 0.15 tbl/ehicleEF LDT2 3.3170e-003 3.6170e-003 tbl/ehicleEF LDT2 7.3000e-004 8.6000e-004 tbl/ehicleEF LDT2 0.04 0.03 tbl/ehicleEF LDT2 0.17 0.16 tbl/ehicleEF LDT2 0.03 0.02 tbl/ehicleEF LDT2 0.03 0.02 tbl/ehicleEF LDT2 0.09 0.09 tbl/ehicleEF LHD1 4.2110e-003 4.5240e-003 tbl/ehicleEF LHD1 0.01 0.02 tbl/ehicleEF LHD1 0.16 0.13 tbl/ehicleEF LHD1 0.16 0.13 tbl/ehicleEF LHD1 0.16 0.13 tbl/ehicleEF LHD1 0.16 0.13 tbl/ehicleEF LHD1 0.88 2.26 tbl/ehicleEF LHD1 9.70 9.59 tbl/ehicleEF LHD1 77.32 687.17 tbl/ehicleEF	tblVehicleEF	LDT2	0.02	0.02
tbl/ehicleEF LDT2 3.3170e-003 3.6170e-003 tbl/ehicleEF LDT2 7.3000e-004 8.6000e-004 tbl/ehicleEF LDT2 0.04 0.03 tbl/ehicleEF LDT2 0.17 0.16 tbl/ehicleEF LDT2 0.03 0.02 tbl/ehicleEF LDT2 0.09 0.09 tbl/ehicleEF LDT2 0.49 0.16 tbl/ehicleEF LHD1 4.2110e-003 4.5240e-003 tbl/ehicleEF LHD1 0.01 0.02 tbl/ehicleEF LHD1 0.01 0.02 tbl/ehicleEF LHD1 0.01 0.02 tbl/ehicleEF LHD1 0.16 0.13 tbl/ehicleEF LHD1 0.16 0.13 tbl/ehicleEF LHD1 0.01 0.02 tbl/ehicleEF LHD1 0.88 2.26 tbl/ehicleEF LHD1 0.88 2.26 tbl/ehicleEF LHD1 771.32 887.17 tbl/ehicleEF	tblVehicleEF	LDT2	0.09	0.09
tbl/ehicleEF LDT2 7.3000e-004 8.6000e-004 tbl/ehicleEF LDT2 0.04 0.03 tbl/ehicleEF LDT2 0.17 0.16 tbl/ehicleEF LDT2 0.03 0.02 tbl/ehicleEF LDT2 0.03 0.02 tbl/ehicleEF LDT2 0.09 0.09 tbl/ehicleEF LDT2 0.49 0.16 tbl/ehicleEF LHD1 4.2110e-003 4.5240e-003 tbl/ehicleEF LHD1 0.01 0.02 tbl/ehicleEF LHD1 0.01 0.02 tbl/ehicleEF LHD1 0.16 0.13 tbl/ehicleEF LHD1 0.06 0.13 tbl/ehicleEF LHD1 0.88 2.26 tbl/ehicleEF LHD1 9.70 9.59 tbl/ehicleEF LHD1 9.70 9.59 tbl/ehicleEF LHD1 9.30 25.83 tbl/ehicleEF LHD1 0.10 0.11 tbl/ehicleEF LHD1	tblVehicleEF	LDT2	0.45	0.15
tbl/VehicleEF LDT2 0.04 0.03 tbl/VehicleEF LDT2 0.17 0.16 tbl/VehicleEF LDT2 0.03 0.02 tbl/VehicleEF LDT2 0.03 0.02 tbl/VehicleEF LDT2 0.09 0.09 tbl/VehicleEF LDT2 0.49 0.16 tbl/VehicleEF LHD1 4.2110e-003 4.5240e-003 tbl/VehicleEF LHD1 0.01 0.02 tbl/VehicleEF LHD1 0.01 0.02 tbl/VehicleEF LHD1 0.16 0.13 tbl/VehicleEF LHD1 1.09 1.38 tbl/VehicleEF LHD1 0.88 2.26 tbl/VehicleEF LHD1 9.70 9.59 tbl/VehicleEF LHD1 771.32 687.17 tbl/VehicleEF LHD1 9.30 25.83 tbl/VehicleEF LHD1 0.10 0.11 tbl/VehicleEF LHD1 1.81 2.70 tbl/VehicleEF L	tblVehicleEF	LDT2	3.3170e-003	3.6170e-003
tblVehicleEF LDT2 0.17 0.16 tblVehicleEF LDT2 0.03 0.02 tblVehicleEF LDT2 0.03 0.02 tblVehicleEF LDT2 0.09 0.09 tblVehicleEF LDT2 0.49 0.16 tblVehicleEF LHD1 4.2110e-003 4.5240e-003 tblVehicleEF LHD1 0.01 0.02 tblVehicleEF LHD1 0.01 0.02 tblVehicleEF LHD1 0.16 0.13 tblVehicleEF LHD1 1.09 1.38 tblVehicleEF LHD1 0.88 2.26 tblVehicleEF LHD1 9.70 9.59 tblVehicleEF LHD1 771.32 687.17 tblVehicleEF LHD1 9.30 25.83 tblVehicleEF LHD1 9.30 25.83 tblVehicleEF LHD1 0.10 0.11 tblVehicleEF LHD1 1.81 2.70 tblVehicleEF LHD1	tblVehicleEF	LDT2	7.3000e-004	8.6000e-004
tblVehicleEF LDT2 0.03 0.02 tblVehicleEF LDT2 0.03 0.02 tblVehicleEF LDT2 0.09 0.09 tblVehicleEF LDT2 0.49 0.16 tblVehicleEF LHD1 4.2110e-003 4.5240e-003 tblVehicleEF LHD1 0.01 0.02 tblVehicleEF LHD1 0.01 0.02 tblVehicleEF LHD1 0.16 0.13 tblVehicleEF LHD1 1.09 1.38 tblVehicleEF LHD1 0.88 2.26 tblVehicleEF LHD1 9.70 9.59 tblVehicleEF LHD1 771.32 697.17 tblVehicleEF LHD1 9.30 25.83 tblVehicleEF LHD1 0.10 0.11 tblVehicleEF LHD1 1.81 2.70 tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1<	tblVehicleEF	LDT2	0.04	0.03
tbl/ehicleEF LDT2 0.03 0.02 tbl/ehicleEF LDT2 0.09 0.09 tbl/ehicleEF LDT2 0.49 0.16 tbl/ehicleEF LHD1 4.2110e-003 4.5240e-003 tbl/ehicleEF LHD1 0.01 0.02 tbl/ehicleEF LHD1 0.01 0.02 tbl/ehicleEF LHD1 0.16 0.13 tbl/ehicleEF LHD1 1.09 1.38 tbl/ehicleEF LHD1 0.88 2.26 tbl/ehicleEF LHD1 9.70 9.59 tbl/ehicleEF LHD1 771.32 687.17 tbl/ehicleEF LHD1 9.30 25.83 tbl/ehicleEF LHD1 0.10 0.11 tbl/ehicleEF LHD1 1.81 2.70 tbl/ehicleEF LHD1 1.1350e-003 1.1750e-003 tbl/ehicleEF LHD1 1.1350e-003 1.1750e-003 tbl/ehicleEF LHD1 0.01 0.01 tbl/ehicleEF	tblVehicleEF	LDT2	0.17	0.16
tb/VehicleEF LDT2 0.09 0.09 tb/VehicleEF LDT2 0.49 0.16 tb/VehicleEF LHD1 4.2110e-003 4.5240e-003 tb/VehicleEF LHD1 0.01 0.02 tb/VehicleEF LHD1 0.16 0.13 tb/VehicleEF LHD1 1.09 1.38 tb/VehicleEF LHD1 0.88 2.26 tb/VehicleEF LHD1 9.70 9.59 tb/VehicleEF LHD1 771.32 687.17 tb/VehicleEF LHD1 9.30 25.83 tb/VehicleEF LHD1 0.10 0.11 tb/VehicleEF LHD1 1.81 2.70 tb/VehicleEF LHD1 1.1350e-003 1.1750e-003 tb/VehicleEF LHD1 0.01 0.01 tb/VehicleEF LHD1 0.02 0.03 tb/VehicleEF LHD1 0.02 0.03 tb/VehicleEF LHD1 0.02 0.03 tb/VehicleEF LHD1<	tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF LDT2 0.49 0.16 tblVehicleEF LHD1 4.2110e-003 4.5240e-003 tblVehicleEF LHD1 0.01 0.02 tblVehicleEF LHD1 0.16 0.13 tblVehicleEF LHD1 1.09 1.38 tblVehicleEF LHD1 9.70 9.59 tblVehicleEF LHD1 9.70 9.59 tblVehicleEF LHD1 9.30 25.83 tblVehicleEF LHD1 9.30 25.83 tblVehicleEF LHD1 1.81 2.70 tblVehicleEF LHD1 1.81 2.70 tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004	tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF LHD1 4.2110e-003 4.5240e-003 tblVehicleEF LHD1 0.01 0.02 tblVehicleEF LHD1 0.16 0.13 tblVehicleEF LHD1 1.09 1.38 tblVehicleEF LHD1 0.88 2.26 tblVehicleEF LHD1 9.70 9.59 tblVehicleEF LHD1 771.32 687.17 tblVehicleEF LHD1 9.30 25.83 tblVehicleEF LHD1 0.10 0.11 tblVehicleEF LHD1 1.81 2.70 tblVehicleEF LHD1 1.350e-003 1.1750e-003 tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004	tblVehicleEF	LDT2	0.09	0.09
tbl/ehicleEF LHD1 0.01 0.02 tbl/ehicleEF LHD1 0.01 0.02 tbl/ehicleEF LHD1 0.16 0.13 tbl/ehicleEF LHD1 1.09 1.38 tbl/ehicleEF LHD1 0.88 2.26 tbl/ehicleEF LHD1 9.70 9.59 tbl/ehicleEF LHD1 771.32 687.17 tbl/ehicleEF LHD1 9.30 25.83 tbl/ehicleEF LHD1 0.10 0.11 tbl/ehicleEF LHD1 1.81 2.70 tbl/ehicleEF LHD1 0.28 0.87 tbl/ehicleEF LHD1 1.1350e-003 1.1750e-003 tbl/ehicleEF LHD1 0.01 0.01 tbl/ehicleEF LHD1 0.02 0.03 tbl/ehicleEF LHD1 0.02 0.03 tbl/ehicleEF LHD1 2.2000e-004 8.3600e-004	tblVehicleEF	LDT2	0.49	0.16
tblVehicleEF LHD1 0.01 0.02 tblVehicleEF LHD1 0.16 0.13 tblVehicleEF LHD1 1.09 1.38 tblVehicleEF LHD1 0.88 2.26 tblVehicleEF LHD1 9.70 9.59 tblVehicleEF LHD1 771.32 687.17 tblVehicleEF LHD1 9.30 25.83 tblVehicleEF LHD1 0.10 0.11 tblVehicleEF LHD1 1.81 2.70 tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004	tblVehicleEF	LHD1	4.2110e-003	4.5240e-003
tblVehicleEF LHD1 0.16 0.13 tblVehicleEF LHD1 1.09 1.38 tblVehicleEF LHD1 0.88 2.26 tblVehicleEF LHD1 9.70 9.59 tblVehicleEF LHD1 771.32 687.17 tblVehicleEF LHD1 9.30 25.83 tblVehicleEF LHD1 0.10 0.11 tblVehicleEF LHD1 1.81 2.70 tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004	tblVehicleEF	LHD1	0.01	0.02
tbl/ehicleEF LHD1 1.09 1.38 tbl/ehicleEF LHD1 0.88 2.26 tbl/ehicleEF LHD1 9.70 9.59 tbl/ehicleEF LHD1 771.32 687.17 tbl/ehicleEF LHD1 9.30 25.83 tbl/ehicleEF LHD1 0.10 0.11 tbl/ehicleEF LHD1 1.81 2.70 tbl/ehicleEF LHD1 0.28 0.87 tbl/ehicleEF LHD1 1.1350e-003 1.1750e-003 tbl/ehicleEF LHD1 0.01 0.01 tbl/ehicleEF LHD1 0.02 0.03 tbl/ehicleEF LHD1 2.2000e-004 8.3600e-004	tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF LHD1 0.88 2.26 tblVehicleEF LHD1 9.70 9.59 tblVehicleEF LHD1 771.32 687.17 tblVehicleEF LHD1 9.30 25.83 tblVehicleEF LHD1 0.10 0.11 tblVehicleEF LHD1 1.81 2.70 tblVehicleEF LHD1 0.28 0.87 tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004	tblVehicleEF	LHD1	0.16	0.13
tblVehicleEF LHD1 9.70 9.59 tblVehicleEF LHD1 771.32 687.17 tblVehicleEF LHD1 9.30 25.83 tblVehicleEF LHD1 0.10 0.11 tblVehicleEF LHD1 1.81 2.70 tblVehicleEF LHD1 0.28 0.87 tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004	tblVehicleEF	LHD1	1.09	1.38
tblVehicleEF LHD1 771.32 687.17 tblVehicleEF LHD1 9.30 25.83 tblVehicleEF LHD1 0.10 0.11 tblVehicleEF LHD1 1.81 2.70 tblVehicleEF LHD1 0.28 0.87 tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004	tblVehicleEF	LHD1	0.88	2.26
tblVehicleEF LHD1 9.30 25.83 tblVehicleEF LHD1 0.10 0.11 tblVehicleEF LHD1 1.81 2.70 tblVehicleEF LHD1 0.28 0.87 tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004	tblVehicleEF	LHD1	9.70	9.59
tblVehicleEF LHD1 0.10 0.11 tblVehicleEF LHD1 1.81 2.70 tblVehicleEF LHD1 0.28 0.87 tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004	tblVehicleEF	LHD1	771.32	687.17
tblVehicleEF LHD1 1.81 2.70 tblVehicleEF LHD1 0.28 0.87 tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004	tblVehicleEF	LHD1	9.30	25.83
tblVehicleEF LHD1 0.28 0.87 tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004	tblVehicleEF	LHD1	0.10	0.11
tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004	tblVehicleEF	LHD1	1.81	2.70
tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004	tblVehicleEF	LHD1	0.28	0.87
tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004	tblVehicleEF	LHD1	1.1350e-003	1.1750e-003
tblVehicleEF LHD1 2.2000e-004 8.3600e-004	tblVehicleEF	LHD1	0.01	0.01
ļ	tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF LHD1 1.0860e-003 1.1250e-003	tblVehicleEF	LHD1	2.2000e-004	8.3600e-004
· · · · · · · · · · · · · · · · · · ·	tblVehicleEF	LHD1	1.0860e-003	1.1250e-003

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tblVehicleEF	LHD1	2.5590e-003	2.5990e-003
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.0200e-004	7.6900e-004
tblVehicleEF	LHD1	2.7090e-003	3.2480e-003
tblVehicleEF	LHD1	0.08	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1780e-003	1.4130e-003
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.21	0.29
tblVehicleEF	LHD1	0.07	0.24
tblVehicleEF	LHD1	9.3000e-005	9.5000e-005
tblVehicleEF	LHD1	7.4910e-003	6.7200e-003
tblVehicleEF	LHD1	9.2000e-005	3.0100e-004
tblVehicleEF	LHD1	2.7090e-003	3.2480e-003
tblVehicleEF	LHD1	0.08	0.10
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	1.1780e-003	1.4130e-003
tblVehicleEF	LHD1	0.17	0.21
tblVehicleEF	LHD1	0.21	0.29
tblVehicleEF	LHD1	0.08	0.26
tblVehicleEF	LHD1	4.2230e-003	4.5240e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.16	0.13
tblVehicleEF	LHD1	1.12	1.40
tblVehicleEF	LHD1	0.82	2.09
tblVehicleEF	LHD1	9.70	9.59
tblVehicleEF	LHD1	771.36	687.17
tblVehicleEF	LHD1	9.18	25.83
<u> </u>			•

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tblVehicleEF tblVehicleEF	LHD1 LHD1	0.10	0.11
tblVehicleEF	I ⊔D4		
	LHUI	1.72	2.56
tblVehicleEF	LHD1	0.26	0.82
tblVehicleEF	LHD1	1.1350e-003	1.1750e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.2000e-004	8.3600e-004
tblVehicleEF	LHD1	1.0860e-003	1.1250e-003
tblVehicleEF	LHD1	2.5590e-003	2.5990e-003
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.0200e-004	7.6900e-004
tblVehicleEF	LHD1	6.6950e-003	8.0020e-003
tblVehicleEF	LHD1	0.09	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.4840e-003	2.9640e-003
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.21	0.29
tblVehicleEF	LHD1	0.07	0.22
tblVehicleEF	LHD1	9.3000e-005	9.5000e-005
tblVehicleEF	LHD1	7.4910e-003	6.7210e-003
tblVehicleEF	LHD1	9.1000e-005	2.9800e-004
tblVehicleEF	LHD1	6.6950e-003	8.0020e-003
tblVehicleEF	LHD1	0.09	0.12
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	2.4840e-003	2.9640e-003
tblVehicleEF	LHD1	0.17	0.21
tblVehicleEF	LHD1	0.21	0.29
tblVehicleEF	LHD1	0.07	0.24
tblVehicleEF	LHD1	4.1990e-003	4.5240e-003

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Introduction				
tbl/ehicleEF LHD1 0.16 0.13 tbl/ehicleEF LHD1 1.07 1.35 tbl/ehicleEF LHD1 0.95 2.45 bl/ehicleEF LHD1 9.70 9.59 bl/ehicleEF LHD1 771.28 687.17 tbl/ehicleEF LHD1 9.43 25.83 tbl/ehicleEF LHD1 0.10 0.11 tbl/ehicleEF LHD1 1.85 2.76 tbl/ehicleEF LHD1 1.359e-003 1.1759e-003 tbl/ehicleEF LHD1 1.1359e-003 1.1759e-003 tbl/ehicleEF LHD1 0.01 0.01 tbl/ehicleEF LHD1 0.02 0.03 tbl/ehicleEF LHD1 2.200e-004 8.3600e-004 tbl/ehicleEF LHD1 1.0860e-003 1.1250e-003 tbl/ehicleEF LHD1 2.5590e-003 2.5990e-003 tbl/ehicleEF LHD1 0.02 0.03 tbl/ehicleEF LHD1 2.000e-004 7.6900e-004 <	tblVehicleEF	LHD1	0.01	0.02
tbVehicleEF LH01 1.07 1.35 tbVehicleEF LH01 0.95 2.45 tbVehicleEF LH01 9.70 9.59 tbVehicleEF LH01 771.28 687.17 tbVehicleEF LH01 9.43 25.83 tbVehicleEF LH01 0.10 0.11 tbVehicleEF LH01 1.85 2.76 tbVehicleEF LH01 0.30 0.93 tbVehicleEF LH01 0.30 0.93 tbVehicleEF LH01 0.01 0.01 tbVehicleEF LH01 0.02 0.03 tbVehicleEF LH01 0.02 0.03 tbVehicleEF LH01 1.0860e-003 1.1250e-003 tbVehicleEF LH01 2.5590e-003 2.5990e-003 tbVehicleEF LH01 0.02 0.03 tbVehicleEF LH01 2.0200e-004 7.6900e-004 tbVehicleEF LH01 9.3000e-004 7.1290e-003 tbVehicleEF	tblVehicleEF	LHD1	0.01	0.02
tbl/ehideEF LHD1 0.95 2.45 tbl/ehideEF LHD1 9.70 9.59 tbl/ehideEF LHD1 771.28 667.17 tbl/ehideEF LHD1 9.43 26.83 tbl/ehideEF LHD1 0.10 0.11 tbl/ehideEF LHD1 1.85 2.76 tbl/ehideEF LHD1 0.30 0.93 tbl/ehideEF LHD1 0.30 0.93 tbl/ehideEF LHD1 0.01 0.01 tbl/ehideEF LHD1 0.01 0.01 tbl/ehideEF LHD1 0.02 0.03 tbl/ehideEF LHD1 2.000e-004 8.3600e-004 tbl/ehideEF LHD1 1.0860e-003 1.1250e-003 tbl/ehideEF LHD1 2.590e-003 2.5990e-003 tbl/ehideEF LHD1 0.02 0.03 tbl/ehideEF LHD1 0.02 0.03 tbl/ehideEF LHD1 0.02 0.02 tbl/ehideEF LHD1	tblVehicleEF	LHD1	0.16	0.13
tbl/ehicleEF LHD1 9.70 9.59 tbl/ehicleEF LHD1 771.28 687.17 tbl/ehicleEF LHD1 9.43 25.83 tbl/ehicleEF LHD1 0.10 0.11 tbl/ehicleEF LHD1 1.85 2.76 tbl/ehicleEF LHD1 0.30 0.93 tbl/ehicleEF LHD1 1.1350-003 1.1750-003 tbl/ehicleEF LHD1 0.01 0.01 tbl/ehicleEF LHD1 0.02 0.03 tbl/ehicleEF LHD1 2.2000-004 8.3600e-004 tbl/ehicleEF LHD1 1.0860-003 1.1250e-003 tbl/ehicleEF LHD1 2.5590-003 2.5990e-003 tbl/ehicleEF LHD1 0.02 0.03 tbl/ehicleEF LHD1 0.02 0.03 tbl/ehicleEF LHD1 0.02 0.03 tbl/ehicleEF LHD1 0.02 0.03 tbl/ehicleEF LHD1 0.03 0.10 tbl/ehicleEF	tblVehicleEF	LHD1	1.07	1.35
tbiVehicleEF LHD1 771.28 687.17 tbiVehicleEF LHD1 9.43 25.83 tbiVehicleEF LHD1 0.10 0.11 tbiVehicleEF LHD1 1.85 2.76 tblVehicleEF LHD1 0.30 0.93 tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004 tblVehicleEF LHD1 1.0860e-003 1.1250e-003 tblVehicleEF LHD1 2.5590e-003 2.5990e-003 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 9.3300e-004 1.1290e-003 tblVehicleEF LHD1 0.08 0.10 tblVehicleEF LHD1 0.08 0.10 tblVehicleEF LHD1 0.02 0.02	tblVehicleEF	LHD1	0.95	2.45
tbIVehicleEF LHD1 9.43 25.83 tbIVehicleEF LHD1 0.10 0.11 tbIVehicleEF LHD1 1.85 2.76 tbIVehicleEF LHD1 0.30 0.93 tbIVehicleEF LHD1 1.1350e-003 1.1750e-003 tbIVehicleEF LHD1 0.01 0.01 tbIVehicleEF LHD1 0.02 0.03 tbIVehicleEF LHD1 1.0860e-003 1.1250e-003 tbIVehicleEF LHD1 1.0860e-003 1.1250e-003 tbIVehicleEF LHD1 2.5590e-003 2.5990e-003 tbIVehicleEF LHD1 2.0200e-004 7.6900e-004 tbIVehicleEF LHD1 9.3300e-004 1.1290e-003 tbIVehicleEF LHD1 0.02 0.02 tbIVehicleEF LHD1 0.02 0.02 tbIVehicleEF LHD1 0.02 0.02 tbIVehicleEF LHD1 0.02 0.02 tbIVehicleEF LHD1 0.14 0.17	tblVehicleEF	LHD1	9.70	9.59
tblVehicleEF LHD1 0.10 0.11 tblVehicleEF LHD1 1.85 2.76 tblVehicleEF LHD1 0.30 0.93 tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004 tblVehicleEF LHD1 1.0860e-003 1.1250e-003 tblVehicleEF LHD1 2.5590e-003 2.5990e-003 tblVehicleEF LHD1 2.0200e-004 7.6900e-004 tblVehicleEF LHD1 2.0200e-004 7.6900e-004 tblVehicleEF LHD1 9.3300e-004 1.1290e-003 tblVehicleEF LHD1 0.08 0.10 tblVehicleEF LHD1 0.02 0.02 tblVehicleEF LHD1 0.14 0.17 tblVehicleEF LHD1 0.23 0.32 tblVehicleEF LHD1 0.07 0.25	tblVehicleEF	LHD1	771.28	687.17
tbl/ehicleEF LHD1 1.85 2.76 tbl/ehicleEF LHD1 0.30 0.93 tbl/ehicleEF LHD1 1.1350e-003 1.1750e-003 tbl/ehicleEF LHD1 0.01 0.01 tbl/ehicleEF LHD1 0.02 0.03 tbl/ehicleEF LHD1 2.2000e-004 8.3600e-004 tbl/ehicleEF LHD1 1.0860e-003 1.1250e-003 tbl/ehicleEF LHD1 2.5590e-003 2.5990e-003 tbl/ehicleEF LHD1 0.02 0.03 tbl/ehicleEF LHD1 2.0200e-004 7.6900e-004 tbl/ehicleEF LHD1 9.3300e-004 1.1290e-003 tbl/ehicleEF LHD1 0.02 0.02 tbl/ehicleEF LHD1 0.02 0.02 tbl/ehicleEF LHD1 5.0200e-004 6.0800e-004 tbl/ehicleEF LHD1 0.14 0.17 tbl/ehicleEF LHD1 0.07 0.25 tbl/ehicleEF LHD1 9.3000e-005 9.50	tblVehicleEF	LHD1	9.43	25.83
tblVehicleEF LHD1 0.30 0.93 tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004 tblVehicleEF LHD1 1.0860e-003 1.1250e-003 tblVehicleEF LHD1 2.5590e-003 2.5990e-003 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.0200e-004 7.6900e-004 tblVehicleEF LHD1 9.3300e-004 1.1290e-003 tblVehicleEF LHD1 0.08 0.10 tblVehicleEF LHD1 0.02 0.02 tblVehicleEF LHD1 0.02 0.02 tblVehicleEF LHD1 0.14 0.17 tblVehicleEF LHD1 0.23 0.32 tblVehicleEF LHD1 0.07 0.25 tblVehicleEF LHD1 9.3000e-005 9.5000e-005	tblVehicleEF	LHD1	0.10	0.11
tblVehicleEF LHD1 1.1350e-003 1.1750e-003 tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004 tblVehicleEF LHD1 1.0860e-003 1.1250e-003 tblVehicleEF LHD1 2.5590e-003 2.5990e-003 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.0200e-004 7.6900e-004 tblVehicleEF LHD1 9.3300e-004 1.1290e-003 tblVehicleEF LHD1 0.08 0.10 tblVehicleEF LHD1 0.02 0.02 tblVehicleEF LHD1 0.14 0.17 tblVehicleEF LHD1 0.23 0.32 tblVehicleEF LHD1 0.07 0.25 tblVehicleEF LHD1 9.3000e-005 9.5000e-005 tblVehicleEF LHD1 9.3000e-005 9.5000e-005 tblVehicleEF LHD1 7.4910e-003	tblVehicleEF	LHD1	1.85	2.76
tblVehicleEF LHD1 0.01 0.01 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.2000e-004 8.3600e-004 tblVehicleEF LHD1 1.0860e-003 1.1250e-003 tblVehicleEF LHD1 2.5590e-003 2.5990e-003 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.0200e-004 7.6900e-004 tblVehicleEF LHD1 9.3300e-004 1.1290e-003 tblVehicleEF LHD1 0.08 0.10 tblVehicleEF LHD1 0.02 0.02 tblVehicleEF LHD1 5.0200e-004 6.0800e-004 tblVehicleEF LHD1 0.14 0.17 tblVehicleEF LHD1 0.07 0.25 tblVehicleEF LHD1 9.3000e-005 9.5000e-005 tblVehicleEF LHD1 9.3000e-005 9.5000e-005	tblVehicleEF	LHD1	0.30	0.93
tbl/ehicleEF LHD1 0.02 0.03 tbl/ehicleEF LHD1 2.2000e-004 8.3600e-004 tbl/ehicleEF LHD1 1.0860e-003 1.1250e-003 tbl/ehicleEF LHD1 2.5590e-003 2.5990e-003 tbl/ehicleEF LHD1 0.02 0.03 tbl/ehicleEF LHD1 2.0200e-004 7.6900e-004 tbl/ehicleEF LHD1 9.3300e-004 1.1290e-003 tbl/ehicleEF LHD1 0.08 0.10 tbl/ehicleEF LHD1 0.02 0.02 tbl/ehicleEF LHD1 5.0200e-004 6.0800e-004 tbl/ehicleEF LHD1 0.14 0.17 tbl/ehicleEF LHD1 0.07 0.25 tbl/ehicleEF LHD1 9.300e-005 9.5000e-005 tbl/ehicleEF LHD1 7.4910e-003 6.7200e-003	tblVehicleEF	LHD1	1.1350e-003	1.1750e-003
tblVehicleEF LHD1 2.2000e-004 8.3600e-004 tblVehicleEF LHD1 1.0860e-003 1.1250e-003 tblVehicleEF LHD1 2.5590e-003 2.5990e-003 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.0200e-004 7.6900e-004 tblVehicleEF LHD1 9.3300e-004 1.1290e-003 tblVehicleEF LHD1 0.08 0.10 tblVehicleEF LHD1 0.02 0.02 tblVehicleEF LHD1 5.0200e-004 6.0800e-004 tblVehicleEF LHD1 0.14 0.17 tblVehicleEF LHD1 0.02 0.32 tblVehicleEF LHD1 0.07 0.25 tblVehicleEF LHD1 9.3000e-005 9.5000e-005 tblVehicleEF LHD1 7.4910e-003 6.7200e-003	tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF LHD1 1.0860e-003 1.1250e-003 tblVehicleEF LHD1 2.5590e-003 2.5990e-003 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.0200e-004 7.6900e-004 tblVehicleEF LHD1 9.3300e-004 1.1290e-003 tblVehicleEF LHD1 0.08 0.10 tblVehicleEF LHD1 0.02 0.02 tblVehicleEF LHD1 5.0200e-004 6.0800e-004 tblVehicleEF LHD1 0.14 0.17 tblVehicleEF LHD1 0.07 0.25 tblVehicleEF LHD1 9.3000e-005 9.5000e-005 tblVehicleEF LHD1 7.4910e-003 6.7200e-003	tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF LHD1 2.5590e-003 2.5990e-003 tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.0200e-004 7.6900e-004 tblVehicleEF LHD1 9.3300e-004 1.1290e-003 tblVehicleEF LHD1 0.08 0.10 tblVehicleEF LHD1 0.02 0.02 tblVehicleEF LHD1 5.0200e-004 6.0800e-004 tblVehicleEF LHD1 0.14 0.17 tblVehicleEF LHD1 0.23 0.32 tblVehicleEF LHD1 0.07 0.25 tblVehicleEF LHD1 9.3000e-005 9.5000e-005 tblVehicleEF LHD1 7.4910e-003 6.7200e-003	tblVehicleEF	LHD1	2.2000e-004	8.3600e-004
tblVehicleEF LHD1 0.02 0.03 tblVehicleEF LHD1 2.0200e-004 7.6900e-004 tblVehicleEF LHD1 9.3300e-004 1.1290e-003 tblVehicleEF LHD1 0.08 0.10 tblVehicleEF LHD1 0.02 0.02 tblVehicleEF LHD1 5.0200e-004 6.0800e-004 tblVehicleEF LHD1 0.14 0.17 tblVehicleEF LHD1 0.23 0.32 tblVehicleEF LHD1 0.07 0.25 tblVehicleEF LHD1 9.3000e-005 9.5000e-005 tblVehicleEF LHD1 7.4910e-003 6.7200e-003	tblVehicleEF	LHD1	1.0860e-003	1.1250e-003
tblVehicleEF LHD1 2.0200e-004 7.6900e-004 tblVehicleEF LHD1 9.3300e-004 1.1290e-003 tblVehicleEF LHD1 0.08 0.10 tblVehicleEF LHD1 0.02 0.02 tblVehicleEF LHD1 5.0200e-004 6.0800e-004 tblVehicleEF LHD1 0.14 0.17 tblVehicleEF LHD1 0.23 0.32 tblVehicleEF LHD1 0.07 0.25 tblVehicleEF LHD1 9.3000e-005 9.5000e-005 tblVehicleEF LHD1 7.4910e-003 6.7200e-003	tblVehicleEF	LHD1	2.5590e-003	2.5990e-003
tblVehicleEF LHD1 9.3300e-004 1.1290e-003 tblVehicleEF LHD1 0.08 0.10 tblVehicleEF LHD1 0.02 0.02 tblVehicleEF LHD1 5.0200e-004 6.0800e-004 tblVehicleEF LHD1 0.14 0.17 tblVehicleEF LHD1 0.23 0.32 tblVehicleEF LHD1 0.07 0.25 tblVehicleEF LHD1 9.3000e-005 9.5000e-005 tblVehicleEF LHD1 7.4910e-003 6.7200e-003	tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF LHD1 0.08 0.10 tblVehicleEF LHD1 0.02 0.02 tblVehicleEF LHD1 5.0200e-004 6.0800e-004 tblVehicleEF LHD1 0.14 0.17 tblVehicleEF LHD1 0.23 0.32 tblVehicleEF LHD1 0.07 0.25 tblVehicleEF LHD1 9.3000e-005 9.5000e-005 tblVehicleEF LHD1 7.4910e-003 6.7200e-003	tblVehicleEF	LHD1	2.0200e-004	7.6900e-004
tblVehicleEF LHD1 0.02 0.02 tblVehicleEF LHD1 5.0200e-004 6.0800e-004 tblVehicleEF LHD1 0.14 0.17 tblVehicleEF LHD1 0.23 0.32 tblVehicleEF LHD1 0.07 0.25 tblVehicleEF LHD1 9.3000e-005 9.5000e-005 tblVehicleEF LHD1 7.4910e-003 6.7200e-003	tblVehicleEF	LHD1	9.3300e-004	1.1290e-003
tblVehicleEF LHD1 5.0200e-004 6.0800e-004 tblVehicleEF LHD1 0.14 0.17 tblVehicleEF LHD1 0.23 0.32 tblVehicleEF LHD1 0.07 0.25 tblVehicleEF LHD1 9.3000e-005 9.5000e-005 tblVehicleEF LHD1 7.4910e-003 6.7200e-003	tblVehicleEF	LHD1	0.08	0.10
tblVehicleEF LHD1 0.14 0.17 tblVehicleEF LHD1 0.23 0.32 tblVehicleEF LHD1 0.07 0.25 tblVehicleEF LHD1 9.3000e-005 9.5000e-005 tblVehicleEF LHD1 7.4910e-003 6.7200e-003	tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF LHD1 0.23 0.32 tblVehicleEF LHD1 0.07 0.25 tblVehicleEF LHD1 9.3000e-005 9.5000e-005 tblVehicleEF LHD1 7.4910e-003 6.7200e-003	tblVehicleEF	LHD1	5.0200e-004	6.0800e-004
tblVehicleEF LHD1 0.07 0.25 tblVehicleEF LHD1 9.3000e-005 9.5000e-005 tblVehicleEF LHD1 7.4910e-003 6.7200e-003	tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF LHD1 9.3000e-005 9.5000e-005 tblVehicleEF LHD1 7.4910e-003 6.7200e-003	tblVehicleEF	LHD1	0.23	0.32
tblVehicleEF LHD1 7.4910e-003 6.7200e-003	tblVehicleEF	LHD1	0.07	0.25
ļ <u>.</u>	tblVehicleEF	LHD1	9.3000e-005	9.5000e-005
tblVehicleEF LHD1 9.3000e-005 3.0500e-004	tblVehicleEF	LHD1	7.4910e-003	6.7200e-003
	tblVehicleEF	LHD1	9.3000e-005	3.0500e-004

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tblVehicleEF	LHD1	9.3300e-004	1.1290e-003
tblVehicleEF	LHD1	0.08	0.10
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	5.0200e-004	6.0800e-004
tblVehicleEF	LHD1	0.17	0.21
tblVehicleEF	LHD1	0.23	0.32
tblVehicleEF	LHD1	0.08	0.28
tblVehicleEF	LHD2	3.0330e-003	3.1590e-003
tblVehicleEF	LHD2	8.2820e-003	0.01
tblVehicleEF	LHD2	8.3090e-003	8.2730e-003
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tblVehicleEF	LHD2	0.79	0.85
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tblVehicleEF	LHD2	15.00	14.91
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tblVehicleEF	LHD2	7.04	20.80
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.63	1.93
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tblVehicleEF	LHD2	1.4840e-003	1.4130e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1800e-004	3.9900e-004
tblVehicleEF	LHD2	1.4200e-003	1.3520e-003
tblVehicleEF	LHD2	2.7150e-003	2.7270e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0800e-004	3.6700e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.01

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tblVehicleEF	LHD2	5.9900e-004	6.1500e-004
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	0.10	0.08
tblVehicleEF	LHD2	0.04	0.11
tblVehicleEF	LHD2	1.4300e-004	1.4500e-004
tblVehicleEF	LHD2	7.6140e-003	6.9690e-003
tblVehicleEF	LHD2	7.0000e-005	2.2900e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.9900e-004	6.1500e-004
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.10	0.08
tblVehicleEF	LHD2	0.05	0.12
tblVehicleEF	LHD2	3.0410e-003	3.1590e-003
tblVehicleEF	LHD2	8.3620e-003	0.01
tblVehicleEF	LHD2	7.8600e-003	7.8120e-003
tblVehicleEF	LHD2	0.13	0.11
tblVehicleEF	LHD2	0.80	0.85
tblVehicleEF	LHD2	0.51	1.07
tblVehicleEF	LHD2	15.00	14.91
tblVehicleEF	LHD2	789.86	717.98
tblVehicleEF	LHD2	6.97	20.80
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.55	1.83
tblVehicleEF	LHD2	0.17	0.46
tblVehicleEF	LHD2	1.4840e-003	1.4130e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1800e-004	3.9900e-004

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tblVehicleEF	•		
DIVELICIELI	LHD2	1.4200e-003	1.3520e-003
tblVehicleEF	LHD2	2.7150e-003	2.7270e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0800e-004	3.6700e-004
tblVehicleEF	LHD2	3.2520e-003	3.2430e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	1.2510e-003	1.2750e-003
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	0.10	0.08
tblVehicleEF	LHD2	0.04	0.11
tblVehicleEF	LHD2	1.4300e-004	1.4500e-004
tblVehicleEF	LHD2	7.6140e-003	6.9690e-003
tblVehicleEF	LHD2	6.9000e-005	2.2800e-004
tblVehicleEF	LHD2	3.2520e-003	3.2430e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2510e-003	1.2750e-003
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.10	0.08
tblVehicleEF	LHD2	0.04	0.12
tblVehicleEF	LHD2	3.0240e-003	3.1590e-003
tblVehicleEF	LHD2	8.2020e-003	0.01
tblVehicleEF	LHD2	8.7730e-003	8.7560e-003
tblVehicleEF	LHD2	0.13	0.11
tblVehicleEF	LHD2	0.79	0.84
tblVehicleEF	LHD2	0.59	1.25
tblVehicleEF	LHD2	15.00	14.91
tblVehicleEF	LHD2	789.83	717.98

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tblVehicleEF	LHD2	7.12	20.80
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.66	1.96
tblVehicleEF	LHD2	0.19	0.52
tblVehicleEF	LHD2	1.4840e-003	1.4130e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1800e-004	3.9900e-004
tblVehicleEF	LHD2	1.4200e-003	1.3520e-003
tblVehicleEF	LHD2	2.7150e-003	2.7270e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0800e-004	3.6700e-004
tblVehicleEF	LHD2	4.6800e-004	4.7300e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	2.6000e-004	2.6900e-004
tblVehicleEF	LHD2	0.13	0.14
tblVehicleEF	LHD2	0.11	0.09
tblVehicleEF	LHD2	0.04	0.12
tblVehicleEF	LHD2	1.4300e-004	1.4500e-004
tblVehicleEF	LHD2	7.6140e-003	6.9690e-003
tblVehicleEF	LHD2	7.0000e-005	2.3100e-004
tblVehicleEF	LHD2	4.6800e-004	4.7300e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.6000e-004	2.6900e-004
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.11	0.09
tblVehicleEF	LHD2	0.05	0.13

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EMFAC Off-Model Ad	justment Factors for Gasoline L	ight Duty Vehic	le to Account for the SAFE	Vehicle Rule Not Applied

tbl/PehiolEF MCY 0.36 0.46 tbl/PehiolEF MCY 0.26 0.17 tbl/PehiolEF MCY 21.88 22.30 bl/PehiolEF MCY 8.87 10.02 tbl/PehiolEF MCY 216.43 173.34 tbl/PehiolEF MCY 63.05 48.38 tbl/PehiolEF MCY 0.27 0.32 tbl/PehiolEF MCY 0.27 0.32 tbl/PehiolEF MCY 2.0200e-003 2.0200e-003 tbl/PehiolEF MCY 3.1820e-003 3.900e-003 tbl/PehiolEF MCY 1.8940e-003 1.800e-003 tbl/PehiolEF MCY 3.0050e-003 3.6850e-003 tbl/PehiolEF MCY 1.51 1.57 tbl/PehiolEF MCY 0.98 1.05 tbl/PehiolEF MCY 0.98 1.05 tbl/PehiolEF MCY 0.79 0.82 tbl/PehiolEF MCY 0.79 0.82 tbl/PehiolEF				
tbl/ehicleEF MCY 21.88 22.30 tbl/ehicleEF MCY 8.87 10.02 tbl/ehicleEF MCY 216.43 173.94 bl/ehicleEF MCY 63.05 48.38 bl/ehicleEF MCY 1.18 1.19 bl/ehicleEF MCY 0.27 0.32 tbl/ehicleEF MCY 2.0200e-003 2.0280e-003 tbl/ehicleEF MCY 3.1820e-003 3.9660e-003 tbl/ehicleEF MCY 1.8940e-003 3.6960e-003 tbl/ehicleEF MCY 3.059e-003 3.6950e-003 tbl/ehicleEF MCY 3.059e-003 3.6950e-003 tbl/ehicleEF MCY 0.598 1.05 tbl/ehicleEF MCY 0.79 0.82 tbl/ehicleEF MCY 0.79 0.82 tbl/ehicleEF MCY 0.71 0.77 tbl/ehicleEF MCY 0.24 2.1420e-003 2.1770e-003 tbl/ehicleEF MCY 0.59 1.05 <	tblVehicleEF	MCY	0.36	0.46
tbl/ehicleEF MCY 8.87 10.02 tbl/ehicleF MCY 216.43 173.94 bl/ehicleF MCY 63.05 48.38 bl/ehicleF MCY 1.18 1.18 bl/ehicleF MCY 0.27 0.32 tbl/ehicleF MCY 2.0200e-003 2.0280e-003 tbl/ehicleF MCY 3.1820e-003 3.9060e-003 tbl/ehicleF MCY 1.8940e-003 1.9030e-003 tbl/ehicleF MCY 3.050e-003 3.6950e-003 tbl/ehicleF MCY 3.050e-003 3.6950e-003 tbl/ehicleF MCY 1.51 1.57 tbl/ehicleF MCY 0.98 1.05 tbl/ehicleF MCY 0.79 0.82 tbl/ehicleF MCY 0.71 0.77 tbl/ehicleF MCY 1.98 2.27 tbl/ehicleF MCY 1.98 2.27 tbl/ehicleF MCY 0.71 0.77 tbl/ehicleF	tblVehicleEF	MCY	0.26	0.17
tb/VehicleEF MCY 216.43 173.94 tb/VehicleEF MCY 63.05 48.38 tb/VehicleEF MCY 1.18 1.18 tb/VehicleEF MCY 0.27 0.32 tb/VehicleEF MCY 2.0200e-003 2.0280e-003 tb/VehicleEF MCY 3.1820e-003 3.9060e-003 tb/VehicleEF MCY 1.8940e-003 1.9030e-003 tb/VehicleEF MCY 3.0050e-003 3.6950e-003 tb/VehicleEF MCY 1.51 1.57 tb/VehicleEF MCY 0.98 1.06 tb/VehicleEF MCY 0.79 0.82 tb/VehicleEF MCY 0.71 0.77 tb/VehicleEF MCY 1.98 2.27 tb/VehicleEF MCY 2.1420e-003 2.1770e-003 tb/VehicleEF MCY 2.1420e-003 2.1770e-003 tb/VehicleEF MCY 0.71 0.77 tb/VehicleEF MCY 0.79 0.82	tblVehicleEF	MCY	21.88	22.30
tblVehideEF MCY 63.05 48.38 tblVehideEF MCY 1.18 1.18 tblVehideEF MCY 0.27 0.32 tblVehideEF MCY 2.0200e-003 2.0280e-003 tblVehideEF MCY 3.1820e-003 3.9000e-003 tblVehideEF MCY 1.8840e-003 1.9030e-003 tblVehideEF MCY 3.0050e-003 3.6950e-003 tblVehideEF MCY 1.51 1.57 tblVehideEF MCY 0.98 1.05 tblVehideEF MCY 0.79 0.82 tblVehideEF MCY 0.71 0.77 tblVehideEF MCY 1.98 2.27 tblVehideEF MCY 1.98 2.27 tblVehideEF MCY 1.51 1.57 tblVehideEF MCY 2.1420e-003 2.1770e-003 tblVehideEF MCY 0.2400e-004 7.1500e-004 tblVehideEF MCY 0.98 1.05 tblVehideEF	tblVehicleEF	MCY	8.87	10.02
tblVehicleEF MCY 1.18 1.18 tblVehicleEF MCY 0.27 0.32 tblVehicleEF MCY 2.0200e-003 2.0280e-003 tblVehicleEF MCY 3.1820e-003 3.9960e-003 tblVehicleEF MCY 1.8940e-003 1.9030e-003 tblVehicleEF MCY 3.0050e-003 3.0950e-003 tblVehicleEF MCY 1.51 1.57 tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 1.98 2.27 tblVehicleEF MCY 2.1420e-003 2.1770e-003 tblVehicleEF MCY 6.2400e-004 7.1500e-004 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 0.79 0.82 t	tblVehicleEF	MCY	216.43	173.94
tblVehicleEF MCY 0.27 0.32 tblVehicleEF MCY 2.0200e-003 2.0280e-003 tblVehicleEF MCY 3.1820e-003 3.9060e-003 tblVehicleEF MCY 1.8940e-003 1.9030e-003 tblVehicleEF MCY 3.0050e-003 3.6950e-003 tblVehicleEF MCY 1.51 1.57 tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 1.98 2.27 tblVehicleEF MCY 2.1420e-003 2.1770e-003 tblVehicleEF MCY 6.2400e-004 7.1500e-004 tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 0.79 0.82 t	tblVehicleEF	MCY	63.05	48.38
tbl/VehicleEF MCY 2.0200e-003 2.0280e-003 tbl/VehicleEF MCY 3.1820e-003 3.9060e-003 tbl/VehicleEF MCY 1.8940e-003 1.9030e-003 tbl/VehicleEF MCY 3.0050e-003 3.6950e-003 tbl/VehicleEF MCY 1.51 1.57 tbl/VehicleEF MCY 0.98 1.05 tbl/VehicleEF MCY 0.79 0.82 tbl/VehicleEF MCY 0.71 0.77 tbl/VehicleEF MCY 1.98 2.27 tbl/VehicleEF MCY 2.1420e-003 2.1770e-003 tbl/VehicleEF MCY 2.1420e-003 2.1770e-003 tbl/VehicleEF MCY 6.2400e-004 7.1500e-004 tbl/VehicleEF MCY 0.98 1.05 tbl/VehicleEF MCY 0.79 0.82 tbl/VehicleEF MCY 0.79 0.82 tbl/VehicleEF MCY 0.71 0.77 tbl/VehicleEF MCY 0.71 0.77	tblVehicleEF	MCY	1.18	1.18
tblVehicleEF MCY 3.1820e-003 3.9060e-003 tblVehicleEF MCY 1.8940e-003 1.9030e-003 tblVehicleEF MCY 3.0050e-003 3.6950e-003 tblVehicleEF MCY 1.51 1.57 tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 2.52 2.55 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 1.98 2.27 tblVehicleEF MCY 2.1420e-003 2.1770e-003 tblVehicleEF MCY 6.2400e-004 7.1500e-004 tblVehicleEF MCY 1.51 1.57 tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 0.215 2.47 tblVehicleEF </td <td>tblVehicleEF</td> <td>MCY</td> <td>0.27</td> <td>0.32</td>	tblVehicleEF	MCY	0.27	0.32
tblVehicleEF MCY 1.8940e-003 1.9030e-003 tblVehicleEF MCY 3.0050e-003 3.6950e-003 tblVehicleEF MCY 1.51 1.57 tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 1.98 2.27 tblVehicleEF MCY 2.1420e-003 2.1770e-003 tblVehicleEF MCY 6.2400e-004 7.1500e-004 tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 0.215 0.44 tblVehicleEF <t< td=""><td>tblVehicleEF</td><td>MCY</td><td>2.0200e-003</td><td>2.0280e-003</td></t<>	tblVehicleEF	MCY	2.0200e-003	2.0280e-003
tblVehicleEF MCY 3.0050e-003 3.6950e-003 tblVehicleEF MCY 1.51 1.57 tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 2.52 2.55 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 1.98 2.27 tblVehicleEF MCY 2.1420e-003 2.1770e-003 tblVehicleEF MCY 6.2400e-004 7.1500e-004 tblVehicleEF MCY 1.51 1.57 tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 0.15 2.47 tblVehicleEF MCY 0.35 0.44 tblVehicleEF MCY 0.22 0.144	tblVehicleEF	MCY	3.1820e-003	3.9060e-003
tbl/ehicleEF MCY 1.51 1.57 tbl/ehicleEF MCY 0.98 1.05 tbl/ehicleEF MCY 0.79 0.82 tbl/ehicleEF MCY 2.52 2.55 tbl/ehicleEF MCY 0.71 0.77 tbl/ehicleEF MCY 1.98 2.27 tbl/ehicleEF MCY 2.1420e-003 2.1770e-003 tbl/ehicleEF MCY 6.2400e-004 7.1500e-004 tbl/ehicleEF MCY 1.51 1.57 tbl/ehicleEF MCY 0.98 1.05 tbl/ehicleEF MCY 0.79 0.82 tbl/ehicleEF MCY 3.07 3.09 tbl/ehicleEF MCY 0.71 0.77 tbl/ehicleEF MCY 0.35 0.44 tbl/ehicleEF MCY 0.35 0.44 tbl/ehicleEF MCY 0.22 0.14	tblVehicleEF	MCY	1.8940e-003	1.9030e-003
tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 2.52 2.55 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 1.98 2.27 tblVehicleEF MCY 2.1420e-003 2.1770e-003 tblVehicleEF MCY 6.2400e-004 7.1500e-004 tblVehicleEF MCY 1.51 1.57 tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 3.07 3.09 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 0.35 0.44 tblVehicleEF MCY 0.35 0.44 tblVehicleEF MCY 0.22 0.14	tblVehicleEF	MCY	3.0050e-003	3.6950e-003
tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 2.52 2.55 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 1.98 2.27 tblVehicleEF MCY 2.1420e-003 2.1770e-003 tblVehicleEF MCY 6.2400e-004 7.1500e-004 tblVehicleEF MCY 1.51 1.57 tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 3.07 3.09 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 0.35 0.44 tblVehicleEF MCY 0.22 0.14	tblVehicleEF	MCY	1.51	1.57
tblVehicleEF MCY 2.52 2.55 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 1.98 2.27 tblVehicleEF MCY 2.1420e-003 2.1770e-003 tblVehicleEF MCY 6.2400e-004 7.1500e-004 tblVehicleEF MCY 1.51 1.57 tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 3.07 3.09 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 0.35 0.44 tblVehicleEF MCY 0.22 0.14	tblVehicleEF	MCY	0.98	1.05
tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 1.98 2.27 tblVehicleEF MCY 2.1420e-003 2.1770e-003 tblVehicleEF MCY 6.2400e-004 7.1500e-004 tblVehicleEF MCY 1.51 1.57 tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 3.07 3.09 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 2.15 2.47 tblVehicleEF MCY 0.35 0.44 tblVehicleEF MCY 0.22 0.14	tblVehicleEF	MCY	0.79	0.82
tblVehicleEF MCY 1.98 2.27 tblVehicleEF MCY 2.1420e-003 2.1770e-003 tblVehicleEF MCY 6.2400e-004 7.1500e-004 tblVehicleEF MCY 1.51 1.57 tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 3.07 3.09 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 2.15 2.47 tblVehicleEF MCY 0.35 0.44 tblVehicleEF MCY 0.22 0.14	tblVehicleEF	MCY	2.52	2.55
tblVehicleEF MCY 2.1420e-003 2.1770e-003 tblVehicleEF MCY 6.2400e-004 7.1500e-004 tblVehicleEF MCY 1.51 1.57 tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 3.07 3.09 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 2.15 2.47 tblVehicleEF MCY 0.35 0.44 tblVehicleEF MCY 0.22 0.14	tblVehicleEF	MCY	0.71	0.77
tblVehicleEF MCY 6.2400e-004 7.1500e-004 tblVehicleEF MCY 1.51 1.57 tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 3.07 3.09 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 2.15 2.47 tblVehicleEF MCY 0.35 0.44 tblVehicleEF MCY 0.22 0.14	tblVehicleEF	MCY	1.98	2.27
tblVehicleEF MCY 1.51 1.57 tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 3.07 3.09 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 2.15 2.47 tblVehicleEF MCY 0.35 0.44 tblVehicleEF MCY 0.22 0.14	tblVehicleEF	MCY	2.1420e-003	2.1770e-003
tblVehicleEF MCY 0.98 1.05 tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 3.07 3.09 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 2.15 2.47 tblVehicleEF MCY 0.35 0.44 tblVehicleEF MCY 0.22 0.14	tblVehicleEF	MCY	6.2400e-004	7.1500e-004
tblVehicleEF MCY 0.79 0.82 tblVehicleEF MCY 3.07 3.09 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 2.15 2.47 tblVehicleEF MCY 0.35 0.44 tblVehicleEF MCY 0.22 0.14	tblVehicleEF	MCY	1.51	1.57
tblVehicleEF MCY 3.07 3.09 tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 2.15 2.47 tblVehicleEF MCY 0.35 0.44 tblVehicleEF MCY 0.22 0.14	tblVehicleEF	MCY	0.98	1.05
tblVehicleEF MCY 0.71 0.77 tblVehicleEF MCY 2.15 2.47 tblVehicleEF MCY 0.35 0.44 tblVehicleEF MCY 0.22 0.14	tblVehicleEF	MCY	0.79	0.82
tblVehicleEF MCY 2.15 2.47 tblVehicleEF MCY 0.35 0.44 tblVehicleEF MCY 0.22 0.14	tblVehicleEF	MCY	3.07	3.09
tblVehicleEF MCY 0.35 0.44 tblVehicleEF MCY 0.22 0.14	tblVehicleEF	MCY	0.71	0.77
tblVehicleEF MCY 0.22 0.14	tblVehicleEF	MCY	2.15	2.47
ļ	tblVehicleEF	MCY	0.35	0.44
tblVehicleEF MCY 21.99 22.41	tblVehicleEF	MCY	0.22	0.14
· · · · · · · · · · · · · · · · · · ·	tblVehicleEF	MCY	21.99	22.41

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tblVehicleEF	MCY	8.00	0.44
		0.00	9.11
tblVehicleEF	MCY	216.33	173.94
tblVehicleEF	MCY	60.60	48.38
tblVehicleEF	MCY	1.02	1.02
tblVehicleEF	MCY	0.25	0.29
tblVehicleEF	MCY	2.0200e-003	2.0280e-003
tblVehicleEF	MCY	3.1820e-003	3.9060e-003
tblVehicleEF	MCY	1.8940e-003	1.9030e-003
tblVehicleEF	MCY	3.0050e-003	3.6950e-003
tblVehicleEF	MCY	3.96	4.11
tblVehicleEF	MCY	1.49	1.57
tblVehicleEF	MCY	2.06	2.14
tblVehicleEF	MCY	2.44	2.47
tblVehicleEF	MCY	0.69	0.75
tblVehicleEF	MCY	1.66	1.91
tblVehicleEF	MCY	2.1410e-003	2.1760e-003
tblVehicleEF	MCY	6.0000e-004	6.8800e-004
tblVehicleEF	MCY	3.96	4.11
tblVehicleEF	MCY	1.49	1.57
tblVehicleEF	MCY	2.06	2.14
tblVehicleEF	MCY	2.98	3.00
tblVehicleEF	MCY	0.69	0.75
tblVehicleEF	MCY	1.80	2.07
tblVehicleEF	MCY	0.38	0.48
tblVehicleEF	MCY	0.30	0.20
tblVehicleEF	MCY	23.60	24.08
tblVehicleEF	MCY	10.26	11.52
tblVehicleEF	MCY	219.61	173.94
tblVehicleEF	MCY	66.57	48.38

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tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF	MCY	1.28	1.28 0.34 2.0280e-003 3.9060e-003 1.9030e-003 3.6950e-003 0.44 1.11
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	MCY MCY MCY MCY MCY MCY MCY MCY MCY	2.0200e-003 3.1820e-003 1.8940e-003 3.0050e-003 0.42 1.03 0.23	2.0280e-003 3.9060e-003 1.9030e-003 3.6950e-003 0.44 1.11
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	MCY MCY MCY MCY MCY MCY MCY MCY	3.1820e-003 1.8940e-003 3.0050e-003 0.42 1.03 0.23	3.9060e-003 1.9030e-003 3.6950e-003 0.44 1.11
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	MCY MCY MCY MCY MCY MCY	1.8940e-003 3.0050e-003 0.42 1.03 0.23	1.9030e-003 3.6950e-003 0.44 1.11
tblVehicleEF tblVehicleEF tblVehicleEF	MCY MCY MCY MCY	3.0050e-003 0.42 1.03 0.23	3.6950e-003 0.44 1.11
tblVehicleEF tblVehicleEF	MCY MCY MCY	0.42 1.03 0.23	0.44 1.11
tblVehicleEF	MCY MCY	1.03 0.23	1.11
	MCY	0.23	
tblVehicleEF			0.24
	MCY		0.24
tblVehicleEF		2.65	2.68
tblVehicleEF	MCY	0.83	0.90
tblVehicleEF	MCY	2.38	2.71
tblVehicleEF	MCY	2.1730e-003	2.2100e-003
tblVehicleEF	MCY	6.5900e-004	7.5300e-004
tblVehicleEF	MCY	0.42	0.44
tblVehicleEF	MCY	1.03	1.11
tblVehicleEF	MCY	0.23	0.24
tblVehicleEF	MCY	3.23	3.25
tblVehicleEF	MCY	0.83	0.90
tblVehicleEF	MCY	2.58	2.95
tblVehicleEF	MDV	5.8200e-003	0.01
tblVehicleEF	MDV	0.10	0.02
tblVehicleEF	MDV	1.14	1.51
tblVehicleEF	MDV	3.57	3.90
tblVehicleEF	MDV	429.69	523.07
tblVehicleEF	MDV	90.59	113.05
tblVehicleEF	MDV	0.12	0.19
tblVehicleEF	MDV	0.44	0.37
tblVehicleEF	MDV	1.7060e-003	1.9110e-003

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tblVehicleEF	MDV	2.0280e-003	2.5040e-003
tblVehicleEF	MDV	1.5740e-003	1.7620e-003
tblVehicleEF	MDV	1.8650e-003	2.3030e-003
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.20	0.25
tblVehicleEF	MDV	0.11	0.09
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.09	0.14
tblVehicleEF	MDV	0.51	0.31
tblVehicleEF	MDV	4.2480e-003	5.2430e-003
tblVehicleEF	MDV	8.9600e-004	1.2000e-003
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.20	0.25
tblVehicleEF	MDV	0.11	0.09
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.09	0.14
tblVehicleEF	MDV	0.56	0.34
tblVehicleEF	MDV	6.7430e-003	0.02
tblVehicleEF	MDV	0.08	0.02
tblVehicleEF	MDV	1.40	1.86
tblVehicleEF	MDV	2.91	3.19
tblVehicleEF	MDV	458.12	572.32
tblVehicleEF	MDV	89.25	113.05
tblVehicleEF	MDV	0.11	0.17
tblVehicleEF	MDV	0.40	0.34
tblVehicleEF	MDV	1.7060e-003	1.9110e-003
tblVehicleEF	MDV	2.0280e-003	2.5040e-003
tblVehicleEF	MDV	1.5740e-003	1.7620e-003
tblVehicleEF	MDV	1.8650e-003	2.3030e-003

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tbVehicleEF MDV 0.32 0.28 tbVehicleEF MDV 0.23 0.29 tbVehicleEF MDV 0.03 0.04 tbVehicleEF MDV 0.08 0.14 tbVehicleEF MDV 0.42 0.25 tbVehicleEF MDV 4.5300e-003 5.7410e-003 tbVehicleEF MDV 8.8300e-004 1.1870e-003 tbVehicleEF MDV 0.32 0.28 tbVehicleEF MDV 0.32 0.28 tbVehicleEF MDV 0.23 0.29 tbVehicleEF MDV 0.04 0.00 tbVehicleEF MDV 0.04 0.00 tbVehicleEF MDV 0.08 0.14 tbVehicleEF MDV 0.08 0.14 tbVehicleEF MDV 0.46 0.28 tbVehicleEF MDV 0.11 0.03 tbVehicleEF MDV 1.07 1.41 tbVehicleEF MDV 4.58 4.				
tbl/ehicleEF MDV 0.23 0.20 tbl/ehicleEF MDV 0.03 0.04 tbl/ehicleEF MDV 0.08 0.14 tbl/ehicleEF MDV 0.42 0.25 tbl/ehicleEF MDV 4.5300e-003 5.7410e-003 tbl/ehicleEF MDV 8.8300e-004 1.1870e-003 tbl/ehicleEF MDV 0.32 0.28 tbl/ehicleEF MDV 0.23 0.29 tbl/ehicleEF MDV 0.04 0.06 tbl/ehicleEF MDV 0.09 0.14 tbl/ehicleEF MDV 0.08 0.14 tbl/ehicleEF MDV 0.46 0.28 tbl/ehicleEF MDV 0.41 0.03 tbl/ehicleEF MDV 0.11 0.03 tbl/ehicleEF MDV 0.11 0.03 tbl/ehicleEF MDV 0.11 0.03 tbl/ehicleEF MDV 4.36 4.73 tbl/ehicleEF MDV 4.985<	tblVehicleEF	MDV	0.32	0.28
tbl/ehicleEF MDV 0.03 0.04 tbl/ehicleEF MDV 0.08 0.14 tbl/ehicleEF MDV 0.42 0.25 tbl/ehicleEF MDV 4.5300e-003 5.7410e-003 tbl/ehicleEF MDV 8.8300e-004 1.1870e-003 tbl/ehicleEF MDV 0.32 0.28 tbl/ehicleEF MDV 0.23 0.29 tbl/ehicleEF MDV 0.04 0.06 tbl/ehicleEF MDV 0.04 0.06 tbl/ehicleEF MDV 0.08 0.14 tbl/ehicleEF MDV 0.46 0.28 tbl/ehicleEF MDV 0.11 0.03 tbl/ehicleEF MDV 0.11 0.03 tbl/ehicleEF MDV 1.07 1.41 tbl/ehicleEF MDV 4.35 4.73 tbl/ehicleEF MDV 4.9.85 50.597 tbl/ehicleEF MDV 0.13 0.21 tbl/ehicleF MDV 0.1	tblVehicleEF	MDV	0.23	0.29
tb/VehicleEF MDV 0.08 0.14 tb/VehicleEF MDV 0.42 0.25 tb/VehicleEF MDV 4.5300e-003 5.7410e-003 tb/VehicleEF MDV 8.8300e-004 1.1870e-003 tb/VehicleEF MDV 0.32 0.28 tb/VehicleEF MDV 0.23 0.29 tb/VehicleEF MDV 0.04 0.06 tb/VehicleEF MDV 0.08 0.14 tb/VehicleEF MDV 0.08 0.14 tb/VehicleEF MDV 0.46 0.28 tb/VehicleEF MDV 5.4370e-003 0.01 tb/VehicleEF MDV 0.11 0.03 tb/VehicleEF MDV 1.07 1.41 tb/VehicleEF MDV 4.19.85 505.97 tb/VehicleEF MDV 4.19.85 505.97 tb/VehicleEF MDV 0.13 0.21 tb/VehicleEF MDV 0.13 0.21 tb/VehicleEF MDV	tblVehicleEF	MDV	0.23	0.20
tb/VehicleEF MDV 0.42 0.25 tb/VehicleEF MDV 4.5300e-003 5.7410e-003 tb/VehicleEF MDV 8.8300e-004 1.1870e-003 tb/VehicleEF MDV 0.32 0.28 tb/VehicleEF MDV 0.23 0.29 bl/VehicleEF MDV 0.04 0.06 tb/VehicleEF MDV 0.04 0.06 tb/VehicleEF MDV 0.08 0.14 tb/VehicleEF MDV 0.46 0.28 tb/VehicleEF MDV 5.4370e-003 0.01 tb/VehicleEF MDV 0.11 0.03 tb/VehicleEF MDV 1.07 1.41 tb/VehicleEF MDV 4.35 4.73 tb/VehicleEF MDV 4.9.85 505.97 tb/VehicleEF MDV 0.13 0.21 tb/VehicleEF MDV 0.48 0.40 tb/VehicleEF MDV 1.7060e-003 1.9110e-003 tb/VehicleEF MD	tblVehicleEF	MDV	0.03	0.04
tblVehideEF MDV 4.5300e-003 5.7410e-003 tblVehideEF MDV 8.8300e-004 1.1870e-003 tblVehideEF MDV 0.32 0.28 tblVehideEF MDV 0.23 0.29 tblVehideEF MDV 0.04 0.06 tblVehideEF MDV 0.08 0.14 tblVehideEF MDV 0.46 0.28 tblVehideEF MDV 5.4370e-003 0.01 tblVehideEF MDV 0.11 0.03 tblVehideEF MDV 1.07 1.41 tblVehideEF MDV 4.35 4.73 tblVehideEF MDV 4.9.85 505.97 tblVehideEF MDV 92.12 113.05 tblVehideEF MDV 0.48 0.40 tblVehideEF MDV 1.7060e-003 1.9110e-003 tblVehideEF MDV 1.5740e-003 2.5040e-003 tblVehideEF MDV 1.8650e-003 2.3030e-003 tblVehideEF	tblVehicleEF	MDV	0.08	0.14
tblVehicleEF MDV 8.8300e-004 1.1870e-003 tblVehicleEF MDV 0.32 0.28 tblVehicleEF MDV 0.23 0.29 tblVehicleEF MDV 0.04 0.06 tblVehicleEF MDV 0.08 0.14 tblVehicleEF MDV 0.46 0.28 tblVehicleEF MDV 5.4370e-003 0.01 tblVehicleEF MDV 0.11 0.03 tblVehicleEF MDV 1.07 1.41 tblVehicleEF MDV 4.35 4.73 tblVehicleEF MDV 419.85 505.97 tblVehicleEF MDV 92.12 113.05 tblVehicleEF MDV 0.13 0.21 tblVehicleEF MDV 0.48 0.40 tblVehicleEF MDV 1.7060e-003 1.9110e-003 tblVehicleEF MDV 1.5740e-003 2.5040e-003 tblVehicleEF MDV 1.8650e-003 2.5040e-003 tblVehicleEF <td>tblVehicleEF</td> <td>MDV</td> <td>0.42</td> <td>0.25</td>	tblVehicleEF	MDV	0.42	0.25
tbl/ehicleEF MDV 0.32 0.28 tbl/ehicleEF MDV 0.23 0.29 tbl/ehicleEF MDV 0.23 0.20 tbl/ehicleEF MDV 0.04 0.06 tbl/ehicleEF MDV 0.08 0.14 tbl/ehicleEF MDV 0.46 0.28 tbl/ehicleEF MDV 5.4370e-003 0.01 tbl/ehicleEF MDV 0.11 0.03 tbl/ehicleEF MDV 1.07 1.41 tbl/ehicleEF MDV 4.35 4.73 tbl/ehicleEF MDV 419.85 505.97 tbl/ehicleEF MDV 92.12 113.05 tbl/ehicleEF MDV 0.13 0.21 tbl/ehicleEF MDV 0.48 0.40 tbl/ehicleEF MDV 1.7060e-003 1.9110e-003 tbl/ehicleEF MDV 1.5740e-003 2.5040e-003 tbl/ehicleEF MDV 1.8650e-003 2.3030e-003 tbl/ehicleEF <td< td=""><td>tblVehicleEF</td><td>MDV</td><td>4.5300e-003</td><td>5.7410e-003</td></td<>	tblVehicleEF	MDV	4.5300e-003	5.7410e-003
tblVehicleEF MDV 0.23 0.29 tblVehicleEF MDV 0.23 0.20 tblVehicleEF MDV 0.04 0.06 tblVehicleEF MDV 0.08 0.14 tblVehicleEF MDV 0.46 0.28 tblVehicleEF MDV 5.4370e-003 0.01 tblVehicleEF MDV 0.11 0.03 tblVehicleEF MDV 1.07 1.41 tblVehicleEF MDV 4.35 4.73 tblVehicleEF MDV 419.85 505.97 tblVehicleEF MDV 92.12 113.05 tblVehicleEF MDV 0.13 0.21 tblVehicleEF MDV 0.48 0.40 tblVehicleEF MDV 1.7060e-003 1.9110e-003 tblVehicleEF MDV 1.5740e-003 1.7620e-003 tblVehicleEF MDV 1.5740e-003 1.7620e-003 tblVehicleEF MDV 1.8650e-003 2.3030e-003 tblVehicleEF <td>tblVehicleEF</td> <td>MDV</td> <td>8.8300e-004</td> <td>1.1870e-003</td>	tblVehicleEF	MDV	8.8300e-004	1.1870e-003
tbl/VehicleEF MDV 0.23 0.20 tbl/VehicleEF MDV 0.04 0.06 tbl/VehicleEF MDV 0.08 0.14 tbl/VehicleEF MDV 0.46 0.28 tbl/VehicleEF MDV 5.4370e-003 0.01 tbl/VehicleEF MDV 0.11 0.03 tbl/VehicleEF MDV 1.07 1.41 tbl/VehicleEF MDV 4.35 4.73 tbl/VehicleEF MDV 419.85 505.97 tbl/VehicleEF MDV 92.12 113.05 tbl/VehicleEF MDV 0.13 0.21 tbl/VehicleEF MDV 0.48 0.40 tbl/VehicleEF MDV 1.7060e-003 1.9110e-003 tbl/VehicleEF MDV 1.5740e-003 2.5040e-003 tbl/VehicleEF MDV 1.8650e-003 2.3030e-003 tbl/VehicleEF MDV 1.8650e-003 2.3030e-003 tbl/VehicleEF MDV 0.05 0.04 <t< td=""><td>tblVehicleEF</td><td>MDV</td><td>0.32</td><td>0.28</td></t<>	tblVehicleEF	MDV	0.32	0.28
tblVehicleEF MDV 0.04 0.06 tblVehicleEF MDV 0.08 0.14 tblVehicleEF MDV 0.46 0.28 tblVehicleEF MDV 5.4370e-003 0.01 tblVehicleEF MDV 0.11 0.03 tblVehicleEF MDV 1.07 1.41 tblVehicleEF MDV 4.35 4.73 tblVehicleEF MDV 419.85 505.97 tblVehicleEF MDV 92.12 113.05 tblVehicleEF MDV 0.13 0.21 tblVehicleEF MDV 0.48 0.40 tblVehicleEF MDV 1.7060e-003 1.9110e-003 tblVehicleEF MDV 1.5740e-003 2.5040e-003 tblVehicleEF MDV 1.8650e-003 2.3030e-003 tblVehicleEF MDV 1.8650e-003 2.3030e-003 tblVehicleEF MDV 0.05 0.04 tblVehicleEF MDV 0.05 0.04	tblVehicleEF	MDV	0.23	0.29
bl/ehicleEF MDV 0.08 0.14 bl/ehicleEF MDV 0.46 0.28 bl/ehicleEF MDV 5.4370e-003 0.01 bl/ehicleEF MDV 0.11 0.03 bl/ehicleEF MDV 1.07 1.41 bl/ehicleEF MDV 4.35 4.73 bl/ehicleEF MDV 419.85 505.97 bl/ehicleEF MDV 92.12 113.05 bl/ehicleEF MDV 0.13 0.21 bl/ehicleEF MDV 0.48 0.40 bl/ehicleEF MDV 1.7060e-003 1.9110e-003 bl/ehicleEF MDV 1.5740e-003 2.5040e-003 bl/ehicleEF MDV 1.5740e-003 1.7620e-003 bl/ehicleEF MDV 1.8650e-003 2.3030e-003 bl/ehicleEF MDV 0.05 0.04 bl/ehicleEF MDV 0.05 0.25	tblVehicleEF	MDV	0.23	0.20
tblVehicleEF MDV 0.46 0.28 tblVehicleEF MDV 5.4370e-003 0.01 tblVehicleEF MDV 0.11 0.03 tblVehicleEF MDV 1.07 1.41 tblVehicleEF MDV 4.35 4.73 tblVehicleEF MDV 419.85 505.97 tblVehicleEF MDV 92.12 113.05 tblVehicleEF MDV 0.13 0.21 tblVehicleEF MDV 0.48 0.40 tblVehicleEF MDV 1.7060e-003 1.9110e-003 tblVehicleEF MDV 2.0280e-003 2.5040e-003 tblVehicleEF MDV 1.5740e-003 1.7620e-003 tblVehicleEF MDV 1.8650e-003 2.3030e-003 tblVehicleEF MDV 0.05 0.04 tblVehicleEF MDV 0.05 0.04	tblVehicleEF	MDV	0.04	0.06
tbl/ehicleEF MDV 5.4370e-003 0.01 tbl/ehicleEF MDV 0.11 0.03 tbl/ehicleEF MDV 1.07 1.41 tbl/ehicleEF MDV 4.35 4.73 tbl/ehicleEF MDV 419.85 505.97 tbl/ehicleEF MDV 92.12 113.05 tbl/ehicleEF MDV 0.13 0.21 tbl/ehicleEF MDV 0.48 0.40 tbl/ehicleEF MDV 1.7060e-003 1.9110e-003 tbl/ehicleEF MDV 2.0280e-003 2.5040e-003 tbl/ehicleEF MDV 1.5740e-003 1.7620e-003 tbl/ehicleEF MDV 1.8650e-003 2.3030e-003 tbl/ehicleEF MDV 0.05 0.04 tbl/ehicleEF MDV 0.20 0.25	tblVehicleEF	MDV	0.08	0.14
tblVehicleEF MDV 0.11 0.03 tblVehicleEF MDV 1.07 1.41 tblVehicleEF MDV 4.35 4.73 tblVehicleEF MDV 419.85 505.97 tblVehicleEF MDV 92.12 113.05 tblVehicleEF MDV 0.13 0.21 tblVehicleEF MDV 0.48 0.40 tblVehicleEF MDV 1.7060e-003 1.9110e-003 tblVehicleEF MDV 2.0280e-003 2.5040e-003 tblVehicleEF MDV 1.5740e-003 1.7620e-003 tblVehicleEF MDV 1.8650e-003 2.3030e-003 tblVehicleEF MDV 0.05 0.04 tblVehicleEF MDV 0.05 0.04 tblVehicleEF MDV 0.20 0.25	tblVehicleEF	MDV	0.46	0.28
tblVehicleEF MDV 1.07 1.41 tblVehicleEF MDV 4.35 4.73 tblVehicleEF MDV 419.85 505.97 tblVehicleEF MDV 92.12 113.05 tblVehicleEF MDV 0.13 0.21 tblVehicleEF MDV 0.48 0.40 tblVehicleEF MDV 1.7060e-003 1.9110e-003 tblVehicleEF MDV 2.0280e-003 2.5040e-003 tblVehicleEF MDV 1.5740e-003 1.7620e-003 tblVehicleEF MDV 1.8650e-003 2.3030e-003 tblVehicleEF MDV 0.05 0.04 tblVehicleEF MDV 0.20 0.25	tblVehicleEF	MDV	5.4370e-003	0.01
tblVehicleEF MDV 4.35 4.73 tblVehicleEF MDV 419.85 505.97 tblVehicleEF MDV 92.12 113.05 tblVehicleEF MDV 0.13 0.21 tblVehicleEF MDV 0.48 0.40 tblVehicleEF MDV 1.7060e-003 1.9110e-003 tblVehicleEF MDV 2.0280e-003 2.5040e-003 tblVehicleEF MDV 1.5740e-003 1.7620e-003 tblVehicleEF MDV 1.8650e-003 2.3030e-003 tblVehicleEF MDV 0.05 0.04 tblVehicleEF MDV 0.20 0.25	tblVehicleEF	MDV	0.11	0.03
tblVehicleEF MDV 419.85 505.97 tblVehicleEF MDV 92.12 113.05 tblVehicleEF MDV 0.13 0.21 tblVehicleEF MDV 0.48 0.40 tblVehicleEF MDV 1.7060e-003 1.9110e-003 tblVehicleEF MDV 2.0280e-003 2.5040e-003 tblVehicleEF MDV 1.5740e-003 1.7620e-003 tblVehicleEF MDV 1.8650e-003 2.3030e-003 tblVehicleEF MDV 0.05 0.04 tblVehicleEF MDV 0.20 0.25	tblVehicleEF	MDV	1.07	1.41
tblVehicleEF MDV 92.12 113.05 tblVehicleEF MDV 0.13 0.21 tblVehicleEF MDV 0.48 0.40 tblVehicleEF MDV 1.7060e-003 1.9110e-003 tblVehicleEF MDV 2.0280e-003 2.5040e-003 tblVehicleEF MDV 1.5740e-003 1.7620e-003 tblVehicleEF MDV 1.8650e-003 2.3030e-003 tblVehicleEF MDV 0.05 0.04 tblVehicleEF MDV 0.20 0.25	tblVehicleEF	MDV	4.35	4.73
tblVehicleEF MDV 0.13 0.21 tblVehicleEF MDV 0.48 0.40 tblVehicleEF MDV 1.7060e-003 1.9110e-003 tblVehicleEF MDV 2.0280e-003 2.5040e-003 tblVehicleEF MDV 1.5740e-003 1.7620e-003 tblVehicleEF MDV 1.8650e-003 2.3030e-003 tblVehicleEF MDV 0.05 0.04 tblVehicleEF MDV 0.20 0.25	tblVehicleEF	MDV	419.85	505.97
tblVehicleEF MDV 0.48 0.40 tblVehicleEF MDV 1.7060e-003 1.9110e-003 tblVehicleEF MDV 2.0280e-003 2.5040e-003 tblVehicleEF MDV 1.5740e-003 1.7620e-003 tblVehicleEF MDV 1.8650e-003 2.3030e-003 tblVehicleEF MDV 0.05 0.04 tblVehicleEF MDV 0.20 0.25	tblVehicleEF	MDV	92.12	113.05
tblVehicleEF MDV 1.7060e-003 1.9110e-003 tblVehicleEF MDV 2.0280e-003 2.5040e-003 tblVehicleEF MDV 1.5740e-003 1.7620e-003 tblVehicleEF MDV 1.8650e-003 2.3030e-003 tblVehicleEF MDV 0.05 0.04 tblVehicleEF MDV 0.20 0.25	tblVehicleEF	MDV	0.13	0.21
tblVehicleEF MDV 2.0280e-003 2.5040e-003 tblVehicleEF MDV 1.5740e-003 1.7620e-003 tblVehicleEF MDV 1.8650e-003 2.3030e-003 tblVehicleEF MDV 0.05 0.04 tblVehicleEF MDV 0.20 0.25	tblVehicleEF	MDV	0.48	0.40
tblVehicleEF MDV 1.5740e-003 1.7620e-003 tblVehicleEF MDV 1.8650e-003 2.3030e-003 tblVehicleEF MDV 0.05 0.04 tblVehicleEF MDV 0.20 0.25	tblVehicleEF	MDV	1.7060e-003	1.9110e-003
tblVehicleEF MDV 1.8650e-003 2.3030e-003 tblVehicleEF MDV 0.05 0.04 tblVehicleEF MDV 0.20 0.25	tblVehicleEF	MDV	2.0280e-003	2.5040e-003
tblVehicleEF MDV 0.05 0.04 tblVehicleEF MDV 0.20 0.25	tblVehicleEF	MDV	1.5740e-003	1.7620e-003
tblVehicleEF MDV 0.20 0.25	tblVehicleEF	MDV	1.8650e-003	2.3030e-003
ļ	tblVehicleEF	MDV	0.05	0.04
tblVehicleEF MDV 0.04 0.04	tblVehicleEF	MDV	0.20	0.25
	tblVehicleEF	MDV	0.04	0.04

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DiversideEF MDV				
tblVehideEF MDV 0.59 0.36 tblVehideEF MDV 4.1510e-003 5.0710e-003 tblVehideEF MDV 9.1200e-004 1.2150e-003 tblVehideEF MDV 0.05 0.04 tblVehideEF MDV 0.02 0.25 tblVehideEF MDV 0.04 0.04 tblVehideEF MDV 0.10 0.17 tblVehideEF MDV 0.65 0.39 tblVehideEF MH 0.02 0.05 tblVehideEF MH 0.02 0.05 tblVehideEF MH 0.02 0.03 tblVehideEF MH 1.84 3.74 tblVehideEF MH 1.86 3.72 tblVehideEF MH 1.586.30 1.236.08 tblVehideEF MH 1.880 58.92 tblVehideEF MH 0.04 0.04 tblVehideEF MH 0.04 0.04 tblVehideEF MH 0.04 0.	tblVehicleEF	MDV	0.02	0.03
tbiVehicleEF MDV 4.1510e-003 5.0710e-003 tbIVehicleEF MDV 9.1200e-004 1.2150e-003 tbIVehicleEF MDV 0.05 0.04 tbIVehicleEF MDV 0.20 0.25 tbIVehicleEF MDV 0.04 0.04 tbIVehicleEF MDV 0.03 0.05 tbIVehicleEF MDV 0.10 0.17 tbIVehicleEF MDV 0.65 0.39 tbIVehicleEF MH 0.02 0.05 tbIVehicleEF MH 0.02 0.03 tbIVehicleEF MH 1.84 3.74 tbIVehicleEF MH 1.586.30 1.236.08 tbIVehicleEF MH 1.890 58.92 tbIVehicleEF MH 1.215 2.06 tbIVehicleEF MH 0.23 1.02 tbIVehicleEF MH 0.01 0.01 tbIVehicleEF MH 0.04 0.04 tbIVehicleEF MH 0.280	tblVehicleEF	MDV	0.10	0.17
tbiVehicleEF MDV 9.1200e-004 1.2150e-003 tbiVehicleEF MDV 0.05 0.04 tbiVehicleEF MDV 0.20 0.25 tbiVehicleEF MDV 0.04 0.04 tbiVehicleEF MDV 0.03 0.05 tbiVehicleEF MDV 0.10 0.17 tbiVehicleEF MH 0.02 0.05 tbiVehicleEF MH 0.02 0.03 tbiVehicleEF MH 0.02 0.03 tbiVehicleEF MH 1.84 3.74 tbiVehicleEF MH 1.586.30 1.236.08 tbiVehicleEF MH 18.80 58.92 tbiVehicleEF MH 18.80 58.92 tbiVehicleEF MH 0.01 0.01 tbiVehicleEF MH 0.04 0.04 tbiVehicleEF MH 0.04 0.04 tbiVehicleEF MH 0.04 0.04 tbiVehicleEF MH 0.04 <t< td=""><td>tblVehicleEF</td><td>MDV</td><td>0.59</td><td>0.36</td></t<>	tblVehicleEF	MDV	0.59	0.36
tbIVehicleEF MDV 0.05 0.04 tbIVehicleEF MDV 0.20 0.25 tbIVehicleEF MDV 0.04 0.04 tbIVehicleEF MDV 0.03 0.05 tbIVehicleEF MDV 0.10 0.17 tbIVehicleEF MDV 0.65 0.39 tbIVehicleEF MH 0.02 0.05 tbIVehicleEF MH 0.02 0.03 tbIVehicleEF MH 1.84 3.74 tbIVehicleEF MH 1.586.30 1.236.08 tbIVehicleEF MH 15.886.30 1.236.08 tbIVehicleEF MH 18.80 55.92 tbIVehicleEF MH 0.23 1.02 tbIVehicleEF MH 0.01 0.01 tbIVehicleEF MH 0.04 0.04 tbIVehicleEF MH 0.04 1.3450e-003 tbIVehicleEF MH 3.2980e-003 3.2330e-003 tbIVehicleEF MH 0.04 </td <td>tblVehicleEF</td> <td>MDV</td> <td>4.1510e-003</td> <td>5.0710e-003</td>	tblVehicleEF	MDV	4.1510e-003	5.0710e-003
tblVehicleEF MDV 0.20 0.25 tblVehicleEF MDV 0.04 0.04 tblVehicleEF MDV 0.03 0.05 tblVehicleEF MDV 0.10 0.17 tblVehicleEF MDV 0.65 0.39 tblVehicleEF MH 0.02 0.05 tblVehicleEF MH 0.02 0.03 tblVehicleEF MH 1.84 3.74 tblVehicleEF MH 1.586.30 1.236.08 tblVehicleEF MH 1.586.30 1.236.08 tblVehicleEF MH 1.880 58.92 tblVehicleEF MH 0.23 1.02 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 <td>tblVehicleEF</td> <td>MDV</td> <td>9.1200e-004</td> <td>1.2150e-003</td>	tblVehicleEF	MDV	9.1200e-004	1.2150e-003
tblVehicleEF MDV 0.04 0.04 tblVehicleEF MDV 0.03 0.05 tblVehicleEF MDV 0.10 0.17 tblVehicleEF MDV 0.65 0.39 tblVehicleEF MH 0.02 0.05 tblVehicleEF MH 0.02 0.03 tblVehicleEF MH 1.84 3.74 tblVehicleEF MH 1,586.30 1,236.08 tblVehicleEF MH 15.86.30 1,236.08 tblVehicleEF MH 18.80 58.92 tblVehicleEF MH 0.23 1.02 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 0.09 1.2370e-003 tblVehicleEF MH	tblVehicleEF	MDV	0.05	0.04
tblVehicleEF MDV 0.03 0.05 tblVehicleEF MDV 0.10 0.17 tblVehicleEF MDV 0.65 0.39 tblVehicleEF MH 0.02 0.05 tblVehicleEF MH 0.02 0.03 tblVehicleEF MH 1.84 3.74 tblVehicleEF MH 1,586.30 7.23 tblVehicleEF MH 18.80 58.92 tblVehicleEF MH 18.80 58.92 tblVehicleEF MH 0.23 1.02 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 0.00 1.237	tblVehicleEF	MDV	0.20	0.25
tblVehicleEF MDV 0.10 0.17 tblVehicleEF MDV 0.65 0.39 tblVehicleEF MH 0.02 0.05 tblVehicleEF MH 0.02 0.03 tblVehicleEF MH 1.84 3.74 tblVehicleEF MH 2.30 7.23 tblVehicleEF MH 1,586.30 1,236.08 tblVehicleEF MH 18.80 58.92 tblVehicleEF MH 2.15 2.06 tblVehicleEF MH 0.23 1.02 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 1.32 1.71 tblVehicleEF MH 0.08	tblVehicleEF	MDV	0.04	0.04
tblVehicleEF MDV 0.65 0.39 tblVehicleEF MH 0.02 0.05 tblVehicleEF MH 0.02 0.03 tblVehicleEF MH 1.84 3.74 tblVehicleEF MH 2.30 7.23 tblVehicleEF MH 1,586.30 1,236.08 tblVehicleEF MH 18.80 58.92 tblVehicleEF MH 2.15 2.06 tblVehicleEF MH 0.23 1.02 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 1.32 1.71 tblVehicleEF MH 0.08 0.11	tblVehicleEF	MDV	0.03	0.05
tbl/ehicleEF MH 0.02 0.05 tbl/ehicleEF MH 0.02 0.03 tbl/ehicleEF MH 1.84 3.74 tbl/ehicleEF MH 2.30 7.23 tbl/ehicleEF MH 1,586.30 1,236.08 tbl/ehicleEF MH 18.80 58.92 tbl/ehicleEF MH 2.15 2.06 tbl/ehicleEF MH 0.23 1.02 tbl/ehicleEF MH 0.01 0.01 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 2.8800e-004 1.3450e-003 tbl/ehicleEF MH 3.2980e-003 3.2330e-003 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 1.32 1.71 tbl/ehicleEF MH 1.32 1.71 tbl/ehicleEF MH 0.08 0.11	tblVehicleEF	MDV	0.10	0.17
tblVehicleEF MH 0.02 0.03 tblVehicleEF MH 1.84 3.74 tblVehicleEF MH 2.30 7.23 tblVehicleEF MH 1,596.30 1,236.08 tblVehicleEF MH 18.80 58.92 tblVehicleEF MH 2.15 2.06 tblVehicleEF MH 0.23 1.02 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 1.32 1.71 tblVehicleEF MH 0.08 0.11	tblVehicleEF	MDV	0.65	0.39
tblVehicleEF MH 1.84 3.74 tblVehicleEF MH 2.30 7.23 tblVehicleEF MH 1,586.30 1,236.08 tblVehicleEF MH 18.80 58.92 tblVehicleEF MH 2.15 2.06 tblVehicleEF MH 0.23 1.02 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 1.32 1.71 tblVehicleEF MH 0.08 0.11	tblVehicleEF	MH	0.02	0.05
tblVehicleEF MH 2.30 7.23 tblVehicleEF MH 1,586.30 1,236.08 tblVehicleEF MH 18.80 58.92 tblVehicleEF MH 2.15 2.06 tblVehicleEF MH 0.23 1.02 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 1.32 1.71 tblVehicleEF MH 1.32 1.71 tblVehicleEF MH 0.08 0.11	tblVehicleEF	MH	0.02	0.03
tblVehicleEF MH 1,586.30 1,236.08 tblVehicleEF MH 18.80 58.92 tblVehicleEF MH 2.15 2.06 tblVehicleEF MH 0.23 1.02 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 1.32 1.71 tblVehicleEF MH 0.08 0.11	tblVehicleEF	MH	1.84	3.74
tblVehicleEF MH 18.80 58.92 tblVehicleEF MH 2.15 2.06 tblVehicleEF MH 0.23 1.02 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 1.32 1.71 tblVehicleEF MH 0.08 0.11	tblVehicleEF	MH	2.30	7.23
tblVehicleEF MH 2.15 2.06 tblVehicleEF MH 0.23 1.02 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 1.32 1.71 tblVehicleEF MH 0.08 0.11	tblVehicleEF	MH	1,586.30	1,236.08
tblVehicleEF MH 0.23 1.02 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 1.32 1.71 tblVehicleEF MH 0.08 0.11	tblVehicleEF	MH	18.80	58.92
tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 1.32 1.71 tblVehicleEF MH 0.08 0.11	tblVehicleEF	MH	2.15	2.06
tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 1.32 1.71 tblVehicleEF MH 0.08 0.11	tblVehicleEF	MH	0.23	1.02
tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 1.32 1.71 tblVehicleEF MH 0.08 0.11	tblVehicleEF	MH	0.01	0.01
tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 1.32 1.71 tblVehicleEF MH 0.08 0.11	tblVehicleEF	MH	0.04	0.04
tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 1.32 1.71 tblVehicleEF MH 0.08 0.11	tblVehicleEF	MH	2.8800e-004	1.3450e-003
tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 1.32 1.71 tblVehicleEF MH 0.08 0.11	tblVehicleEF	MH	3.2980e-003	3.2330e-003
tblVehicleEF MH 1.32 1.71 tblVehicleEF MH 0.08 0.11	tblVehicleEF	MH	0.04	0.04
tblVehicleEF MH 0.08 0.11	tblVehicleEF	MH	2.6500e-004	1.2370e-003
ļ	tblVehicleEF	MH	1.32	1.71
tblVehicleFF MH 0.37 0.48	tblVehicleEF	MH	0.08	0.11
0.40	tblVehicleEF	MH	0.37	0.48
tblVehicleEF MH 0.11 0.16	tblVehicleEF	MH	0.11	0.16

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BIV-PhicloEF				
tbl/vehicleEF MH 0.02 0.01 tbl/vehicleEF MH 1.8600e-004 7.1500e-004 tbl/vehicleEF MH 1.32 1.71 bl/vehicleEF MH 0.08 0.11 bl/vehicleEF MH 0.37 0.48 tbl/vehicleF MH 0.15 0.22 tbl/vehicleF MH 0.02 0.03 tbl/vehicleF MH 0.02 0.03 tbl/vehicleF MH 0.02 0.05 bl/vehicleF MH 0.02 0.03 tbl/vehicleF MH 0.02 0.03 tbl/vehicleF MH 1.91 3.90 tbl/vehicleF MH 1.99 3.90 tbl/vehicleF MH 1.98 6.49 tbl/vehicleF MH 1.9843 58.92 tbl/vehicleF MH 1.9433 58.92 tbl/vehicleF MH 0.22 0.95 tbl/vehicleF MH 0.01 0.01 <td>tblVehicleEF</td> <td>MH</td> <td>0.02</td> <td>0.03</td>	tblVehicleEF	MH	0.02	0.03
tbVehicleEF MH 1.8600e-004 7.1500e-004 tbVehicleEF MH 1.32 1.71 tbVehicleEF MH 0.08 0.11 tbVehicleEF MH 0.037 0.48 tbVehicleEF MH 0.15 0.22 tbVehicleEF MH 0.02 0.03 tbVehicleEF MH 0.02 0.05 tbVehicleEF MH 0.02 0.03 tbVehicleEF MH 0.02 0.03 tbVehicleEF MH 1.91 3.90 tbVehicleEF MH 1.91 3.90 tbVehicleEF MH 1.8642 1.236.08 tbVehicleEF MH 1.8642 1.236.08 tbVehicleEF MH 1.843 58.92 tbVehicleEF MH 1.843 58.92 tbVehicleEF MH 0.01 0.01 tbVehicleEF MH 0.01 0.01 tbVehicleEF MH 0.04 0.04 <td>tblVehicleEF</td> <td>МН</td> <td>0.10</td> <td>0.41</td>	tblVehicleEF	МН	0.10	0.41
tbVehicleEF MH 1.32 1.71 tbVehicleEF MH 0.08 0.11 tbVehicleEF MH 0.37 0.48 tbVehicleEF MH 0.15 0.22 tbVehicleEF MH 0.02 0.03 tbVehicleEF MH 0.11 0.45 tbVehicleEF MH 0.02 0.05 tbVehicleEF MH 0.02 0.03 tbVehicleEF MH 0.02 0.03 tbVehicleEF MH 1.91 3.90 tbVehicleEF MH 1.96 4.9 tbVehicleEF MH 1.586.42 1.236.08 tbVehicleEF MH 1.843 58.92 tbVehicleEF MH 1.91 1.91 tbVehicleEF MH 0.21 1.91 tbVehicleEF MH 0.01 0.01 tbVehicleEF MH 0.04 0.04 tbVehicleEF MH 0.04 0.04 <t< td=""><td>tblVehicleEF</td><td>MH</td><td>0.02</td><td>0.01</td></t<>	tblVehicleEF	MH	0.02	0.01
tbl/ehicleEF MH 0.08 0.11 tbl/ehicleEF MH 0.37 0.48 tbl/ehicleEF MH 0.15 0.22 tbl/ehicleEF MH 0.02 0.03 tbl/ehicleEF MH 0.011 0.46 tbl/ehicleEF MH 0.02 0.05 tbl/ehicleEF MH 0.02 0.03 tbl/ehicleEF MH 1.91 3.90 tbl/ehicleEF MH 2.08 6.49 tbl/ehicleEF MH 1.586.42 1.236.08 tbl/ehicleEF MH 18.43 58.92 tbl/ehicleEF MH 18.43 58.92 tbl/ehicleEF MH 0.201 0.01 tbl/ehicleEF MH 0.02 0.95 tbl/ehicleEF MH 0.01 0.01 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 2.8800e-003 3.2330e-003 tbl/ehicleEF MH 0.04 0.	tblVehicleEF	MH	1.8600e-004	7.1500e-004
tblVehicleEF MH 0.37 0.48 tblVehicleEF MH 0.15 0.22 tblVehicleEF MH 0.02 0.03 tblVehicleEF MH 0.11 0.45 tblVehicleEF MH 0.02 0.05 tblVehicleEF MH 0.02 0.03 tblVehicleEF MH 1.91 3.90 tblVehicleEF MH 1.91 3.90 tblVehicleEF MH 1.586.42 1.236.08 tblVehicleEF MH 18.43 58.92 tblVehicleEF MH 1.843 58.92 tblVehicleEF MH 0.22 0.95 tblVehicleEF MH 0.02 0.04 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04	tblVehicleEF	MH	1.32	1.71
tbiVehicleEF MH 0.15 0.22 tbiVehicleEF MH 0.02 0.03 tbiVehicleEF MH 0.11 0.45 tbIVehicleEF MH 0.02 0.05 tbIVehicleEF MH 0.02 0.03 tbIVehicleEF MH 1.91 3.90 tbIVehicleEF MH 1.586.42 1.236.08 tbIVehicleEF MH 18.43 58.92 tbIVehicleEF MH 18.43 58.92 tbIVehicleEF MH 0.22 0.95 tbIVehicleEF MH 0.02 0.95 tbIVehicleEF MH 0.01 0.01 tbIVehicleEF MH 0.02 0.95 tbIVehicleEF MH 0.04 0.04 tbIVehicleEF MH 0.04 1.3450e-003 tbIVehicleEF MH 3.2880e-003 3.2330e-003 tbIVehicleEF MH 0.04 0.04 tbIVehicleEF MH 0.050e-004	tblVehicleEF	MH	0.08	0.11
tblVehicleEF MH 0.02 0.03 tblVehicleEF MH 0.11 0.45 tblVehicleEF MH 0.02 0.05 tblVehicleEF MH 0.02 0.03 tblVehicleEF MH 1.91 3.90 tblVehicleEF MH 1.586.42 1.236.08 tblVehicleEF MH 18.43 58.92 tblVehicleEF MH 18.43 58.92 tblVehicleEF MH 0.21 1.91 tblVehicleEF MH 0.22 0.95 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.230e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 0.00 0.04 tblVehicleEF MH 0.00 0.04 tblVehicleEF MH 0.00	tblVehicleEF	MH	0.37	0.48
tblVehideEF MH 0.11 0.45 tblVehideEF MH 0.02 0.05 tblVehideEF MH 0.02 0.03 tblVehideEF MH 1.91 3.90 tblVehideEF MH 1.586.42 1.236.08 tblVehideEF MH 1.586.42 1.236.08 tblVehideEF MH 1.843 58.92 tblVehideEF MH 2.01 1.91 tblVehideEF MH 0.22 0.95 tblVehideEF MH 0.01 0.01 tblVehideEF MH 0.04 0.04 tblVehideEF MH 3.2800e-003 3.230e-003 tblVehideEF MH 0.04 0.04 tblVehideEF MH 0.6500e-004 1.2370e-003 tblVehideEF MH 0.10 0.13 tblVehideEF MH 0.75 0.97 tblVehideEF MH 0.11 0.17	tblVehicleEF	MH	0.15	0.22
tblVehicleEF MH 0.02 0.05 tblVehicleEF MH 0.02 0.03 tblVehicleEF MH 1.91 3.90 tblVehicleEF MH 2.08 6.49 tblVehicleEF MH 1,586.42 1,236.08 tblVehicleEF MH 18.43 58.92 tblVehicleEF MH 2.01 1.91 tblVehicleEF MH 0.22 0.95 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 0.10 0.13 tblVehicleEF MH 0.10 0.13 tblVehicleEF MH 0.75 0.97 tblVehicleEF MH 0.11 0.17	tblVehicleEF	MH	0.02	0.03
tblVehicleEF MH 0.02 0.03 tblVehicleEF MH 1.91 3.90 tblVehicleEF MH 2.08 6.49 tblVehicleEF MH 1,586.42 1,236.08 tblVehicleEF MH 18.43 58.92 tblVehicleEF MH 2.01 1.91 tblVehicleEF MH 0.22 0.95 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 3.2980e-004 1.2370e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 3.32 4.30 tblVehicleEF MH 0.10 0.13 tblVehicleEF MH 0.75 0.97 tblVehicleEF MH 0.11 0.17	tblVehicleEF	MH	0.11	0.45
tblVehicleEF MH 1.91 3.90 tblVehicleEF MH 2.08 6.49 tblVehicleEF MH 1,586.42 1,236.08 tblVehicleEF MH 18.43 58.92 tblVehicleEF MH 2.01 1.91 tblVehicleEF MH 0.22 0.95 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 3.28800-004 1.34500-003 tblVehicleEF MH 3.29800-003 3.23300-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.65000-004 1.23700-003 tblVehicleEF MH 3.32 4.30 tblVehicleEF MH 0.10 0.13 tblVehicleEF MH 0.75 0.97 tblVehicleEF MH 0.11 0.17	tblVehicleEF	MH	0.02	0.05
tbl/ehicleEF MH 2.08 6.49 tbl/ehicleEF MH 1,586.42 1,236.08 tbl/ehicleEF MH 18.43 58.92 tbl/ehicleEF MH 2.01 1.91 tbl/ehicleEF MH 0.22 0.95 tbl/ehicleEF MH 0.01 0.01 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 3.2880e-004 1.3450e-003 tbl/ehicleEF MH 3.2980e-003 3.2330e-003 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 2.6500e-004 1.2370e-003 tbl/ehicleEF MH 3.32 4.30 tbl/ehicleEF MH 0.10 0.13 tbl/ehicleEF MH 0.75 0.97 tbl/ehicleEF MH 0.11 0.17	tblVehicleEF	MH	0.02	0.03
tblVehicleEF MH 1,586.42 1,236.08 tblVehicleEF MH 18.43 58.92 tblVehicleEF MH 2.01 1.91 tblVehicleEF MH 0.22 0.95 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 3.32 4.30 tblVehicleEF MH 0.10 0.13 tblVehicleEF MH 0.75 0.97 tblVehicleEF MH 0.11 0.17	tblVehicleEF	MH	1.91	3.90
tblVehicleEF MH 18.43 58.92 tblVehicleEF MH 2.01 1.91 tblVehicleEF MH 0.22 0.95 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 3.32 4.30 tblVehicleEF MH 0.10 0.13 tblVehicleEF MH 0.75 0.97 tblVehicleEF MH 0.11 0.17	tblVehicleEF	MH	2.08	6.49
tblVehicleEF MH 2.01 1.91 tblVehicleEF MH 0.22 0.95 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 3.32 4.30 tblVehicleEF MH 0.10 0.13 tblVehicleEF MH 0.75 0.97 tblVehicleEF MH 0.11 0.17	tblVehicleEF	MH	1,586.42	1,236.08
tblVehicleEF MH 0.22 0.95 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 3.32 4.30 tblVehicleEF MH 0.10 0.13 tblVehicleEF MH 0.75 0.97 tblVehicleEF MH 0.11 0.17	tblVehicleEF	MH	18.43	58.92
tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 3.32 4.30 tblVehicleEF MH 0.10 0.13 tblVehicleEF MH 0.75 0.97 tblVehicleEF MH 0.11 0.17	tblVehicleEF	MH	2.01	1.91
tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 3.32 4.30 tblVehicleEF MH 0.10 0.13 tblVehicleEF MH 0.75 0.97 tblVehicleEF MH 0.11 0.17	tblVehicleEF	MH	0.22	0.95
tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 3.32 4.30 tblVehicleEF MH 0.10 0.13 tblVehicleEF MH 0.75 0.97 tblVehicleEF MH 0.11 0.17	tblVehicleEF	MH	0.01	0.01
tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 3.32 4.30 tblVehicleEF MH 0.10 0.13 tblVehicleEF MH 0.75 0.97 tblVehicleEF MH 0.11 0.17	tblVehicleEF	MH	0.04	0.04
tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 3.32 4.30 tblVehicleEF MH 0.10 0.13 tblVehicleEF MH 0.75 0.97 tblVehicleEF MH 0.11 0.17	tblVehicleEF	MH	2.8800e-004	1.3450e-003
tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 3.32 4.30 tblVehicleEF MH 0.10 0.13 tblVehicleEF MH 0.75 0.97 tblVehicleEF MH 0.11 0.17	tblVehicleEF	MH	3.2980e-003	3.2330e-003
tblVehicleEF MH 3.32 4.30 tblVehicleEF MH 0.10 0.13 tblVehicleEF MH 0.75 0.97 tblVehicleEF MH 0.11 0.17	tblVehicleEF	MH	0.04	0.04
tblVehicleEF MH 0.10 0.13 tblVehicleEF MH 0.75 0.97 tblVehicleEF MH 0.11 0.17	tblVehicleEF	MH	2.6500e-004	1.2370e-003
tblVehicleEF MH 0.75 0.97 tblVehicleEF MH 0.11 0.17	tblVehicleEF	MH	3.32	4.30
tblVehicleEF MH 0.11 0.17	tblVehicleEF	MH	0.10	0.13
ļ	tblVehicleEF	MH	0.75	0.97
4.11/4.11-EE	tblVehicleEF	MH	0.11	0.17
TOIVENICIEEF MH 0.02 0.03	tblVehicleEF	MH	0.02	0.03

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tblVehicleEF	МН	0.10	0.38
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	1.8200e-004	7.0300e-004
tblVehicleEF	MH	3.32	4.30
tblVehicleEF	MH	0.10	0.13
tblVehicleEF	MH	0.75	0.97
tblVehicleEF	MH	0.15	0.23
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.11	0.42
tblVehicleEF	MH	0.02	0.05
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.78	3.59
tblVehicleEF	MH	2.53	8.04
tblVehicleEF	MH	1,586.19	1,236.08
tblVehicleEF	MH	19.19	58.92
tblVehicleEF	MH	2.21	2.14
tblVehicleEF	MH	0.25	1.09
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tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.8800e-004	1.3450e-003
tblVehicleEF	MH	3.2980e-003	3.2330e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.6500e-004	1.2370e-003
tblVehicleEF	MH	0.45	0.57
tblVehicleEF	MH	0.09	0.13
tblVehicleEF	MH	0.18	0.23
tblVehicleEF	MH	0.11	0.15
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.11	0.44

tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	MH MH MH MH MH MH	0.02 1.9000e-004 0.45 0.09 0.18	0.01 7.2900e-004 0.57 0.13 0.23
tblVehicleEF tblVehicleEF tblVehicleEF	MH MH MH	0.45 0.09 0.18	0.57 0.13
tblVehicleEF tblVehicleEF	MH MH MH	0.09	0.13
tblVehicleEF	MH MH	0.18	
ļ	МН		0.23
tblVehicleEF		0.14	!
		÷	0.21
tblVehicleEF	МН	0.03	0.03
tblVehicleEF	MH	0.12	0.49
tblVehicleEF	MHD	2.6500e-003	0.02
tblVehicleEF	MHD	5.6210e-003	4.9220e-003
tblVehicleEF	MHD	6.8290e-003	0.06
tblVehicleEF	MHD	0.35	0.32
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tblVehicleEF	MHD	1,112.28	1,206.01
tblVehicleEF	MHD	6.82	29.96
tblVehicleEF	MHD	0.66	0.98
tblVehicleEF	MHD	2.26	1.79
tblVehicleEF	MHD	1.45	15.84
tblVehicleEF	MHD	1.5800e-003	6.7710e-003
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tblVehicleEF	MHD	9.6000e-005	5.6200e-004
tblVehicleEF	MHD	1.5110e-003	6.4780e-003
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tblVehicleEF	MHD	8.9000e-005	5.1700e-004
tblVehicleEF	MHD	6.0300e-004	1.0290e-003
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.02	0.04

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tblVehicleEF	MHD	2.5700e-004	4.3500e-004
tblVehicleEF	MHD	0.10	0.07
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.04	0.22
tblVehicleEF	MHD	7.9100e-004	1.9790e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.7000e-005	3.6500e-004
tblVehicleEF	MHD	6.0300e-004	1.0290e-003
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	2.5700e-004	4.3500e-004
tblVehicleEF	MHD	0.12	0.09
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.04	0.24
tblVehicleEF	MHD	2.5010e-003	0.02
tblVehicleEF	MHD	5.6630e-003	4.9830e-003
tblVehicleEF	MHD	6.4640e-003	0.06
tblVehicleEF	MHD	0.29	0.23
tblVehicleEF	MHD	0.45	0.38
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tblVehicleEF	MHD	84.63	219.20
tblVehicleEF	MHD	1,112.29	1,206.01
tblVehicleEF	MHD	6.71	29.96
tblVehicleEF	MHD	0.66	1.01
tblVehicleEF	MHD	2.15	1.70
tblVehicleEF	MHD	1.45	15.81
tblVehicleEF	MHD	1.3350e-003	5.7080e-003
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tblVehicleEF	MHD	9.6000e-005	5.6200e-004

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tblVehicleEF	MHD	1.2770e-003	5.4610e-003
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tblVehicleEF	MHD	0.04	0.21
tblVehicleEF	MHD	8.0200e-004	2.0970e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.6000e-005	3.6000e-004
tblVehicleEF	MHD	1.5240e-003	2.5990e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	5.6900e-004	9.6400e-004
tblVehicleEF	MHD	0.12	0.09
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.04	0.23
tblVehicleEF	MHD	2.7990e-003	0.02
tblVehicleEF	MHD	5.5780e-003	4.8610e-003
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tblVehicleEF	MHD	82.15	189.96
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tblVehicleEF	MHD	1.9180e-003	8.2390e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	9.6000e-005	5.6200e-004
tblVehicleEF	MHD	1.8350e-003	7.8830e-003
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tblVehicleEF	MHD	8.9000e-005	5.1700e-004
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tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	1.0200e-004	1.7300e-004
tblVehicleEF	MHD	0.10	0.07
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.04	0.24
tblVehicleEF	MHD	7.7800e-004	1.8190e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9000e-005	3.7100e-004
tblVehicleEF	MHD	1.9600e-004	3.3400e-004
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	1.0200e-004	1.7300e-004
tblVehicleEF	MHD	0.12	0.09
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tblVehicleEF	OBUS	7.1170e-003	0.01
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tblVehicleEF	OBUS	0.02	0.04

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tblVehicleEF	OBUS	0.94	0.90
tblVehicleEF	OBUS	2.31	7.58
tblVehicleEF	OBUS	89.29	168.97
tblVehicleEF	OBUS	1,388.20	1,346.53
tblVehicleEF	OBUS	16.92	64.86
tblVehicleEF	OBUS	0.44	0.82
tblVehicleEF	OBUS	2.01	2.15
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tblVehicleEF	OBUS	8.4000e-004	1.7700e-004
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tblVehicleEF	OBUS	2.1380e-003	2.2850e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	7.4000e-004	7.9800e-004
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tblVehicleEF	OBUS	0.11	0.45
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tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	7.4000e-004	7.9800e-004

tblVehicleEF	OBUS	0.12	0.12
tblVehicleEF	OBUS	0.07	0.04
tblVehicleEF	OBUS	0.12	0.49
tblVehicleEF	OBUS	7.1740e-003	0.01
tblVehicleEF	OBUS	9.6990e-003	0.01
tblVehicleEF	OBUS	0.02	0.04
tblVehicleEF	OBUS	0.52	0.28
tblVehicleEF	OBUS	0.96	0.92
tblVehicleEF	OBUS	2.09	6.86
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tblVehicleEF	OBUS	16.55	64.86
tblVehicleEF	OBUS	0.43	0.85
tblVehicleEF	OBUS	1.89	2.03
tblVehicleEF	OBUS	0.94	3.86
tblVehicleEF	OBUS	7.4500e-004	1.5600e-004
tblVehicleEF	OBUS	0.03	8.9590e-003
tblVehicleEF	OBUS	1.6800e-004	9.0800e-004
tblVehicleEF	OBUS	7.1300e-004	1.4900e-004
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tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	1.4670e-003	1.5780e-003
tblVehicleEF	OBUS	0.10	0.10
tblVehicleEF	OBUS	0.07	0.04
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tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	1.4670e-003	1.5780e-003
tblVehicleEF	OBUS	0.12	0.12
tblVehicleEF	OBUS	0.07	0.04
tblVehicleEF	OBUS	0.11	0.46
tblVehicleEF	OBUS	7.0490e-003	0.01
tblVehicleEF	OBUS	9.2770e-003	0.01
tblVehicleEF	OBUS	0.02	0.04
tblVehicleEF	OBUS	0.55	0.34
tblVehicleEF	OBUS	0.92	0.88
tblVehicleEF	OBUS	2.54	8.34
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tblVehicleEF	OBUS	0.97	4.02
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tbl/ehicleEF OBUS 3,6200e-004 tbl/ehicleEF OBUS 3,6200e-004 tbl/ehicleEF OBUS 0.10 tbl/ehicleEF OBUS 0.07 tbl/ehicleEF OBUS 0.11 tbl/ehicleEF OBUS 8,5200e-004 tbl/ehicleEF OBUS 1,7100e-004 tbl/ehicleEF OBUS 1,77300e-004 tbl/ehicleEF OBUS 7,7300e-004 tbl/ehicleEF OBUS 0.02 tbl/ehicleEF OBUS 0.02 tbl/ehicleEF OBUS 0.05 tbl/ehicleEF OBUS 0.12 tbl/ehicleEF OBUS 0.07 tbl/ehicleEF OBUS 0.07 tbl/ehicleEF SBUS 0.05 tbl/ehicleEF SBUS 0.02 tbl/ehicleEF SBUS 0.02 tbl/ehicleEF SBUS 1.72 tbl/ehicleEF SBUS 1.19 tbl/ehicleEF SBUS 362.74 tbl/ehicleEF				
tbl/VehicleEF OBUS 0.10 tbl/VehicleEF OBUS 0.07 tbl/VehicleEF OBUS 0.11 tbl/VehicleEF OBUS 8.5200e-004 tbl/VehicleEF OBUS 0.01 tbl/VehicleEF OBUS 1.7100e-004 tbl/VehicleEF OBUS 7.7300e-004 tbl/VehicleEF OBUS 0.02 tbl/VehicleEF OBUS 0.06 tbl/VehicleEF OBUS 0.06 tbl/VehicleEF OBUS 0.12 tbl/VehicleEF OBUS 0.07 tbl/VehicleEF OBUS 0.07 tbl/VehicleEF OBUS 0.07 tbl/VehicleEF OBUS 0.07 tbl/VehicleEF SBUS 0.05 tbl/VehicleEF SBUS 0.05 tbl/VehicleEF SBUS 7.4650e-003 tbl/VehicleEF SBUS 1.72 tbl/VehicleEF SBUS 1.72 tbl/VehicleEF SBUS 1.19 tbl/VehicleEF	0.05	0.05	OBUS	tblVehicleEF
tblVehicleEF OBUS 0.07 tblVehicleEF OBUS 0.11 tblVehicleEF OBUS 8.5200e-004 tblVehicleEF OBUS 0.01 tblVehicleEF OBUS 1.7100e-004 tblVehicleEF OBUS 7.7300e-004 tblVehicleEF OBUS 0.02 tblVehicleEF OBUS 0.06 tblVehicleEF OBUS 0.06 tblVehicleEF OBUS 0.12 tblVehicleEF OBUS 0.07 tblVehicleEF SBUS 0.02 tblVehicleEF SBUS 0.02 tblVehicleEF SBUS 1.72 tblVehicleEF SBUS 1.19 tblVehicleEF SBUS 1.093.57 tblVehicleEF SBUS	3.9300e-004	3.6200e-004	OBUS	tblVehicleEF
tblVehicleEF OBUS 0.11 tblVehicleEF OBUS 8.5200e-004 tblVehicleEF OBUS 0.01 tblVehicleEF OBUS 1.7100e-004 tblVehicleEF OBUS 7.7300e-004 tblVehicleEF OBUS 0.02 tblVehicleEF OBUS 0.06 tblVehicleEF OBUS 0.06 tblVehicleEF OBUS 0.12 tblVehicleEF OBUS 0.07 tblVehicleEF OBUS 0.12 tblVehicleEF OBUS 0.07 tblVehicleEF OBUS 0.12 tblVehicleEF SBUS 0.05 tblVehicleEF SBUS 7.4630e-003 tblVehicleEF SBUS 1.72 tblVehicleEF SBUS 1.19 tblVehicleEF SBUS 362.74 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 3.59 tblVehicleEF SBUS 3.59 tblVehicleEF SBUS	0.10	0.10	OBUS	tblVehicleEF
tblVehicleEF OBUS 8.5200e-004 tblVehicleEF OBUS 0.01 tblVehicleEF OBUS 1.7100e-004 tblVehicleEF OBUS 7.7300e-004 tblVehicleEF OBUS 0.02 tblVehicleEF OBUS 0.06 tblVehicleEF OBUS 0.12 tblVehicleEF OBUS 0.07 tblVehicleEF OBUS 0.07 tblVehicleEF OBUS 0.05 tblVehicleEF SBUS 0.05 tblVehicleEF SBUS 0.02 tblVehicleEF SBUS 7.4630e-003 tblVehicleEF SBUS 1.72 tblVehicleEF SBUS 1.19 tblVehicleEF SBUS 1.19 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 3.59 tblVehicleEF SBUS 5.21 tblVehicleEF SBUS 0.60	0.04	0.07	OBUS	tblVehicleEF
tblVehicleEF OBUS 0.01 tblVehicleEF OBUS 1.7100e-004 tblVehicleEF OBUS 7.7300e-004 tblVehicleEF OBUS 0.02 tblVehicleEF OBUS 0.06 tblVehicleEF OBUS 3.6200e-004 tblVehicleEF OBUS 0.12 tblVehicleEF OBUS 0.07 tblVehicleEF OBUS 0.02 tblVehicleEF SBUS 0.05 tblVehicleEF SBUS 0.02 tblVehicleEF SBUS 7.4630e-003 tblVehicleEF SBUS 1.72 tblVehicleEF SBUS 1.19 tblVehicleEF SBUS 1.19 tblVehicleEF SBUS 362.74 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 3.59 tblVehicleEF SBUS 5.21 tblVehicleEF SBUS 0.60	0.48	0.11	OBUS	tblVehicleEF
tbl/ehicleEF OBUS 1.7100e-004 tbl/ehicleEF OBUS 7.7300e-004 tbl/ehicleEF OBUS 0.02 tbl/ehicleEF OBUS 0.06 tbl/ehicleEF OBUS 3.6200e-004 tbl/ehicleEF OBUS 0.12 tbl/ehicleEF OBUS 0.07 tbl/ehicleEF OBUS 0.12 tbl/ehicleEF SBUS 0.05 tbl/ehicleEF SBUS 0.02 tbl/ehicleEF SBUS 7.4630e-003 tbl/ehicleEF SBUS 1.72 tbl/ehicleEF SBUS 1.19 tbl/ehicleEF SBUS 362.74 tbl/ehicleEF SBUS 5.19 tbl/ehicleEF SBUS 5.19 tbl/ehicleEF SBUS 5.21 tbl/ehicleEF SBUS 5.21 tbl/ehicleEF SBUS 0.60	1.5040e-003	8.5200e-004	OBUS	tblVehicleEF
tblVehicleEF OBUS 7,7300e-004 tblVehicleEF OBUS 0.02 tblVehicleEF OBUS 0.06 tblVehicleEF OBUS 3,6200e-004 tblVehicleEF OBUS 0,12 tblVehicleEF OBUS 0,07 tblVehicleEF OBUS 0,12 tblVehicleEF SBUS 0,05 tblVehicleEF SBUS 0,02 tblVehicleEF SBUS 7,4630e-003 tblVehicleEF SBUS 2,25 tblVehicleEF SBUS 1,72 tblVehicleEF SBUS 1,19 tblVehicleEF SBUS 362,74 tblVehicleEF SBUS 5,19 tblVehicleEF SBUS 5,19 tblVehicleEF SBUS 3,59 tblVehicleEF SBUS 5,21 tblVehicleEF SBUS 0,60	0.01	0.01	OBUS	tblVehicleEF
tbl/ehicleEF OBUS 0.02 tbl/ehicleEF OBUS 0.06 tbl/ehicleEF OBUS 3.6200e-004 tbl/ehicleEF OBUS 0.12 tbl/ehicleEF OBUS 0.07 tbl/ehicleEF OBUS 0.12 tbl/ehicleEF SBUS 0.05 tbl/ehicleEF SBUS 0.02 tbl/ehicleEF SBUS 7.4630e-003 tbl/ehicleEF SBUS 1.72 tbl/ehicleEF SBUS 1.72 tbl/ehicleEF SBUS 1.19 tbl/ehicleEF SBUS 362.74 tbl/ehicleEF SBUS 5.19 tbl/ehicleEF SBUS 5.19 tbl/ehicleEF SBUS 3.59 tbl/ehicleEF SBUS 5.21 tbl/ehicleEF SBUS 0.60	7.9400e-004	1.7100e-004	OBUS	tblVehicleEF
tblVehicleEF OBUS 0.06 tblVehicleEF OBUS 3.6200e-004 tblVehicleEF OBUS 0.12 tblVehicleEF OBUS 0.07 tblVehicleEF OBUS 0.12 tblVehicleEF SBUS 0.05 tblVehicleEF SBUS 0.02 tblVehicleEF SBUS 7.4630e-003 tblVehicleEF SBUS 2.25 tblVehicleEF SBUS 1.72 tblVehicleEF SBUS 1.19 tblVehicleEF SBUS 362.74 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 3.59 tblVehicleEF SBUS 5.21 tblVehicleEF SBUS 0.60	8.3600e-004	7.7300e-004	OBUS	tblVehicleEF
tblVehicleEF OBUS 3.6200e-004 tblVehicleEF OBUS 0.12 tblVehicleEF OBUS 0.07 tblVehicleEF OBUS 0.12 tblVehicleEF SBUS 0.05 tblVehicleEF SBUS 0.02 tblVehicleEF SBUS 7.4630e-003 tblVehicleEF SBUS 2.25 tblVehicleEF SBUS 1.72 tblVehicleEF SBUS 1.19 tblVehicleEF SBUS 362.74 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 3.59 tblVehicleEF SBUS 5.21 tblVehicleEF SBUS 0.60	0.02	0.02	OBUS	tblVehicleEF
tblVehicleEF OBUS 0.12 tblVehicleEF OBUS 0.07 tblVehicleEF OBUS 0.12 tblVehicleEF SBUS 0.05 tblVehicleEF SBUS 0.02 tblVehicleEF SBUS 7.4630e-003 tblVehicleEF SBUS 2.25 tblVehicleEF SBUS 1.72 tblVehicleEF SBUS 1.19 tblVehicleEF SBUS 362.74 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 3.59 tblVehicleEF SBUS 5.21 tblVehicleEF SBUS 0.60	0.06	0.06	OBUS	tblVehicleEF
tblVehicleEF OBUS 0.07 tblVehicleEF OBUS 0.12 tblVehicleEF SBUS 0.05 tblVehicleEF SBUS 0.02 tblVehicleEF SBUS 7.4630e-003 tblVehicleEF SBUS 2.25 tblVehicleEF SBUS 1.72 tblVehicleEF SBUS 1.19 tblVehicleEF SBUS 362.74 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 3.59 tblVehicleEF SBUS 5.21 tblVehicleEF SBUS 0.60	3.9300e-004	3.6200e-004	OBUS	tblVehicleEF
tblVehicleEF OBUS 0.12 tblVehicleEF SBUS 0.05 tblVehicleEF SBUS 0.02 tblVehicleEF SBUS 7.4630e-003 tblVehicleEF SBUS 2.25 tblVehicleEF SBUS 1.72 tblVehicleEF SBUS 1.19 tblVehicleEF SBUS 362.74 tblVehicleEF SBUS 1,093.57 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 3.59 tblVehicleEF SBUS 5.21 tblVehicleEF SBUS 0.60	0.12	0.12	OBUS	tblVehicleEF
tbl/ehicleEF SBUS 0.05 tbl/ehicleEF SBUS 0.02 tbl/ehicleEF SBUS 7.4630e-003 tbl/ehicleEF SBUS 2.25 tbl/ehicleEF SBUS 1.72 tbl/ehicleEF SBUS 1.19 tbl/ehicleEF SBUS 362.74 tbl/ehicleEF SBUS 1,093.57 tbl/ehicleEF SBUS 5.19 tbl/ehicleEF SBUS 3.59 tbl/ehicleEF SBUS 5.21 tbl/ehicleEF SBUS 0.60	0.04	0.07	OBUS	tblVehicleEF
tblVehicleEF SBUS 0.02 tblVehicleEF SBUS 7.4630e-003 tblVehicleEF SBUS 2.25 tblVehicleEF SBUS 1.72 tblVehicleEF SBUS 1.19 tblVehicleEF SBUS 362.74 tblVehicleEF SBUS 1,093.57 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 3.59 tblVehicleEF SBUS 5.21 tblVehicleEF SBUS 0.60	0.52	0.12	OBUS	tblVehicleEF
tblVehicleEF SBUS 7.4630e-003 tblVehicleEF SBUS 2.25 tblVehicleEF SBUS 1.72 tblVehicleEF SBUS 1.19 tblVehicleEF SBUS 362.74 tblVehicleEF SBUS 1,093.57 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 3.59 tblVehicleEF SBUS 5.21 tblVehicleEF SBUS 0.60	0.80	0.05	SBUS	tblVehicleEF
tblVehicleEF SBUS 2.25 tblVehicleEF SBUS 1.72 tblVehicleEF SBUS 1.19 tblVehicleEF SBUS 362.74 tblVehicleEF SBUS 1,093.57 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 3.59 tblVehicleEF SBUS 5.21 tblVehicleEF SBUS 0.60	0.02	0.02	SBUS	tblVehicleEF
tblVehicleEF SBUS 1.72 tblVehicleEF SBUS 1.19 tblVehicleEF SBUS 362.74 tblVehicleEF SBUS 1,093.57 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 3.59 tblVehicleEF SBUS 5.21 tblVehicleEF SBUS 0.60	0.07	7.4630e-003	SBUS	tblVehicleEF
tblVehicleEF SBUS 1.19 tblVehicleEF SBUS 362.74 tblVehicleEF SBUS 1,093.57 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 3.59 tblVehicleEF SBUS 5.21 tblVehicleEF SBUS 0.60	8.35	2.25	SBUS	tblVehicleEF
tblVehicleEF SBUS 362.74 tblVehicleEF SBUS 1,093.57 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 3.59 tblVehicleEF SBUS 5.21 tblVehicleEF SBUS 0.60	0.96	1.72	SBUS	tblVehicleEF
tblVehicleEF SBUS 1,093.57 tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 3.59 tblVehicleEF SBUS 5.21 tblVehicleEF SBUS 0.60	9.02	1.19	SBUS	tblVehicleEF
tblVehicleEF SBUS 5.19 tblVehicleEF SBUS 3.59 tblVehicleEF SBUS 5.21 tblVehicleEF SBUS 0.60	1,103.94	362.74	SBUS	tblVehicleEF
tblVehicleEF SBUS 3.59 tblVehicleEF SBUS 5.21 tblVehicleEF SBUS 0.60	1,031.21	1,093.57	SBUS	tblVehicleEF
tblVehicleEF SBUS 5.21 tblVehicleEF SBUS 0.60	59.88	5.19	SBUS	tblVehicleEF
tblVehicleEF SBUS 0.60	8.85	3.59	SBUS	tblVehicleEF
ļ <u>i</u>	3.80	5.21	SBUS	tblVehicleEF
#bl/objete CDIC 2,9500,002	11.63	0.60	SBUS	tblVehicleEF
IDIVERIICIEEF 3B03 3.0300e-003	9.0020e-003	3.8500e-003	SBUS	tblVehicleEF
tblVehicleEF SBUS 0.01	0.01	0.01	SBUS	tblVehicleEF

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tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	SBUS SBUS SBUS SBUS	0.03 5.2000e-005 3.6830e-003	0.02 6.3400e-004 8.6120e-003
tblVehicleEF tblVehicleEF	SBUS		
tblVehicleEF		3.6830e-003	8 6120003
	SBUS		0.01206-000
		2.7010e-003	2.5800e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	4.8000e-005	5.8300e-004
tblVehicleEF	SBUS	1.1380e-003	5.6690e-003
tblVehicleEF	SBUS	0.01	0.04
tblVehicleEF	SBUS	0.26	0.98
tblVehicleEF	SBUS	4.2600e-004	1.9690e-003
tblVehicleEF	SBUS	0.14	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.05	0.45
tblVehicleEF	SBUS	3.4540e-003	0.01
tblVehicleEF	SBUS	0.01	9.9760e-003
tblVehicleEF	SBUS	5.1000e-005	7.5400e-004
tblVehicleEF	SBUS	1.1380e-003	5.6690e-003
tblVehicleEF	SBUS	0.01	0.04
tblVehicleEF	SBUS	0.37	1.42
tblVehicleEF	SBUS	4.2600e-004	1.9690e-003
tblVehicleEF	SBUS	0.18	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.05	0.49
tblVehicleEF	SBUS	0.05	0.80
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	6.0170e-003	0.06
tblVehicleEF	SBUS	2.20	8.24
tblVehicleEF	SBUS	1.77	0.98
tblVehicleEF	SBUS	0.80	6.11

tblVehicleEF	SBUS	374.58	1,151.97
tblVehicleEF	SBUS	1,093.66	1,031.21
tblVehicleEF	SBUS	4.55	59.88
tblVehicleEF	SBUS	3.69	9.13
tblVehicleEF	SBUS	4.91	3.59
tblVehicleEF	SBUS	0.60	11.58
tblVehicleEF	SBUS	3.2530e-003	7.5880e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	5.2000e-005	6.3400e-004
tblVehicleEF	SBUS	3.1120e-003	7.2600e-003
tblVehicleEF	SBUS	2.7010e-003	2.5800e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	4.8000e-005	5.8300e-004
tblVehicleEF	SBUS	2.7800e-003	0.01
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.26	0.98
tblVehicleEF	SBUS	8.1800e-004	3.8470e-003
tblVehicleEF	SBUS	0.14	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.04	0.36
tblVehicleEF	SBUS	3.5660e-003	0.01
tblVehicleEF	SBUS	0.01	9.9760e-003
tblVehicleEF	SBUS	4.5000e-005	7.0600e-004
tblVehicleEF	SBUS	2.7800e-003	0.01
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.37	1.41
tblVehicleEF	SBUS	8.1800e-004	3.8470e-003
tblVehicleEF	SBUS	0.19	0.13

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tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.04	0.40
tblVehicleEF	SBUS	0.05	0.80
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	8.7930e-003	0.08
tblVehicleEF	SBUS	2.31	8.50
tblVehicleEF	SBUS	1.68	0.93
tblVehicleEF	SBUS	1.57	11.95
tblVehicleEF	SBUS	346.40	1,037.60
tblVehicleEF	SBUS	1,093.49	1,031.21
tblVehicleEF	SBUS	5.83	59.88
tblVehicleEF	SBUS	3.46	8.46
tblVehicleEF	SBUS	5.33	3.88
tblVehicleEF	SBUS	0.61	11.68
tblVehicleEF	SBUS	4.6740e-003	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	5.2000e-005	6.3400e-004
tblVehicleEF	SBUS	4.4720e-003	0.01
tblVehicleEF	SBUS	2.7010e-003	2.5800e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	4.8000e-005	5.8300e-004
tblVehicleEF	SBUS	4.4500e-004	2.1100e-003
tblVehicleEF	SBUS	0.01	0.04
tblVehicleEF	SBUS	0.26	0.98
tblVehicleEF	SBUS	2.1600e-004	9.8800e-004
tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	0.05	0.53

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tblVehicleEF	SBUS	3.2990e-003	0.01
tblVehicleEF	SBUS	0.01	9.9750e-003
tblVehicleEF	SBUS	5.8000e-005	8.0300e-004
tblVehicleEF	SBUS	4.4500e-004	2.1100e-003
tblVehicleEF	SBUS	0.01	0.04
tblVehicleEF	SBUS	0.37	1.42
tblVehicleEF	SBUS	2.1600e-004	9.8800e-004
tblVehicleEF	SBUS	0.18	0.13
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	0.06	0.58
tblVehicleEF	UBUS	2.51	1.25
tblVehicleEF	UBUS	0.02	0.09
tblVehicleEF	UBUS	18.67	10.38
tblVehicleEF	UBUS	1.44	16.27
tblVehicleEF	UBUS	1,779.74	2,021.35
tblVehicleEF	UBUS	16.50	111.40
tblVehicleEF	UBUS	1.33	11.24
tblVehicleEF	UBUS	0.15	15.14
tblVehicleEF	UBUS	0.09	0.58
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	4.4680e-003	0.20
tblVehicleEF	UBUS	1.3800e-004	1.5470e-003
tblVehicleEF	UBUS	0.04	0.25
tblVehicleEF	UBUS	6.0960e-003	3.0000e-003
tblVehicleEF	UBUS	4.2610e-003	0.19
tblVehicleEF	UBUS	1.2700e-004	1.4220e-003
tblVehicleEF	UBUS	7.7000e-004	9.0800e-003
tblVehicleEF	UBUS	6.9410e-003	0.12
tblVehicleEF	UBUS	3.8100e-004	3.2360e-003

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tblVehicleEF tblVehicleEF	UBUS UBUS UBUS UBUS UBUS UBUS UBUS UBUS	0.04 1.8410e-003 0.09 9.0160e-003 1.6300e-004 7.7000e-004 6.9410e-003 3.8100e-004 2.57 1.8410e-003	0.91 0.03 1.20 0.01 1.4070e-003 9.0800e-003 0.12 3.2360e-003 2.24
tblVehicleEF	UBUS UBUS UBUS UBUS UBUS UBUS UBUS UBUS	0.09 9.0160e-003 1.6300e-004 7.7000e-004 6.9410e-003 3.8100e-004 2.57	1.20 0.01 1.4070e-003 9.0800e-003 0.12 3.2360e-003
tblVehicleEF	UBUS UBUS UBUS UBUS UBUS UBUS UBUS UBUS	9.0160e-003 1.6300e-004 7.7000e-004 6.9410e-003 3.8100e-004 2.57	0.01 1.4070e-003 9.0800e-003 0.12 3.2360e-003
tblVehicleEF	UBUS UBUS UBUS UBUS UBUS UBUS UBUS	1.6300e-004 7.7000e-004 6.9410e-003 3.8100e-004 2.57	1.4070e-003 9.0800e-003 0.12 3.2360e-003
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	UBUS UBUS UBUS UBUS UBUS UBUS UBUS	7.7000e-004 6.9410e-003 3.8100e-004 2.57	9.0800e-003 0.12 3.2360e-003
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	UBUS UBUS UBUS UBUS UBUS UBUS	6.9410e-003 3.8100e-004 2.57	0.12 3.2360e-003
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	UBUS UBUS UBUS UBUS	3.8100e-004 2.57	3.2360e-003
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	UBUS UBUS UBUS	2.57	
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	UBUS UBUS		2.24
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	UBUS	1.8410e-003	1
tblVehicleEF tblVehicleEF tblVehicleEF			0.03
tblVehicleEF tblVehicleEF	I IDI IC	0.10	1.31
tblVehicleEF	UDUS	2.51	1.26
ļ	UBUS	0.02	0.08
_ 	UBUS	18.67	10.53
tblVehicleEF	UBUS	1.17	12.94
tblVehicleEF	UBUS	1,779.75	2,021.35
tblVehicleEF	UBUS	16.03	111.40
tblVehicleEF	UBUS	1.32	10.61
tblVehicleEF	UBUS	0.14	15.01
tblVehicleEF	UBUS	0.09	0.58
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	4.4680e-003	0.20
tblVehicleEF	UBUS	1.3800e-004	1.5470e-003
tblVehicleEF	UBUS	0.04	0.25
tblVehicleEF	UBUS	6.0960e-003	3.0000e-003
tblVehicleEF	UBUS	4.2610e-003	0.19
tblVehicleEF	UBUS	1.2700e-004	1.4220e-003
tblVehicleEF	UBUS	1.9430e-003	0.02
tblVehicleEF	•	L	!

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tblVehicleEF	UBUS	8.1500e-004	7.1170e-003				
tblVehicleEF	UBUS	0.04	0.93				
tblVehicleEF	UBUS	1.7420e-003	0.03				
tblVehicleEF	UBUS	0.08	1.05				
tblVehicleEF	UBUS	9.0160e-003	0.01				
tblVehicleEF	UBUS	1.5900e-004	1.3500e-003				
tblVehicleEF	UBUS	1.9430e-003	0.02				
tblVehicleEF	UBUS	8.8600e-003	0.16				
tblVehicleEF	UBUS	8.1500e-004	7.1170e-003				
tblVehicleEF	UBUS	2.57	2.27				
tblVehicleEF	UBUS	1.7420e-003	0.03				
tblVehicleEF	UBUS	0.09	1.14				
tblVehicleEF	UBUS	2.51	1.24				
tblVehicleEF	UBUS	0.02	0.10				
tblVehicleEF	UBUS	18.66	10.24				
tblVehicleEF	UBUS	1.74	19.89				
tblVehicleEF	UBUS	1,779.74	2,021.35				
tblVehicleEF	UBUS	17.01	111.40				
tblVehicleEF	UBUS	1.33	11.48				
tblVehicleEF	UBUS	0.16	15.27				
tblVehicleEF	UBUS	0.09	0.58				
tblVehicleEF	UBUS	0.02	0.01				
tblVehicleEF	UBUS	4.4680e-003	0.20				
tblVehicleEF	UBUS	1.3800e-004	1.5470e-003				
tblVehicleEF	UBUS	0.04	0.25				
tblVehicleEF	UBUS	6.0960e-003	3.0000e-003				
tblVehicleEF	UBUS	4.2610e-003	0.19				
tblVehicleEF	UBUS	1.2700e-004 1.422					
tblVehicleEF	UBUS	2.7900e-004 3.2250e-003					

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	UBUS	6.9020e-003	0.14
tblVehicleEF	UBUS	1.7300e-004	1.4550e-003
tblVehicleEF	UBUS	0.04	0.89
tblVehicleEF	UBUS	2.2650e-003	0.04
tblVehicleEF	UBUS	0.10	1.36
tblVehicleEF	UBUS	9.0160e-003	0.01
tblVehicleEF	UBUS	1.6800e-004	1.4690e-003
tblVehicleEF	UBUS	2.7900e-004	3.2250e-003
tblVehicleEF	UBUS	6.9020e-003	0.14
tblVehicleEF	UBUS	1.7300e-004	1.4550e-003
tblVehicleEF	UBUS	2.57	2.21
tblVehicleEF	UBUS	2.2650e-003	0.04
tblVehicleEF	UBUS	0.11	1.49
tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips	ST_TR	2.12	0.00
tblVehicleTrips	SU_TR	5.09	0.00
tblVehicleTrips	SU_TR	2.12	0.00
tblVehicleTrips	WD_TR	3.93	0.00
tblVehicleTrips	WD_TR	2.12	0.00
tblWater	IndoorWaterUseRate	29,368,750.00	0.00
tblWater	IndoorWaterUseRate	9,018,750.00	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					ton	s/yr							MT	/yr		
2021	1.0319	6.2239	4.2246	0.0110	1.2138	0.2693	1.4831	0.5415	0.2500	0.7916	0.0000	992.5610	992.5610	0.1722	0.0552	1,013.310 6
2022	0.8113	0.2762	0.3881	6.4000e- 004	8.3700e- 003	0.0142	0.0226	2.2200e- 003	0.0132	0.0154	0.0000	56.2570	56.2570	0.0148	2.2000e- 004	56.6930
Maximum	1.0319	6.2239	4.2246	0.0110	1.2138	0.2693	1.4831	0.5415	0.2500	0.7916	0.0000	992.5610	992.5610	0.1722	0.0552	1,013.310 6

Mitigated Construction

	ROG	NOx	СО	SO2	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					ton	s/yr							MT	/yr		
2021	1.0319	6.2239	4.2246	0.0110	0.6581	0.2693	0.9274	0.2741	0.2500	0.5242	0.0000	992.5603	992.5603	0.1722	0.0552	1,013.309 9
2022	0.8113	0.2762	0.3881	6.4000e- 004	8.3700e- 003	0.0142	0.0226	2.2200e- 003	0.0132	0.0154	0.0000	56.2569	56.2569	0.0148	2.2000e- 004	56.6930
Maximum	1.0319	6.2239	4.2246	0.0110	0.6581	0.2693	0.9274	0.2741	0.2500	0.5242	0.0000	992.5603	992.5603	0.1722	0.0552	1,013.309 9

	ROG	NOx	СО	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	45.47	0.00	36.91	49.18	0.00	33.13	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-8-2021	5-7-2021	4.8123	4.8123
2	5-8-2021	8-7-2021	1.0184	1.0184
3	8-8-2021	11-7-2021	0.8287	0.8287
4	11-8-2021	2-7-2022	0.9936	0.9936
5	2-8-2022	5-7-2022	0.4632	0.4632
6	5-8-2022	8-7-2022	0.1128	0.1128
		Highest	4.8123	4.8123

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					ton	s/yr							MT	/yr		
Area	3.5000e- 004	3.0000e- 005	3.8000e- 003	0.0000		1.0000e- 005	1.0000e- 005	 	1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003
Energy	0.0000	0.0000	0.0000	0.0000	 	0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.5000e- 004	3.0000e- 005	3.8000e- 003	0.0000	0.0000	1.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003

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2.2 Overall Operational

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					ton	s/yr							MT	/yr		
Area	3.5000e- 004	3.0000e- 005	3.8000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste	n		,			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water	n		,			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.5000e- 004	3.0000e- 005	3.8000e- 003	0.0000	0.0000	1.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003

	ROG	NOx	СО	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/8/2021	5/7/2021	5	65	
2	Site Preparation	Site Preparation	2/8/2021	5/14/2021	5	70	
3	Grading	Grading	2/8/2021	5/14/2021	5	70	

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•	4	Building Construction	Building Construction	5/18/2021	11/9/2021	5	126	
Ę	5	Architectural Coating	Architectural Coating	12/1/2021	2/28/2022	5	64	
	6	Paving	Paving	4/1/2022	6/1/2022	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 5.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 249,000; Non-Residential Outdoor: 83,000; Striped Parking Area: 14,830

(Architectural Coating - sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42

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Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

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
Demolition	6	15.00	0.00	965.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	7,200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	174.00	68.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	35.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust	ii ii				0.1044	0.0000	0.1044	0.0158	0.0000	0.0158	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1029	1.0218	0.7009	1.2600e- 003		0.0504	0.0504		0.0468	0.0468	0.0000	110.5026	110.5026	0.0311	0.0000	111.2801
Total	0.1029	1.0218	0.7009	1.2600e- 003	0.1044	0.0504	0.1548	0.0158	0.0468	0.0627	0.0000	110.5026	110.5026	0.0311	0.0000	111.2801

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3.2 Demolition - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr				MT	/yr					
Hauling	2.8900e- 003	0.0856	0.0167	3.0000e- 004	8.2400e- 003	1.2700e- 003	9.5100e- 003	2.2700e- 003	1.2100e- 003	3.4800e- 003	0.0000	29.2242	29.2242	2.2000e- 004	4.6000e- 003	30.5995
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	1.9100e- 003	1.3700e- 003	0.0155	4.0000e- 005	3.9000e- 003	2.0000e- 005	3.9200e- 003	1.0400e- 003	2.0000e- 005	1.0600e- 003	0.0000	3.3447	3.3447	1.3000e- 004	1.1000e- 004	3.3812
Total	4.8000e- 003	0.0870	0.0321	3.4000e- 004	0.0121	1.2900e- 003	0.0134	3.3100e- 003	1.2300e- 003	4.5400e- 003	0.0000	32.5689	32.5689	3.5000e- 004	4.7100e- 003	33.9806

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/уг		
Fugitive Dust	 				0.0470	0.0000	0.0470	7.1100e- 003	0.0000	7.1100e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.1029	1.0218	0.7009	1.2600e- 003		0.0504	0.0504		0.0468	0.0468	0.0000	110.5024	110.5024	0.0311	0.0000	111.2800
Total	0.1029	1.0218	0.7009	1.2600e- 003	0.0470	0.0504	0.0974	7.1100e- 003	0.0468	0.0540	0.0000	110.5024	110.5024	0.0311	0.0000	111.2800

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3.2 Demolition - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	2.8900e- 003	0.0856	0.0167	3.0000e- 004	8.2400e- 003	1.2700e- 003	9.5100e- 003	2.2700e- 003	1.2100e- 003	3.4800e- 003	0.0000	29.2242	29.2242	2.2000e- 004	4.6000e- 003	30.5995
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	1.9100e- 003	1.3700e- 003	0.0155	4.0000e- 005	3.9000e- 003	2.0000e- 005	3.9200e- 003	1.0400e- 003	2.0000e- 005	1.0600e- 003	0.0000	3.3447	3.3447	1.3000e- 004	1.1000e- 004	3.3812
Total	4.8000e- 003	0.0870	0.0321	3.4000e- 004	0.0121	1.2900e- 003	0.0134	3.3100e- 003	1.2300e- 003	4.5400e- 003	0.0000	32.5689	32.5689	3.5000e- 004	4.7100e- 003	33.9806

3.3 Site Preparation - 2021

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					ton	s/yr							MT	/yr		
Fugitive Dust					0.6323	0.0000	0.6323	0.3476	0.0000	0.3476	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1361	1.4174	0.7404	1.3300e- 003		0.0716	0.0716		0.0658	0.0658	0.0000	117.0250	117.0250	0.0379	0.0000	117.9712
Total	0.1361	1.4174	0.7404	1.3300e- 003	0.6323	0.0716	0.7039	0.3476	0.0658	0.4134	0.0000	117.0250	117.0250	0.0379	0.0000	117.9712

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3.3 Site Preparation - 2021

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					ton	s/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	2.4600e- 003	1.7700e- 003	0.0200	5.0000e- 005	5.0300e- 003	3.0000e- 005	5.0700e- 003	1.3400e- 003	3.0000e- 005	1.3700e- 003	0.0000	4.3224	4.3224	1.7000e- 004	1.4000e- 004	4.3695
Total	2.4600e- 003	1.7700e- 003	0.0200	5.0000e- 005	5.0300e- 003	3.0000e- 005	5.0700e- 003	1.3400e- 003	3.0000e- 005	1.3700e- 003	0.0000	4.3224	4.3224	1.7000e- 004	1.4000e- 004	4.3695

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					ton	s/yr							MT	/yr		
Fugitive Dust					0.2845	0.0000	0.2845	0.1564	0.0000	0.1564	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1361	1.4174	0.7404	1.3300e- 003		0.0716	0.0716	 	0.0658	0.0658	0.0000	117.0249	117.0249	0.0379	0.0000	117.9711
Total	0.1361	1.4174	0.7404	1.3300e- 003	0.2845	0.0716	0.3561	0.1564	0.0658	0.2222	0.0000	117.0249	117.0249	0.0379	0.0000	117.9711

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3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/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	2.4600e- 003	1.7700e- 003	0.0200	5.0000e- 005	5.0300e- 003	3.0000e- 005	5.0700e- 003	1.3400e- 003	3.0000e- 005	1.3700e- 003	0.0000	4.3224	4.3224	1.7000e- 004	1.4000e- 004	4.3695
Total	2.4600e- 003	1.7700e- 003	0.0200	5.0000e- 005	5.0300e- 003	3.0000e- 005	5.0700e- 003	1.3400e- 003	3.0000e- 005	1.3700e- 003	0.0000	4.3224	4.3224	1.7000e- 004	1.4000e- 004	4.3695

3.4 Grading - 2021

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					ton	s/yr							МТ	/yr		
Fugitive Dust					0.2737	0.0000	0.2737	0.1228	0.0000	0.1228	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1467	1.6240	1.0808	2.1700e- 003		0.0695	0.0695		0.0639	0.0639	0.0000	190.7324	190.7324	0.0617	0.0000	192.2746
Total	0.1467	1.6240	1.0808	2.1700e- 003	0.2737	0.0695	0.3432	0.1228	0.0639	0.1867	0.0000	190.7324	190.7324	0.0617	0.0000	192.2746

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3.4 Grading - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0216	0.6389	0.1243	2.2700e- 003	0.0615	9.4700e- 003	0.0710	0.0169	9.0600e- 003	0.0260	0.0000	218.0460	218.0460	1.6600e- 003	0.0343	228.3070
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	2.7400e- 003	1.9700e- 003	0.0222	5.0000e- 005	5.5900e- 003	4.0000e- 005	5.6300e- 003	1.4900e- 003	3.0000e- 005	1.5200e- 003	0.0000	4.8026	4.8026	1.9000e- 004	1.6000e- 004	4.8550
Total	0.0243	0.6408	0.1465	2.3200e- 003	0.0671	9.5100e- 003	0.0766	0.0184	9.0900e- 003	0.0275	0.0000	222.8486	222.8486	1.8500e- 003	0.0345	233.1620

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					ton	s/yr							МТ	/yr		
Fugitive Dust					0.1232	0.0000	0.1232	0.0553	0.0000	0.0553	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1467	1.6240	1.0807	2.1700e- 003		0.0695	0.0695	 	0.0639	0.0639	0.0000	190.7322	190.7322	0.0617	0.0000	192.2744
Total	0.1467	1.6240	1.0807	2.1700e- 003	0.1232	0.0695	0.1927	0.0553	0.0639	0.1192	0.0000	190.7322	190.7322	0.0617	0.0000	192.2744

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3.4 Grading - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/уг		
Hauling	0.0216	0.6389	0.1243	2.2700e- 003	0.0615	9.4700e- 003	0.0710	0.0169	9.0600e- 003	0.0260	0.0000	218.0460	218.0460	1.6600e- 003	0.0343	228.3070
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	2.7400e- 003	1.9700e- 003	0.0222	5.0000e- 005	5.5900e- 003	4.0000e- 005	5.6300e- 003	1.4900e- 003	3.0000e- 005	1.5200e- 003	0.0000	4.8026	4.8026	1.9000e- 004	1.6000e- 004	4.8550
Total	0.0243	0.6408	0.1465	2.3200e- 003	0.0671	9.5100e- 003	0.0766	0.0184	9.0900e- 003	0.0275	0.0000	222.8486	222.8486	1.8500e- 003	0.0345	233.1620

3.5 Building Construction - 2021

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					ton	s/yr							MT	/yr		
Off-Road	0.1198	1.0982	1.0442	1.7000e- 003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9315	145.9315	0.0352	0.0000	146.8117
Total	0.1198	1.0982	1.0442	1.7000e- 003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9315	145.9315	0.0352	0.0000	146.8117

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3.5 Building Construction - 2021 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/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	0.0146	0.2833	0.0779	9.1000e- 004	0.0284	4.9000e- 003	0.0333	8.2000e- 003	4.6900e- 003	0.0129	0.0000	87.7226	87.7226	8.1000e- 004	0.0133	91.6990
Worker	0.0429	0.0309	0.3481	8.2000e- 004	0.0876	5.6000e- 004	0.0882	0.0233	5.2000e- 004	0.0238	0.0000	75.2093	75.2093	2.9100e- 003	2.5100e- 003	76.0291
Total	0.0575	0.3142	0.4260	1.7300e- 003	0.1160	5.4600e- 003	0.1214	0.0315	5.2100e- 003	0.0367	0.0000	162.9318	162.9318	3.7200e- 003	0.0158	167.7281

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					ton	s/yr							MT	/yr		
	0.1198	1.0982	1.0442	1.7000e- 003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9313	145.9313	0.0352	0.0000	146.8115
Total	0.1198	1.0982	1.0442	1.7000e- 003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9313	145.9313	0.0352	0.0000	146.8115

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3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/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	0.0146	0.2833	0.0779	9.1000e- 004	0.0284	4.9000e- 003	0.0333	8.2000e- 003	4.6900e- 003	0.0129	0.0000	87.7226	87.7226	8.1000e- 004	0.0133	91.6990
Worker	0.0429	0.0309	0.3481	8.2000e- 004	0.0876	5.6000e- 004	0.0882	0.0233	5.2000e- 004	0.0238	0.0000	75.2093	75.2093	2.9100e- 003	2.5100e- 003	76.0291
Total	0.0575	0.3142	0.4260	1.7300e- 003	0.1160	5.4600e- 003	0.1214	0.0315	5.2100e- 003	0.0367	0.0000	162.9318	162.9318	3.7200e- 003	0.0158	167.7281

3.6 Architectural Coating - 2021 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	0.4333					0.0000	0.0000	i i	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5200e- 003	0.0176	0.0209	3.0000e- 005		1.0800e- 003	1.0800e- 003	i i i	1.0800e- 003	1.0800e- 003	0.0000	2.9362	2.9362	2.0000e- 004	0.0000	2.9413
Total	0.4358	0.0176	0.0209	3.0000e- 005		1.0800e- 003	1.0800e- 003		1.0800e- 003	1.0800e- 003	0.0000	2.9362	2.9362	2.0000e- 004	0.0000	2.9413

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3.6 Architectural Coating - 2021 Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/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
TVOING!	1.5700e- 003	1.1300e- 003	0.0128	3.0000e- 005	3.2200e- 003	2.0000e- 005	3.2400e- 003	8.5000e- 004	2.0000e- 005	8.7000e- 004	0.0000	2.7615	2.7615	1.1000e- 004	9.0000e- 005	2.7916
Total	1.5700e- 003	1.1300e- 003	0.0128	3.0000e- 005	3.2200e- 003	2.0000e- 005	3.2400e- 003	8.5000e- 004	2.0000e- 005	8.7000e- 004	0.0000	2.7615	2.7615	1.1000e- 004	9.0000e- 005	2.7916

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					ton	s/yr							MT	/yr		
Archit. Coating	0.4333					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2.5200e- 003	0.0176	0.0209	3.0000e- 005	 	1.0800e- 003	1.0800e- 003		1.0800e- 003	1.0800e- 003	0.0000	2.9362	2.9362	2.0000e- 004	0.0000	2.9413
Total	0.4358	0.0176	0.0209	3.0000e- 005		1.0800e- 003	1.0800e- 003		1.0800e- 003	1.0800e- 003	0.0000	2.9362	2.9362	2.0000e- 004	0.0000	2.9413

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3.6 Architectural Coating - 2021 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					ton	s/yr							МТ	/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	1.5700e- 003	1.1300e- 003	0.0128	3.0000e- 005	3.2200e- 003	2.0000e- 005	3.2400e- 003	8.5000e- 004	2.0000e- 005	8.7000e- 004	0.0000	2.7615	2.7615	1.1000e- 004	9.0000e- 005	2.7916
Total	1.5700e- 003	1.1300e- 003	0.0128	3.0000e- 005	3.2200e- 003	2.0000e- 005	3.2400e- 003	8.5000e- 004	2.0000e- 005	8.7000e- 004	0.0000	2.7615	2.7615	1.1000e- 004	9.0000e- 005	2.7916

3.6 Architectural Coating - 2022 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	0.7724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1900e- 003	0.0289	0.0372	6.0000e- 005		1.6800e- 003	1.6800e- 003		1.6800e- 003	1.6800e- 003	0.0000	5.2342	5.2342	3.4000e- 004	0.0000	5.2427
Total	0.7766	0.0289	0.0372	6.0000e- 005		1.6800e- 003	1.6800e- 003		1.6800e- 003	1.6800e- 003	0.0000	5.2342	5.2342	3.4000e- 004	0.0000	5.2427

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3.6 Architectural Coating - 2022 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/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
	2.5700e- 003	1.7600e- 003	0.0206	5.0000e- 005	5.7300e- 003	3.0000e- 005	5.7700e- 003	1.5200e- 003	3.0000e- 005	1.5600e- 003	0.0000	4.7689	4.7689	1.7000e- 004	1.5000e- 004	4.8177
Total	2.5700e- 003	1.7600e- 003	0.0206	5.0000e- 005	5.7300e- 003	3.0000e- 005	5.7700e- 003	1.5200e- 003	3.0000e- 005	1.5600e- 003	0.0000	4.7689	4.7689	1.7000e- 004	1.5000e- 004	4.8177

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	0.7724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1900e- 003	0.0289	0.0372	6.0000e- 005	 	1.6800e- 003	1.6800e- 003		1.6800e- 003	1.6800e- 003	0.0000	5.2342	5.2342	3.4000e- 004	0.0000	5.2427
Total	0.7766	0.0289	0.0372	6.0000e- 005		1.6800e- 003	1.6800e- 003		1.6800e- 003	1.6800e- 003	0.0000	5.2342	5.2342	3.4000e- 004	0.0000	5.2427

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3.6 Architectural Coating - 2022 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					ton	s/yr							МТ	/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	2.5700e- 003	1.7600e- 003	0.0206	5.0000e- 005	5.7300e- 003	3.0000e- 005	5.7700e- 003	1.5200e- 003	3.0000e- 005	1.5600e- 003	0.0000	4.7689	4.7689	1.7000e- 004	1.5000e- 004	4.8177
Total	2.5700e- 003	1.7600e- 003	0.0206	5.0000e- 005	5.7300e- 003	3.0000e- 005	5.7700e- 003	1.5200e- 003	3.0000e- 005	1.5600e- 003	0.0000	4.7689	4.7689	1.7000e- 004	1.5000e- 004	4.8177

3.7 Paving - 2022

<u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0243	0.2448	0.3208	5.0000e- 004		0.0125	0.0125		0.0115	0.0115	0.0000	44.0606	44.0606	0.0143	0.0000	44.4169
Paving	6.7100e- 003		1 1 1 1	 		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0310	0.2448	0.3208	5.0000e- 004		0.0125	0.0125		0.0115	0.0115	0.0000	44.0606	44.0606	0.0143	0.0000	44.4169

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3.7 Paving - 2022
Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/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	1.1800e- 003	8.1000e- 004	9.4900e- 003	2.0000e- 005	2.6400e- 003	2.0000e- 005	2.6500e- 003	7.0000e- 004	1.0000e- 005	7.2000e- 004	0.0000	2.1933	2.1933	8.0000e- 005	7.0000e- 005	2.2158
Total	1.1800e- 003	8.1000e- 004	9.4900e- 003	2.0000e- 005	2.6400e- 003	2.0000e- 005	2.6500e- 003	7.0000e- 004	1.0000e- 005	7.2000e- 004	0.0000	2.1933	2.1933	8.0000e- 005	7.0000e- 005	2.2158

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0243	0.2448	0.3208	5.0000e- 004		0.0125	0.0125		0.0115	0.0115	0.0000	44.0606	44.0606	0.0143	0.0000	44.4168
,	6.7100e- 003	 	i i		i I	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0310	0.2448	0.3208	5.0000e- 004		0.0125	0.0125		0.0115	0.0115	0.0000	44.0606	44.0606	0.0143	0.0000	44.4168

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3.7 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/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	1.1800e- 003	8.1000e- 004	9.4900e- 003	2.0000e- 005	2.6400e- 003	2.0000e- 005	2.6500e- 003	7.0000e- 004	1.0000e- 005	7.2000e- 004	0.0000	2.1933	2.1933	8.0000e- 005	7.0000e- 005	2.2158
Total	1.1800e- 003	8.1000e- 004	9.4900e- 003	2.0000e- 005	2.6400e- 003	2.0000e- 005	2.6500e- 003	7.0000e- 004	1.0000e- 005	7.2000e- 004	0.0000	2.1933	2.1933	8.0000e- 005	7.0000e- 005	2.2158

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

	Ave	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.516452	0.033212	0.173817	0.123150	0.022816	0.005352	0.027555	0.088301	0.001837	0.001119	0.004633	0.000845	0.000911
Other Asphalt Surfaces	0.516452	0.033212	0.173817	0.123150	0.022816	0.005352	0.027555	0.088301	0.001837	0.001119	0.004633	0.000845	0.000911
Other Non-Asphalt Surfaces	0.516452	0.033212	0.173817	0.123150	0.022816	0.005352	0.027555	0.088301	0.001837	0.001119	0.004633	0.000845	0.000911
Refrigerated Warehouse-Rail	0.516452	0.033212	0.173817	0.123150	0.022816	0.005352	0.027555	0.088301	0.001837	0.001119	0.004633	0.000845	0.000911

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated	,					0.0000	0.0000	,	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	, : : : :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	 ! !	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
Manufacturing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	 	0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	 	0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	-/yr		
Manufacturing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	 	0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	/yr	
Manufacturing	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	/yr	
Manufacturing	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	3.5000e- 004	3.0000e- 005	3.8000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003
Unmitigated	3.5000e- 004	3.0000e- 005	3.8000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							MT	/yr		
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Products	0.0000				 	0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.5000e- 004	3.0000e- 005	3.8000e- 003	0.0000	 	1.0000e- 005	1.0000e- 005	 	1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003
Total	3.5000e- 004	3.0000e- 005	3.8000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							MT	/yr		
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000				 	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.5000e- 004	3.0000e- 005	3.8000e- 003	0.0000	 	1.0000e- 005	1.0000e- 005	 	1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003
Total	3.5000e- 004	3.0000e- 005	3.8000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category		МТ	-/yr	
winigatou	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use <u>Unmitigated</u>

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e	
Land Use	Mgal	MT/yr				
Manufacturing	0/0	0.0000	0.0000	0.0000	0.0000	
Other Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000	
Other Non- Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000	
Refrigerated Warehouse-Rail	0/0	0.0000	0.0000	0.0000	0.0000	
Total		0.0000	0.0000	0.0000	0.0000	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e	
Land Use	Mgal	MT/yr				
Manufacturing	0/0	0.0000	0.0000	0.0000	0.0000	
Other Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000	
Other Non- Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000	
Refrigerated Warehouse-Rail	0/0	0.0000	0.0000	0.0000	0.0000	
Total		0.0000	0.0000	0.0000	0.0000	

8.0 Waste Detail

8.1 Mitigation Measures Waste

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e			
	MT/yr						
ga.oa	0.0000	0.0000	0.0000	0.0000			
Unmitigated	0.0000	0.0000	0.0000	0.0000			

8.2 Waste by Land Use <u>Unmitigated</u>

	Waste Disposed	Total CO2	CH4	N2O	CO2e	
Land Use	tons	MT/yr				
Manufacturing	0	0.0000	0.0000	0.0000	0.0000	
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000	
Total		0.0000	0.0000	0.0000	0.0000	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e	
Land Use	tons	MT/yr				
Manufacturing	0	0.0000	0.0000	0.0000	0.0000	
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000	
Total		0.0000	0.0000	0.0000	0.0000	

9.0 Operational Offroad

Equipment Type Nu	ımber Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
-------------------	-----------------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type Number

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Modesto Operations Emissions - Phase I Incremental

Stanislaus County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	127.00	1000sqft	2.92	127,000.00	0
Refrigerated Warehouse-Rail	39.00	1000sqft	0.90	39,000.00	0
Other Asphalt Surfaces	222.93	1000sqft	5.12	222,932.00	0
Other Non-Asphalt Surfaces	24.23	1000sqft	0.56	24,232.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	46
Climate Zone	3			Operational Year	2022

Utility Company Modesto Irrigation District

 CO2 Intensity
 222.84
 CH4 Intensity
 0.033
 N2O Intensity
 0.004

 (lb/MWhr)
 (lb/MWhr)
 (lb/MWhr)
 (lb/MWhr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Carbon Intensity accounts for RPS

Land Use - Land uses provided by the Facility

Construction Phase - Construction schedule provided in a data request

Trips and VMT - Consistent with previous runs.

Demolition -

Grading - Data provided by the facility.

Architectural Coating -

Vehicle Trips - Mobile emissions calculated outside of the model.

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vehicle Emission Factors - Consistent with previous runs.

Vehicle Emission Factors - Consistent with previous runs.

Vehicle Emission Factors - Consistent with previous runs.

Consumer Products -

Area Coating -

Energy Use - Energy emissions calculated outside of the model.

Water And Wastewater - Water usages provided by the facility.

Solid Waste - Waste generation rates as provided by the facility.

Construction Off-road Equipment Mitigation -

Fleet Mix - Consistent with previous runs.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	230.00	126.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	70.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	10.00	70.00
tblEnergyUse	LightingElect	2.70	0.00
tblEnergyUse	LightingElect	2.45	0.00
tblEnergyUse	NT24E	4.16	0.00
tblEnergyUse	NT24E	21.99	0.00
tblEnergyUse	NT24NG	3.84	0.00
tblEnergyUse	T24E	1.75	0.00
tblEnergyUse	T24E	0.42	0.00
tblEnergyUse	T24NG	16.86	0.00
tblEnergyUse	T24NG	0.15	0.00
tblFleetMix	HHD	0.02	0.09

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tblFleetMix	HHD	0.02	0.09
tblFleetMix	HHD	0.02	0.09
tblFleetMix	HHD	0.02	0.09
tblFleetMix	LDA	0.51	0.52
tblFleetMix	LDA	0.51	0.52
tblFleetMix	LDA	0.51	0.52
tblFleetMix	LDA	0.51	0.52
tblFleetMix	LDT1	0.05	0.03
tblFleetMix	LDT1	0.05	0.03
tblFleetMix	LDT1	0.05	0.03
tblFleetMix	LDT1	0.05	0.03
tblFleetMix	LDT2	0.17	0.17
tblFleetMix	LDT2	0.17	0.17
tblFleetMix	LDT2	0.17	0.17
tblFleetMix	LDT2	0.17	0.17
tblFleetMix	LHD1	0.04	0.02
tblFleetMix	LHD1	0.04	0.02
tblFleetMix	LHD1	0.04	0.02
tblFleetMix	LHD1	0.04	0.02
tblFleetMix	LHD2	8.4000e-003	5.3520e-003
tblFleetMix	LHD2	8.4000e-003	5.3520e-003
tblFleetMix	LHD2	8.4000e-003	5.3520e-003
tblFleetMix	LHD2	8.4000e-003	5.3520e-003
tblFleetMix	MCY	0.03	4.6330e-003
tblFleetMix	MCY	0.03	4.6330e-003
tblFleetMix	MCY	0.03	4.6330e-003
tblFleetMix	MCY	0.03	4.6330e-003
tblFleetMix	MDV	0.17	0.12
tblFleetMix	MDV	0.17	0.12
		·	

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biFleetMix MOV 0.17 0.12				
ItilificetMix	tblFleetMix	MDV	0.17	0.12
tb FleetMix	tblFleetMix	MDV	0.17	0.12
tbFleetMix MH 4.2990e-003 9.1100e-004 tbFleetMix MH 4.2990e-003 9.1100e-004 tbFleetMix MHD 0.01 0.03 tbFleetMix MHD 0.01 0.03 tbFleetMix MHD 0.01 0.03 tbFleetMix MHD 0.01 0.03 tbFleetMix OBUS 8.8600e-004 1.8370e-003 tbFleetMix SBUS 1.4260e-003 8.4500e-004 tbFleetMix SBUS 1.4260e-003 8.4500e-004 tbFleetMix SBUS 1.4260e-003 8.4500e-004 tbFleetMix UBUS 3.0600e-004 1.1190e-003 tbFleetMix UBUS 3.0600e-004 1.1190e-003 tbFleetMix UBUS 3.060	tblFleetMix	MH	4.2990e-003	9.1100e-004
Total	tblFleetMix	MH	4.2990e-003	9.1100e-004
tbiFleetMix MHD	tblFleetMix	MH	4.2990e-003	9.1100e-004
tb FleetMix	tblFleetMix	MH	4.2990e-003	9.1100e-004
The property in the property is a second of the property in the property is a second of the property in the property is a second of the property in the property is a second of the property in the property is a second of the property in the property is a second of the property in the property is a second of the property in the property is a second of the property	tblFleetMix	MHD	0.01	0.03
ItalifeetMix	tblFleetMix	MHD	0.01	0.03
tb FleetMix	tblFleetMix	MHD	0.01	0.03
tblFleetMix OBUS 8.8600e-004 1.8370e-003 tblFleetMix OBUS 8.8600e-004 1.8370e-003 tblFleetMix OBUS 8.8600e-004 1.8370e-003 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 </td <td>tblFleetMix</td> <td>MHD</td> <td>0.01</td> <td>0.03</td>	tblFleetMix	MHD	0.01	0.03
tblFleetMix OBUS 8.8600e-004 1.8370e-003 tblFleetMix OBUS 8.8600e-004 1.8370e-003 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblGrading AcresOfGrading 210.00 112.50 tblGrading AcresOfGrading 105.00 0.00 tblGrading MaterialExported 0.00 43,400.00 tblCandUse LandUseSquareFeet 222,930.00 222,932.00 <td>tblFleetMix</td> <td>OBUS</td> <td>8.8600e-004</td> <td>1.8370e-003</td>	tblFleetMix	OBUS	8.8600e-004	1.8370e-003
tblFleetMix OBUS 8.8600e-004 1.8370e-003 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblGrading AcresOfGrading 210.00 112.50 tblGrading AcresOfGrading 105.00 0.00 tblGrading MaterialImported 0.00 43,400.00 tblGrading MaterialImported 0.00 14,200.00 tblLandUse LandUseSquareFeet 222,930.00 222,932.00 </td <td>tblFleetMix</td> <td>OBUS</td> <td>8.8600e-004</td> <td>1.8370e-003</td>	tblFleetMix	OBUS	8.8600e-004	1.8370e-003
tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblGrading AcresOfGrading 210.00 112.50 tblGrading AcresOfGrading 105.00 0.00 tblGrading MaterialExported 0.00 43,400.00 tblGrading MaterialImported 0.00 14,200.00 tblCandUse LandUseSquareFeet 222,930.00 222,932.00 tblLandUse LandUseSquareFeet 24,230.00 24,232.00	tblFleetMix	OBUS	8.8600e-004	1.8370e-003
tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblGrading AcresOfGrading 210.00 112.50 tblGrading AcresOfGrading 105.00 0.00 tblGrading MaterialExported 0.00 43,400.00 tblGrading MaterialImported 0.00 14,200.00 tblLandUse LandUseSquareFeet 222,930.00 222,932.00 tblLandUse LandUseSquareFeet 24,230.00 24,232.00	tblFleetMix	OBUS	8.8600e-004	1.8370e-003
tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblGrading AcresOfGrading 210.00 112.50 tblGrading AcresOfGrading 210.00 112.50 tblGrading MaterialExported 0.00 43,400.00 tblGrading MaterialImported 0.00 14,200.00 tblLandUse LandUseSquareFeet 222,930.00 222,932.00 tblLandUse LandUseSquareFeet 24,230.00 24,232.00	tblFleetMix	SBUS	1.4260e-003	8.4500e-004
tblFleetMix SBUS 1.4260e-003 8.4500e-004 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblGrading AcresOfGrading 210.00 112.50 tblGrading AcresOfGrading 105.00 0.00 tblGrading MaterialExported 0.00 43,400.00 tblGrading MaterialImported 0.00 14,200.00 tblLandUse LandUseSquareFeet 222,930.00 222,932.00 tblLandUse LandUseSquareFeet 24,230.00 24,232.00	tblFleetMix	SBUS	1.4260e-003	8.4500e-004
tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblGrading AcresOfGrading 210.00 112.50 tblGrading AcresOfGrading 105.00 0.00 tblGrading MaterialExported 0.00 43,400.00 tblGrading MaterialImported 0.00 14,200.00 tblLandUse LandUseSquareFeet 222,930.00 222,932.00 tblLandUse LandUseSquareFeet 24,230.00 24,232.00	tblFleetMix	SBUS	1.4260e-003	8.4500e-004
tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblGrading AcresOfGrading 210.00 112.50 tblGrading AcresOfGrading 105.00 0.00 tblGrading MaterialExported 0.00 43,400.00 tblGrading MaterialImported 0.00 14,200.00 tblLandUse LandUseSquareFeet 222,930.00 222,932.00 tblLandUse LandUseSquareFeet 24,230.00 24,232.00	tblFleetMix	SBUS	1.4260e-003	8.4500e-004
tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblGrading AcresOfGrading 210.00 112.50 tblGrading AcresOfGrading 105.00 0.00 tblGrading MaterialExported 0.00 43,400.00 tblGrading MaterialImported 0.00 14,200.00 tblLandUse LandUseSquareFeet 222,930.00 222,932.00 tblLandUse LandUseSquareFeet 24,230.00 24,232.00	tblFleetMix	UBUS	3.0600e-004	1.1190e-003
tblFleetMix UBUS 3.0600e-004 1.1190e-003 tblGrading AcresOfGrading 210.00 112.50 tblGrading AcresOfGrading 105.00 0.00 tblGrading MaterialExported 0.00 43,400.00 tblGrading MaterialImported 0.00 14,200.00 tblLandUse LandUseSquareFeet 222,930.00 222,932.00 tblLandUse LandUseSquareFeet 24,230.00 24,232.00	tblFleetMix	UBUS	3.0600e-004	1.1190e-003
tblGrading AcresOfGrading 210.00 112.50 tblGrading AcresOfGrading 105.00 0.00 tblGrading MaterialExported 0.00 43,400.00 tblGrading MaterialImported 0.00 14,200.00 tblLandUse LandUseSquareFeet 222,930.00 222,932.00 tblLandUse LandUseSquareFeet 24,230.00 24,232.00	tblFleetMix	UBUS	3.0600e-004	1.1190e-003
tblGrading AcresOfGrading 105.00 0.00 tblGrading MaterialExported 0.00 43,400.00 tblGrading MaterialImported 0.00 14,200.00 tblLandUse LandUseSquareFeet 222,930.00 222,932.00 tblLandUse LandUseSquareFeet 24,230.00 24,232.00	tblFleetMix	UBUS	3.0600e-004	1.1190e-003
tblGrading MaterialExported 0.00 43,400.00 tblGrading MaterialImported 0.00 14,200.00 tblLandUse LandUseSquareFeet 222,930.00 222,932.00 tblLandUse LandUseSquareFeet 24,230.00 24,232.00	tblGrading	AcresOfGrading	210.00	112.50
tblGrading MaterialImported 0.00 14,200.00 tblLandUse LandUseSquareFeet 222,930.00 222,932.00 tblLandUse LandUseSquareFeet 24,230.00 24,232.00	tblGrading	AcresOfGrading	105.00	0.00
tblLandUse LandUseSquareFeet 222,930.00 222,932.00 tblLandUse LandUseSquareFeet 24,230.00 24,232.00	tblGrading	MaterialExported	0.00	43,400.00
tblLandUse LandUseSquareFeet 24,230.00 24,232.00	tblGrading	MaterialImported	0.00	14,200.00
ļ	tblLandUse	LandUseSquareFeet	222,930.00	222,932.00
tblOffRoadEquipment OffRoadEquipmentUnitAmount 1.00 2.00	tblLandUse	LandUseSquareFeet	24,230.00	24,232.00
	tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblProjectCharacteristics	CO2IntensityFactor	452.98	222.84
tblSolidWaste	SolidWasteGenerationRate	157.48	71.46
tblSolidWaste	SolidWasteGenerationRate	36.66	0.00
tblVehicleEF	HHD	0.02	1.80
tblVehicleEF	HHD	7.7620e-003	0.01
tblVehicleEF	HHD	0.00	0.10
tblVehicleEF	HHD	6.89	2.81
tblVehicleEF	HHD	0.31	0.63
tblVehicleEF	HHD	2.0380e-003	1.00
tblVehicleEF	HHD	1,234.70	5,476.49
tblVehicleEF	HHD	1,406.07	1,567.25
tblVehicleEF	HHD	0.01	2.95
tblVehicleEF	HHD	6.40	21.99
tblVehicleEF	HHD	3.03	3.12
tblVehicleEF	HHD	2.12	20.52
tblVehicleEF	HHD	3.8050e-003	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.7000e-005
tblVehicleEF	HHD	3.6400e-003	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8890e-003	8.8100e-003
tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.5000e-005
tblVehicleEF	HHD	1.0000e-006	4.8000e-005
tblVehicleEF	HHD	3.2000e-005	1.7230e-003
tblVehicleEF	HHD	0.50	0.74

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tblVehicleEF	HHD	0.00	2.5000e-005
tblVehicleEF	HHD	0.06	0.12
tblVehicleEF	HHD	1.4000e-005	1.5300e-004
tblVehicleEF	HHD	1.0000e-006	0.03
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.00	4.6000e-005
tblVehicleEF	HHD	1.0000e-006	4.8000e-005
tblVehicleEF	HHD	3.2000e-005	1.7230e-003
tblVehicleEF	HHD	0.57	0.85
tblVehicleEF	HHD	0.00	2.5000e-005
tblVehicleEF	HHD	0.07	0.14
tblVehicleEF	HHD	1.4000e-005	1.5300e-004
tblVehicleEF	HHD	1.0000e-006	0.03
tblVehicleEF	HHD	0.02	1.69
tblVehicleEF	HHD	7.7620e-003	0.01
tblVehicleEF	HHD	0.00	0.09
tblVehicleEF	HHD	6.76	2.05
tblVehicleEF	HHD	0.31	0.63
tblVehicleEF	HHD	1.8860e-003	0.93
tblVehicleEF	HHD	1,226.95	5,801.52
tblVehicleEF	HHD	1,406.07	1,567.25
tblVehicleEF	HHD	0.01	2.95
tblVehicleEF	HHD	6.17	22.70
tblVehicleEF	HHD	2.89	2.98
tblVehicleEF	HHD	2.12	20.52
tblVehicleEF	HHD	3.3480e-003	0.02
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04

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tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.7000e-005
tblVehicleEF	HHD	3.2030e-003	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8890e-003	8.8100e-003
tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.5000e-005
tblVehicleEF	HHD	3.0000e-006	1.2000e-004
tblVehicleEF	HHD	3.9000e-005	1.9690e-003
tblVehicleEF	HHD	0.52	0.70
tblVehicleEF	HHD	1.0000e-006	5.5000e-005
tblVehicleEF	HHD	0.06	0.12
tblVehicleEF	HHD	1.4000e-005	1.5500e-004
tblVehicleEF	HHD	1.0000e-006	0.03
tblVehicleEF	HHD	0.01	0.06
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.00	4.5000e-005
tblVehicleEF	HHD	3.0000e-006	1.2000e-004
tblVehicleEF	HHD	3.9000e-005	1.9690e-003
tblVehicleEF	HHD	0.59	0.80
tblVehicleEF	HHD	1.0000e-006	5.5000e-005
tblVehicleEF	HHD	0.07	0.14
tblVehicleEF	HHD	1.4000e-005	1.5500e-004
tblVehicleEF	HHD	1.0000e-006	0.03
tblVehicleEF	HHD	0.02	1.94
tblVehicleEF	HHD	7.7620e-003	0.01
tblVehicleEF	HHD	0.00	0.10
tblVehicleEF	HHD	7.07	3.87
tblVehicleEF	HHD	0.31	0.63

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tblVehicleEF	HHD	0.0400 - 000	1.00
■ <u>□</u>	טוווו	2.2120e-003	1.09
tblVehicleEF	HHD	1,245.41	5,027.65
tblVehicleEF	HHD	1,406.07	1,567.25
tblVehicleEF	HHD	0.01	2.95
tblVehicleEF	HHD	6.72	21.02
tblVehicleEF	HHD	3.08	3.18
tblVehicleEF	HHD	2.12	20.53
tblVehicleEF	HHD	4.4360e-003	0.03
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.7000e-005
tblVehicleEF	HHD	4.2440e-003	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8890e-003	8.8100e-003
tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.00	2.5000e-005
tblVehicleEF	HHD	0.00	1.6000e-005
tblVehicleEF	HHD	3.6000e-005	1.7800e-003
tblVehicleEF	HHD	0.46	0.80
tblVehicleEF	HHD	0.00	1.0000e-005
tblVehicleEF	HHD	0.06	0.12
tblVehicleEF	HHD	1.5000e-005	1.6600e-004
tblVehicleEF	HHD	1.0000e-006	0.03
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.00	4.8000e-005
tblVehicleEF	HHD	0.00	1.6000e-005
tblVehicleEF	HHD	3.6000e-005	1.7800e-003

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tblVehicleEF tblVehicleEF	HHD HHD HHD HHD LDA LDA LDA LDA LDA LDA LDA LDA LDA LD	0.53 0.00 0.07 1.5000e-005 1.0000e-006 2.6480e-003 0.05 0.67 2.24 266.55 54.55 0.04	0.92 1.0000e-005 0.14 1.6600e-004 0.03 4.5420e-003 5.9180e-003 0.60 1.27 264.78 58.02
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	HHD HHD LDA LDA LDA LDA LDA LDA LDA LDA LDA LD	0.07 1.5000e-005 1.0000e-006 2.6480e-003 0.05 0.67 2.24 266.55 54.55	0.14 1.6600e-004 0.03 4.5420e-003 5.9180e-003 0.60 1.27 264.78
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	HHD HHD LDA LDA LDA LDA LDA LDA	1.5000e-005 1.0000e-006 2.6480e-003 0.05 0.67 2.24 266.55 54.55	1.6600e-004 0.03 4.5420e-003 5.9180e-003 0.60 1.27 264.78
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	HHD LDA LDA LDA LDA LDA LDA LDA	1.0000e-006 2.6480e-003 0.05 0.67 2.24 266.55 54.55	0.03 4.5420e-003 5.9180e-003 0.60 1.27 264.78
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	LDA LDA LDA LDA LDA LDA LDA LDA	2.6480e-003 0.05 0.67 2.24 266.55 54.55	4.5420e-003 5.9180e-003 0.60 1.27 264.78
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	LDA LDA LDA LDA LDA	0.05 0.67 2.24 266.55 54.55	5.9180e-003 0.60 1.27 264.78
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	LDA LDA LDA LDA LDA	0.67 2.24 266.55 54.55	0.60 1.27 264.78
tblVehicleEF tblVehicleEF tblVehicleEF	LDA LDA LDA LDA	2.24 266.55 54.55	1.27 264.78
tblVehicleEF tblVehicleEF	LDA LDA LDA	266.55 54.55	264.78
tblVehicleEF	LDA LDA	54.55	
	LDA		58.02
tblVehicleEF		0.04	
- L	IDA		0.05
tblVehicleEF	LD/\	0.20	0.08
tblVehicleEF	LDA	1.5950e-003	1.8570e-003
tblVehicleEF	LDA	1.8990e-003	2.3000e-003
tblVehicleEF	LDA	1.4690e-003	1.7110e-003
tblVehicleEF	LDA	1.7460e-003	2.1150e-003
tblVehicleEF	LDA	0.07	0.05
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.25	0.08
tblVehicleEF	LDA	2.6370e-003	2.6520e-003
tblVehicleEF	LDA	5.4000e-004	6.0200e-004
tblVehicleEF	LDA	0.07	0.05
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.01	0.02

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tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	LDA LDA LDA LDA LDA LDA LDA LDA	0.03 0.27 3.0770e-003 0.05 0.83 1.84	0.03 0.09 5.2300e-003 4.8620e-003 0.75
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	LDA LDA LDA LDA LDA	3.0770e-003 0.05 0.83 1.84	5.2300e-003 4.8620e-003 0.75
tblVehicleEF tblVehicleEF tblVehicleEF	LDA LDA LDA LDA	0.05 0.83 1.84	4.8620e-003 0.75
tblVehicleEF tblVehicleEF	LDA LDA LDA	0.83	0.75
tblVehicleEF	LDA LDA	1.84	
ļ	LDA		1.04
tblVehicleEF		000.50	!
-		292.58	291.09
tblVehicleEF	LDA	53.78	58.02
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.18	0.07
tblVehicleEF	LDA	1.5950e-003	1.8570e-003
tblVehicleEF	LDA	1.8990e-003	2.3000e-003
tblVehicleEF	LDA	1.4690e-003	1.7110e-003
tblVehicleEF	LDA	1.7460e-003	2.1150e-003
tblVehicleEF	LDA	0.16	0.12
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.11	0.08
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.20	0.07
tblVehicleEF	LDA	2.8940e-003	2.9170e-003
tblVehicleEF	LDA	5.3200e-004	5.9800e-004
tblVehicleEF	LDA	0.16	0.12
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.11	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.22	0.07
tblVehicleEF	LDA	2.4650e-003	4.2890e-003

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tbVehideEF				
tbl/ehicleEF LDA 2.72 1.53 tbl/ehicleEF LDA 257.53 255.65 tbl/ehicleEF LDA 55.45 58.02 tbl/ehicleEF LDA 0.04 0.06 tbl/ehicleEF LDA 0.22 0.09 tbl/ehicleEF LDA 1.5950-003 1.8570-003 tbl/ehicleEF LDA 1.8990-003 2.3000-003 tbl/ehicleEF LDA 1.7460-003 1.7110-003 tbl/ehicleEF LDA 1.7460-003 2.1150-003 tbl/ehicleEF LDA 0.02 0.02 tbl/ehicleEF LDA 0.11 0.11 tbl/ehicleEF LDA 0.02 0.01 tbl/ehicleEF LDA 0.03 0.04 tbl/ehicleEF LDA 0.29 0.09 tbl/ehicleEF LDA 0.29 0.09 tbl/ehicleEF LDA 2.5480-003 2.5500-003 tbl/ehicleEF LDA 0.02 0.02 tbl/ehicleEF	tblVehicleEF	LDA	0.06	6.9310e-003
tb/VehicleEF LDA 257.53 256.65 tb/VehicleEF LDA 65.45 58.02 ib/VehicleEF LDA 0.04 0.06 ib/VehicleEF LDA 0.22 0.09 ib/VehicleEF LDA 1.5950e-003 1.8570e-003 ib/VehicleEF LDA 1.8990e-003 2.3000e-003 ib/VehicleEF LDA 1.7460e-003 1.7110e-003 ib/VehicleEF LDA 1.7460e-003 1.7110e-003 ib/VehicleEF LDA 0.02 0.02 ib/VehicleEF LDA 0.02 0.01 ib/VehicleEF LDA 0.02 0.01 ib/VehicleEF LDA 0.03 0.04 ib/VehicleEF LDA 0.03 0.04 ib/VehicleEF LDA 0.29 0.09 ib/VehicleEF LDA 0.29 0.09 ib/VehicleEF LDA 0.02 0.02 ib/VehicleEF LDA 0.01 0.02 ib/VehicleEF	tblVehicleEF	LDA	0.62	0.56
tbNvehicleEF LDA 55.45 58.02 tbNvehicleEF LDA 0.04 0.06 tbNvehicleEF LDA 0.22 0.09 tbNvehicleEF LDA 1.5950e-003 1.8570e-003 tbVehicleEF LDA 1.8990e-003 2.3000e-003 tbVehicleEF LDA 1.4690e-003 1.7110e-003 tbVehicleEF LDA 1.7460e-003 2.1150e-003 tbVehicleEF LDA 0.02 0.02 tbVehicleEF LDA 0.11 0.11 tbVehicleEF LDA 0.11 0.11 tbVehicleEF LDA 9.7140e-003 0.01 tbVehicleEF LDA 0.03 0.01 tbVehicleEF LDA 0.03 0.04 tbVehicleEF LDA 0.03 0.04 tbVehicleEF LDA 2.5480e-003 2.5600e-003 tbVehicleEF LDA 0.02 0.02 tbVehicleEF LDA 0.01 0.02 tbVehicleEF	tblVehicleEF	LDA	2.72	1.53
tbl/ehicleEF LDA 0.04 0.06 tbl/ehicleEF LDA 0.22 0.09 tbl/ehicleEF LDA 1.5950e-003 1.8570e-003 tbl/ehicleEF LDA 1.8990e-003 2.3000e-003 tbl/ehicleEF LDA 1.4690e-003 1.7110e-003 tbl/ehicleEF LDA 1.7460e-003 2.1150e-003 tbl/ehicleEF LDA 0.02 0.02 tbl/ehicleEF LDA 0.11 0.11 tbl/ehicleEF LDA 9.7140e-003 0.01 tbl/ehicleEF LDA 9.7140e-003 0.01 tbl/ehicleEF LDA 0.03 0.04 tbl/ehicleEF LDA 0.03 0.04 tbl/ehicleEF LDA 0.29 0.09 tbl/ehicleEF LDA 5.4900e-003 2.5600e-003 tbl/ehicleEF LDA 0.02 0.02 0.02 tbl/ehicleEF LDA 0.011 0.11 0.11 tbl/ehicleEF LDA 0.02 <	tblVehicleEF	LDA	257.53	255.65
tblVehideEF LDA 0.22 0.09 tblVehideEF LDA 1.5950e-003 1.8570e-003 tblVehideEF LDA 1.8990e-003 2.3000e-003 tblVehideEF LDA 1.7460e-003 1.7110e-003 tblVehideEF LDA 0.02 0.02 tblVehideEF LDA 0.11 0.11 tblVehideEF LDA 0.02 0.01 tblVehideEF LDA 0.02 0.01 tblVehideEF LDA 0.03 0.04 tblVehideEF LDA 0.03 0.04 tblVehideEF LDA 0.29 0.09 tblVehideEF LDA 2.5480e-003 2.5600e-003 tblVehideEF LDA 5.4900e-004 6.0600e-004 tblVehideEF LDA 0.02 0.02 tblVehideEF LDA 0.01 0.02 tblVehideEF LDA 0.01 0.02 tblVehideEF LDA 0.01 0.02 tblVehideEF LDA	tblVehicleEF	LDA	55.45	58.02
tblVehicleEF LDA 1.5950e-003 1.8570e-003 tblVehicleEF LDA 1.9990e-003 2.3000e-003 tblVehicleEF LDA 1.4690e-003 1.7110e-003 tblVehicleEF LDA 1.7460e-003 2.1150e-003 tblVehicleEF LDA 0.02 0.02 tblVehicleEF LDA 0.11 0.11 tblVehicleEF LDA 0.02 0.01 tblVehicleEF LDA 9.7140e-003 0.01 tblVehicleEF LDA 9.7140e-003 0.01 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 2.5480e-003 2.5600e-003 tblVehicleEF LDA 5.4900e-004 6.0600e-004 tblVehicleEF LDA 0.02 0.02 tblVehicleEF LDA 0.01 0.01 tblVehicleEF LDA 0.01 0.02 tblVehicleEF LDA 0.03 0.04	tblVehicleEF	LDA	0.04	0.06
tblVehicleEF LDA 1.8990e-003 2.3000e-003 tblVehicleEF LDA 1.4690e-003 1.7110e-003 tblVehicleEF LDA 1.7460e-003 2.1150e-003 tblVehicleEF LDA 0.02 0.02 tblVehicleEF LDA 0.11 0.11 tblVehicleEF LDA 0.02 0.01 tblVehicleEF LDA 9.7140e-003 0.01 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.29 0.09 tblVehicleEF LDA 2.5480e-003 2.5600e-003 tblVehicleEF LDA 5.4900e-004 6.0600e-004 tblVehicleEF LDA 0.02 0.02 tblVehicleEF LDA 0.11 0.11 tblVehicleEF LDA 0.01 0.02 tblVehicleEF LDA 0.01 0.02 tblVehicleEF LDA 0.01 0.02 tblVehicleEF LDA 0.31 0.10 tblVehic	tblVehicleEF	LDA	0.22	0.09
tblVehicleEF LDA 1.4690e-003 1.7110e-003 tblVehicleEF LDA 1.7460e-003 2.1150e-003 tblVehicleEF LDA 0.02 0.02 tblVehicleEF LDA 0.11 0.11 tblVehicleEF LDA 0.02 0.01 tblVehicleEF LDA 9.7140e-003 0.01 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.29 0.09 tblVehicleEF LDA 0.29 0.09 tblVehicleEF LDA 2.5480e-003 2.5600e-003 tblVehicleEF LDA 5.4900e-004 6.0600e-004 tblVehicleEF LDA 0.02 0.02 tblVehicleEF LDA 0.11 0.11 tblVehicleEF LDA 0.01 0.02 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.31 0.10 tblVehicleEF LDA 0.31 0.10 tblVehicleEF	tblVehicleEF	LDA	1.5950e-003	1.8570e-003
tblVehicleEF LDA 1.7460e-003 2.1150e-003 tblVehicleEF LDA 0.02 0.02 tblVehicleEF LDA 0.11 0.11 tblVehicleEF LDA 0.02 0.01 tblVehicleEF LDA 9.7140e-003 0.01 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.29 0.09 tblVehicleEF LDA 2.5480e-003 2.5600e-003 tblVehicleEF LDA 5.4900e-004 6.0600e-004 tblVehicleEF LDA 0.02 0.02 tblVehicleEF LDA 0.01 0.11 tblVehicleEF LDA 0.01 0.02 tblVehicleEF LDA 0.01 0.02 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.31 0.10 tblVehicleEF LDA 0.31 0.10 tblVehicleEF LDA 0.31 0.01 tblVehicleEF LDT1 </td <td>tblVehicleEF</td> <td>LDA</td> <td>1.8990e-003</td> <td>2.3000e-003</td>	tblVehicleEF	LDA	1.8990e-003	2.3000e-003
tbl/ehicleEF LDA 0.02 0.02 tbl/ehicleEF LDA 0.11 0.11 tbl/ehicleEF LDA 0.02 0.01 tbl/ehicleEF LDA 9.7140e-003 0.01 tbl/ehicleEF LDA 0.03 0.04 tbl/ehicleEF LDA 0.29 0.09 tbl/ehicleEF LDA 2.5480e-003 2.5600e-003 tbl/ehicleEF LDA 5.4900e-004 6.0600e-004 tbl/ehicleEF LDA 0.02 0.02 tbl/ehicleEF LDA 0.01 0.11 tbl/ehicleEF LDA 0.01 0.02 tbl/ehicleEF LDA 0.03 0.04 tbl/ehicleEF LDA 0.31 0.10 tbl/ehicleEF LDA 0.31 0.10 tbl/ehicleEF LDT1 7.7460e-003 0.01 tbl/ehicleEF LDT1 1.80 1.60	tblVehicleEF	LDA	1.4690e-003	1.7110e-003
tblVehicleEF LDA 0.11 0.11 tblVehicleEF LDA 0.02 0.01 tblVehicleEF LDA 9.7140e-003 0.01 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.29 0.09 tblVehicleEF LDA 2.5480e-003 2.5600e-003 tblVehicleEF LDA 5.4900e-004 6.0600e-004 tblVehicleEF LDA 0.02 0.02 tblVehicleEF LDA 0.11 0.11 tblVehicleEF LDA 0.02 0.01 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.31 0.10 tblVehicleEF LDT1 7.7460e-003 0.01 tblVehicleEF LDT1 0.09 0.02 tblVehicleEF LDT1 1.50 1.60	tblVehicleEF	LDA	1.7460e-003	2.1150e-003
tblVehicleEF LDA 0.02 0.01 tblVehicleEF LDA 9.7140e-003 0.01 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.29 0.09 tblVehicleEF LDA 2.5480e-003 2.5600e-003 tblVehicleEF LDA 5.4900e-004 6.0600e-004 tblVehicleEF LDA 0.02 0.02 tblVehicleEF LDA 0.11 0.11 tblVehicleEF LDA 0.02 0.01 tblVehicleEF LDA 0.01 0.02 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.31 0.10 tblVehicleEF LDT1 7.7460e-003 0.01 tblVehicleEF LDT1 0.09 0.02 tblVehicleEF LDT1 1.50 1.60	tblVehicleEF	LDA	0.02	0.02
tbl/ehicleEF LDA 9.7140e-003 0.01 tbl/ehicleEF LDA 0.03 0.04 tbl/ehicleEF LDA 0.29 0.09 tbl/ehicleEF LDA 2.5480e-003 2.5600e-003 tbl/ehicleEF LDA 5.4900e-004 6.0600e-004 tbl/ehicleEF LDA 0.02 0.02 tbl/ehicleEF LDA 0.11 0.11 tbl/ehicleEF LDA 0.02 0.01 tbl/ehicleEF LDA 0.01 0.02 tbl/ehicleEF LDA 0.03 0.04 tbl/ehicleEF LDA 0.31 0.10 tbl/ehicleEF LDA 0.31 0.10 tbl/ehicleEF LDT1 7.7460e-003 0.01 tbl/ehicleEF LDT1 0.09 0.02 tbl/ehicleEF LDT1 1.50 1.60	tblVehicleEF	LDA	0.11	0.11
tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.29 0.09 tblVehicleEF LDA 2.5480e-003 2.5600e-003 tblVehicleEF LDA 5.4900e-004 6.0600e-004 tblVehicleEF LDA 0.02 0.02 tblVehicleEF LDA 0.11 0.11 tblVehicleEF LDA 0.02 0.01 tblVehicleEF LDA 0.01 0.02 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.31 0.10 tblVehicleEF LDT1 7.7460e-003 0.01 tblVehicleEF LDT1 0.09 0.02 tblVehicleEF LDT1 1.50 1.60	tblVehicleEF	LDA	0.02	0.01
tblVehicleEF LDA 0.29 0.09 tblVehicleEF LDA 2.5480e-003 2.5600e-003 tblVehicleEF LDA 5.4900e-004 6.0600e-004 tblVehicleEF LDA 0.02 0.02 tblVehicleEF LDA 0.11 0.11 tblVehicleEF LDA 0.02 0.01 tblVehicleEF LDA 0.01 0.02 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.31 0.10 tblVehicleEF LDT1 7.7460e-003 0.01 tblVehicleEF LDT1 0.09 0.02 tblVehicleEF LDT1 1.50 1.60	tblVehicleEF	LDA	9.7140e-003	0.01
tblVehicleEF LDA 2.5480e-003 2.5600e-003 tblVehicleEF LDA 5.4900e-004 6.0600e-004 tblVehicleEF LDA 0.02 0.02 tblVehicleEF LDA 0.11 0.11 tblVehicleEF LDA 0.02 0.01 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.31 0.10 tblVehicleEF LDT1 7.7460e-003 0.01 tblVehicleEF LDT1 0.09 0.02 tblVehicleEF LDT1 1.60 1.60	tblVehicleEF	LDA	0.03	0.04
tblVehicleEF LDA 5.4900e-004 6.0600e-004 tblVehicleEF LDA 0.02 0.02 tblVehicleEF LDA 0.11 0.11 tblVehicleEF LDA 0.02 0.01 tblVehicleEF LDA 0.01 0.02 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.31 0.10 tblVehicleEF LDT1 7.7460e-003 0.01 tblVehicleEF LDT1 0.09 0.02 tblVehicleEF LDT1 1.50 1.60	tblVehicleEF	LDA	0.29	0.09
tblVehicleEF LDA 0.02 0.02 tblVehicleEF LDA 0.11 0.11 tblVehicleEF LDA 0.02 0.01 tblVehicleEF LDA 0.01 0.02 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.31 0.10 tblVehicleEF LDT1 7.7460e-003 0.01 tblVehicleEF LDT1 0.09 0.02 tblVehicleEF LDT1 1.50 1.60	tblVehicleEF	LDA	2.5480e-003	2.5600e-003
tblVehicleEF LDA 0.11 0.11 tblVehicleEF LDA 0.02 0.01 tblVehicleEF LDA 0.01 0.02 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.31 0.10 tblVehicleEF LDT1 7.7460e-003 0.01 tblVehicleEF LDT1 0.09 0.02 tblVehicleEF LDT1 1.50 1.60	tblVehicleEF	LDA	5.4900e-004	6.0600e-004
tblVehicleEF LDA 0.02 0.01 tblVehicleEF LDA 0.01 0.02 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.31 0.10 tblVehicleEF LDT1 7.7460e-003 0.01 tblVehicleEF LDT1 0.09 0.02 tblVehicleEF LDT1 1.50 1.60	tblVehicleEF	LDA	0.02	0.02
tblVehicleEF LDA 0.01 0.02 tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.31 0.10 tblVehicleEF LDT1 7.7460e-003 0.01 tblVehicleEF LDT1 0.09 0.02 tblVehicleEF LDT1 1.50 1.60	tblVehicleEF	LDA	0.11	0.11
tblVehicleEF LDA 0.03 0.04 tblVehicleEF LDA 0.31 0.10 tblVehicleEF LDT1 7.7460e-003 0.01 tblVehicleEF LDT1 0.09 0.02 tblVehicleEF LDT1 1.50 1.60	tblVehicleEF	LDA	0.02	0.01
tblVehicleEF LDA 0.31 0.10 tblVehicleEF LDT1 7.7460e-003 0.01 tblVehicleEF LDT1 0.09 0.02 tblVehicleEF LDT1 1.50 1.60	tblVehicleEF	LDA	0.01	0.02
tblVehicleEF LDT1 7.7460e-003 0.01 tblVehicleEF LDT1 0.09 0.02 tblVehicleEF LDT1 1.50 1.60	tblVehicleEF	LDA	0.03	0.04
tblVehicleEF LDT1 0.09 0.02 tblVehicleEF LDT1 1.50 1.60	tblVehicleEF	LDA	0.31	0.10
tblVehicleEF LDT1 1.50 1.60	tblVehicleEF	LDT1	7.7460e-003	0.01
<u>i</u>	tblVehicleEF	LDT1	0.09	0.02
tblVehicleEF LDT1 2.57 4.05	tblVehicleEF	LDT1	1.50	1.60
	tblVehicleEF	LDT1	2.57	4.05

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tbVehicleEF LDT1 319.07 331.83 tbVehicleEF LDT1 66.98 72.74 tbVehicleEF LDT1 0.13 0.16 tbVehicleEF LDT1 0.32 0.23 tbVehicleEF LDT1 2.3800e-003 3.0180e-003 tbVehicleEF LDT1 2.920e-003 3.9590e-003 tbVehicleEF LDT1 2.1910e-003 2.7790e-003 tbVehicleEF LDT1 0.21 0.21 tbVehicleEF LDT1 0.21 0.21 tbVehicleEF LDT1 0.29 0.40 tbVehicleEF LDT1 0.03 0.03 tbVehicleEF LDT1 0.03 0.03 tbVehicleEF LDT1 0.03 0.03 tbVehicleEF LDT1 0.48 0.29 tbVehicleEF LDT1 0.48 0.29 tbVehicleEF LDT1 0.5000-004 7.9900e-004 tbVehicleEF LDT1 0.21 0.21 tbVehicleEF				
tbl/ehideEF LDT1 0.13 0.16 tbl/ehideEF LDT1 0.32 0.23 tbl/ehideEF LDT1 2.3800e-003 3.0180e-003 tbl/ehideEF LDT1 2.9220e-003 3.6990e-003 tbl/ehideEF LDT1 2.9190e-003 2.7790e-003 tbl/ehideEF LDT1 0.21 0.21 tbl/ehideEF LDT1 0.29 0.40 tbl/ehideEF LDT1 0.14 0.14 tbl/ehideEF LDT1 0.03 0.03 tbl/ehideEF LDT1 0.03 0.03 tbl/ehideEF LDT1 0.48 0.29 tbl/ehideEF LDT1 0.21 0.21 tbl/ehideEF LDT1 0.29 0.40 tbl/ehideEF LDT1	tblVehicleEF	LDT1	319.07	331.83
tb/VehicleEF LDT1 0.32 0.23 tb/VehicleEF LDT1 2.8800e-003 3.0180e-003 tb/VehicleEF LDT1 2.9220e-003 3.9590e-003 tb/VehicleEF LDT1 2.1810e-003 2.7780e-003 tb/VehicleEF LDT1 2.8870e-003 3.6410e-003 tb/VehicleEF LDT1 0.21 0.21 tb/VehicleEF LDT1 0.29 0.40 tb/VehicleEF LDT1 0.14 0.14 tb/VehicleEF LDT1 0.03 0.03 tb/VehicleEF LDT1 0.48 0.29 tb/VehicleEF LDT1 0.48 0.29 tb/VehicleEF LDT1 0.48 0.29 tb/VehicleEF LDT1 0.48 0.29 tb/VehicleEF LDT1 0.6300e-004 7.9900e-004 tb/VehicleEF LDT1 0.29 0.40 tb/VehicleEF LDT1 0.14 0.14 tb/VehicleEF LDT1 0.05 0.05 <t< td=""><td>tblVehicleEF</td><td>LDT1</td><td>66.98</td><td>72.74</td></t<>	tblVehicleEF	LDT1	66.98	72.74
tbl/vehicleEF LDT1 2,3800e-003 3,0180e-003 tbl/vehicleEF LDT1 2,9220e-003 3,9590e-003 tbl/vehicleEF LDT1 2,9220e-003 2,7790e-003 tbl/vehicleEF LDT1 2,6870e-003 3,6410e-003 tbl/vehicleEF LDT1 0,21 0,21 tbl/vehicleEF LDT1 0,29 0,40 tbl/vehicleEF LDT1 0,14 0,14 tbl/vehicleEF LDT1 0,03 0,03 tbl/vehicleEF LDT1 0,48 0,29 tbl/vehicleEF LDT1 0,48 0,29 tbl/vehicleEF LDT1 3,1570e-003 3,3390e-003 tbl/vehicleEF LDT1 6,5300e-004 7,9900e-004 tbl/vehicleEF LDT1 0,21 0,21 tbl/vehicleEF LDT1 0,21 0,21 tbl/vehicleEF LDT1 0,14 0,14 tbl/vehicleEF LDT1 0,13 0,23 tbl/vehicleEF LDT1 0,13 0,23 <td>tblVehicleEF</td> <td>LDT1</td> <td>0.13</td> <td>0.16</td>	tblVehicleEF	LDT1	0.13	0.16
tbl/vehicleEF LDT1 2.9220e-003 3.9590e-003 tbl/vehicleEF LDT1 2.1910e-003 2.7790e-003 tbl/vehicleEF LDT1 2.6870e-003 3.6410e-003 tbl/vehicleEF LDT1 0.21 0.21 tbl/vehicleEF LDT1 0.029 0.40 tbl/vehicleEF LDT1 0.14 0.14 tbl/vehicleEF LDT1 0.03 0.03 tbl/vehicleEF LDT1 0.48 0.29 tbl/vehicleEF LDT1 0.48 0.29 tbl/vehicleEF LDT1 0.48 0.29 tbl/vehicleEF LDT1 0.48 0.29 tbl/vehicleEF LDT1 0.6300e-004 7.9900e-003 tbl/vehicleEF LDT1 0.21 0.21 0.21 tbl/vehicleEF LDT1 0.29 0.40 0.04 tbl/vehicleEF LDT1 0.05 0.05 0.05 tbl/vehicleEF LDT1 0.03 0.02 0.05 tbl/vehicleEF	tblVehicleEF	LDT1	0.32	0.23
tblVehicleEF LDT1 2.1910e-003 2.7790e-003 tblVehicleEF LDT1 2.6870e-003 3.6410e-003 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.03 0.03 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.48 0.29 tblVehicleEF LDT1 3.1570e-003 3.3390e-003 tblVehicleEF LDT1 6.6300e-004 7.9900e-004 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02 tblVehicleEF LDT1 8.9040e-003 0.02 <t< td=""><td>tblVehicleEF</td><td>LDT1</td><td>2.3800e-003</td><td>3.0180e-003</td></t<>	tblVehicleEF	LDT1	2.3800e-003	3.0180e-003
biVehicleEF LDT1 2,6870e-003 3,6410e-003 biVehicleEF LDT1 0,21 0,21 biVehicleEF LDT1 0,29 0,40 biVehicleEF LDT1 0,14 0,14 biVehicleEF LDT1 0,03 0,03 biVehicleEF LDT1 0,13 0,23 biVehicleEF LDT1 0,48 0,29 biVehicleEF LDT1 0,48 0,29 biVehicleEF LDT1 3,1570e-003 3,3390e-003 biVehicleEF LDT1 6,6300e-004 7,9900e-004 biVehicleEF LDT1 0,21 0,21 biVehicleEF LDT1 0,29 0,40 biVehicleEF LDT1 0,14 0,14 biVehicleEF LDT1 0,05 0,05 biVehicleEF LDT1 0,13 0,23 biVehicleEF LDT1 0,53 0,31 biVehicleEF LDT1 0,53 0,31 biVehicleEF LDT1	tblVehicleEF	LDT1	2.9220e-003	3.9590e-003
tbl/ehicleEF LDT1 0.21 0.21 tbl/ehicleEF LDT1 0.29 0.40 tbl/ehicleEF LDT1 0.14 0.14 tbl/ehicleEF LDT1 0.03 0.03 tbl/ehicleEF LDT1 0.13 0.23 tbl/ehicleEF LDT1 0.48 0.29 tbl/ehicleEF LDT1 3.1570e-003 3.3390e-003 tbl/ehicleEF LDT1 6.6300e-004 7.9900e-004 tbl/ehicleEF LDT1 0.21 0.21 tbl/ehicleEF LDT1 0.29 0.40 tbl/ehicleEF LDT1 0.14 0.14 tbl/ehicleEF LDT1 0.05 0.05 tbl/ehicleEF LDT1 0.13 0.23 tbl/ehicleEF LDT1 0.53 0.31 tbl/ehicleEF LDT1 0.08 0.02 tbl/ehicleEF LDT1 0.08 0.02 tbl/ehicleEF LDT1 1.84 1.94 tbl/ehicleEF LDT1	tblVehicleEF	LDT1	2.1910e-003	2.7790e-003
tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.03 0.03 tblVehicleEF LDT1 0.48 0.29 tblVehicleEF LDT1 3.1570e-003 3.3390e-003 tblVehicleEF LDT1 6.6300e-004 7.9900e-004 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 0.08 0.02 tblVehicleEF LDT1 1.84 1.94 tblVehicleEF LDT1 1.84 1.94 tblVehicleEF LDT1 2.10 3.30 tblVehicleEF LDT1	tblVehicleEF	LDT1	2.6870e-003	3.6410e-003
tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.03 0.03 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.48 0.29 tblVehicleEF LDT1 3.1570e-003 3.3390e-003 tblVehicleEF LDT1 6.6300e-004 7.9900e-004 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02 tblVehicleEF LDT1 1.84 1.94 tblVehicleEF LDT1 2.10 3.30 tblVehicleEF LDT1 346.37 363.20 tblVehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	0.21	0.21
tblVehicleEF LDT1 0.03 0.03 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.48 0.29 tblVehicleEF LDT1 3.1570e-003 3.3390e-003 tblVehicleEF LDT1 6.6300e-004 7.9900e-004 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02 tblVehicleEF LDT1 1.84 1.94 tblVehicleEF LDT1 2.10 3.30 tblVehicleEF LDT1 346.37 363.20 tblVehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	0.29	0.40
tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.48 0.29 tblVehicleEF LDT1 3.1570e-003 3.3390e-003 tblVehicleEF LDT1 6.6300e-004 7.9900e-004 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02 tblVehicleEF LDT1 0.08 0.02 tblVehicleEF LDT1 1.84 1.94 tblVehicleEF LDT1 2.10 3.30 tblVehicleEF LDT1 346.37 363.20 tblVehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF LDT1 0.48 0.29 tblVehicleEF LDT1 3.1570e-003 3.3390e-003 tblVehicleEF LDT1 6.6300e-004 7.9900e-004 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02 tblVehicleEF LDT1 0.08 0.02 tblVehicleEF LDT1 1.84 1.94 tblVehicleEF LDT1 2.10 3.30 tblVehicleEF LDT1 346.37 363.20 tblVehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	0.03	0.03
tb/VehicleEF LDT1 3.1570e-003 3.3390e-003 tb/VehicleEF LDT1 6.6300e-004 7.9900e-004 tb/VehicleEF LDT1 0.21 0.21 tb/VehicleEF LDT1 0.29 0.40 tb/VehicleEF LDT1 0.14 0.14 tb/VehicleEF LDT1 0.05 0.05 tb/VehicleEF LDT1 0.13 0.23 tb/VehicleEF LDT1 0.53 0.31 tb/VehicleEF LDT1 8.9040e-003 0.02 tb/VehicleEF LDT1 1.84 1.94 tb/VehicleEF LDT1 1.84 1.94 tb/VehicleEF LDT1 2.10 3.30 tb/VehicleEF LDT1 346.37 363.20 tb/VehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	0.13	0.23
tblVehicleEF LDT1 6.6300e-004 7.9900e-004 tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02 tblVehicleEF LDT1 0.08 0.02 tblVehicleEF LDT1 1.84 1.94 tblVehicleEF LDT1 2.10 3.30 tblVehicleEF LDT1 346.37 363.20 tblVehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	0.48	0.29
tblVehicleEF LDT1 0.21 0.21 tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02 tblVehicleEF LDT1 0.08 0.02 tblVehicleEF LDT1 1.84 1.94 tblVehicleEF LDT1 2.10 3.30 tblVehicleEF LDT1 346.37 363.20 tblVehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	3.1570e-003	3.3390e-003
tblVehicleEF LDT1 0.29 0.40 tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02 tblVehicleEF LDT1 0.08 0.02 tblVehicleEF LDT1 1.84 1.94 tblVehicleEF LDT1 2.10 3.30 tblVehicleEF LDT1 346.37 363.20 tblVehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	6.6300e-004	7.9900e-004
tblVehicleEF LDT1 0.14 0.14 tblVehicleEF LDT1 0.05 0.05 tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02 tblVehicleEF LDT1 0.08 0.02 tblVehicleEF LDT1 1.84 1.94 tblVehicleEF LDT1 2.10 3.30 tblVehicleEF LDT1 346.37 363.20 tblVehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	0.21	0.21
tbl/ehicleEF LDT1 0.05 0.05 tbl/ehicleEF LDT1 0.13 0.23 tbl/ehicleEF LDT1 0.53 0.31 tbl/ehicleEF LDT1 8.9040e-003 0.02 tbl/ehicleEF LDT1 0.08 0.02 tbl/ehicleEF LDT1 1.84 1.94 tbl/ehicleEF LDT1 2.10 3.30 tbl/ehicleEF LDT1 346.37 363.20 tbl/ehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	0.29	0.40
tblVehicleEF LDT1 0.13 0.23 tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02 tblVehicleEF LDT1 0.08 0.02 tblVehicleEF LDT1 1.84 1.94 tblVehicleEF LDT1 2.10 3.30 tblVehicleEF LDT1 346.37 363.20 tblVehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF LDT1 0.53 0.31 tblVehicleEF LDT1 8.9040e-003 0.02 tblVehicleEF LDT1 0.08 0.02 tblVehicleEF LDT1 1.84 1.94 tblVehicleEF LDT1 2.10 3.30 tblVehicleEF LDT1 346.37 363.20 tblVehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF LDT1 8.9040e-003 0.02 tblVehicleEF LDT1 0.08 0.02 tblVehicleEF LDT1 1.84 1.94 tblVehicleEF LDT1 2.10 3.30 tblVehicleEF LDT1 346.37 363.20 tblVehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	0.13	0.23
tblVehicleEF LDT1 0.08 0.02 tblVehicleEF LDT1 1.84 1.94 tblVehicleEF LDT1 2.10 3.30 tblVehicleEF LDT1 346.37 363.20 tblVehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	0.53	0.31
tblVehicleEF LDT1 1.84 1.94 tblVehicleEF LDT1 2.10 3.30 tblVehicleEF LDT1 346.37 363.20 tblVehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	8.9040e-003	0.02
tbl/VehicleEF LDT1 2.10 3.30 tbl/VehicleEF LDT1 346.37 363.20 tbl/VehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	0.08	0.02
tblVehicleEF LDT1 346.37 363.20 tblVehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	1.84	1.94
tblVehicleEF LDT1 65.95 72.74	tblVehicleEF	LDT1	2.10	3.30
Li	tblVehicleEF	LDT1	346.37	363.20
tblVehicleEF LDT1 0.12 0.14	tblVehicleEF	LDT1	65.95	72.74
	tblVehicleEF	LDT1	0.12	0.14

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tbVehicleEF LDT1 2.3800e-003 3.0180e-003 tbVehicleEF LDT1 2.3800e-003 3.0180e-003 tbVehicleEF LDT1 2.9220e-003 3.27790e-003 tbVehicleEF LDT1 2.6870e-003 3.6410e-003 tbVehicleEF LDT1 0.51 0.52 tbVehicleEF LDT1 0.37 0.50 tbVehicleEF LDT1 0.30 0.30 tbVehicleEF LDT1 0.04 0.04 tbVehicleEF LDT1 0.03 0.22 tbVehicleEF LDT1 0.04 0.04 tbVehicleEF LDT1 0.40 0.23 tbVehicleEF LDT1 3.4280e-003 3.6570e-003 tbVehicleEF LDT1 0.51 0.52 tbVehicleEF LDT1 0.51 0.52 tbVehicleEF LDT1 0.53 0.30 tbVehicleEF LDT1 0.30 0.30 tbVehicleEF LDT1 0.43 0.26 tbVehicleEF <th></th> <th></th> <th></th> <th></th>				
tbl/ehideEF LDT1 2.9220e-003 3.9590e-003 tbl/ehideEF LDT1 2.1910e-003 2.7790e-003 tbl/ehideEF LDT1 2.6870e-003 3.6410e-003 tbl/ehideEF LDT1 0.51 0.52 tbl/ehideEF LDT1 0.37 0.50 tbl/ehideEF LDT1 0.30 0.30 tbl/ehideEF LDT1 0.04 0.04 tbl/ehideEF LDT1 0.13 0.22 tbl/ehideEF LDT1 0.40 0.23 tbl/ehideEF LDT1 3.4280e-003 3.6570e-003 tbl/ehideEF LDT1 3.4280e-003 3.6570e-003 tbl/ehideEF LDT1 6.8300e-004 7.8500e-004 tbl/ehideEF LDT1 0.51 0.52 tbl/ehideEF LDT1 0.37 0.50 tbl/ehideEF LDT1 0.30 0.30 tbl/ehideEF LDT1 0.13 0.22 tbl/ehideEF LDT1 0.13 0.26 t	tblVehicleEF	LDT1	0.30	0.22
tblVehideEF LDT1 2.1910e-003 2.7790e-003 tblVehideEF LDT1 2.6870e-003 3.6410e-003 tblVehideEF LDT1 0.51 0.52 tblVehideEF LDT1 0.37 0.50 tblVehideEF LDT1 0.30 0.30 tblVehideEF LDT1 0.04 0.04 tblVehideEF LDT1 0.40 0.23 tblVehideEF LDT1 0.40 0.23 tblVehideEF LDT1 3.4280e-003 3.6570e-003 tblVehideEF LDT1 6.5300e-004 7.8500e-004 tblVehideEF LDT1 0.51 0.52 tblVehideEF LDT1 0.37 0.50 tblVehideEF LDT1 0.30 0.30 tblVehideEF LDT1 0.06 0.06 tblVehideEF LDT1 0.13 0.22 tblVehideEF LDT1 7.2620e-003 0.01 tblVehideEF LDT1 0.11 0.10 tblVehideEF	tblVehicleEF	LDT1	2.3800e-003	3.0180e-003
tbl/ehicleEF LDT1 2.6870e-003 3.6410e-003 tbl/ehicleEF LDT1 0.51 0.52 tbl/ehicleEF LDT1 0.37 0.50 tbl/ehicleEF LDT1 0.30 0.30 tbl/ehicleEF LDT1 0.04 0.04 tbl/ehicleEF LDT1 0.13 0.22 tbl/ehicleEF LDT1 0.40 0.23 tbl/ehicleEF LDT1 3.4280e-003 3.6870e-003 tbl/ehicleEF LDT1 6.5300e-004 7.8500e-004 tbl/ehicleEF LDT1 0.51 0.52 tbl/ehicleEF LDT1 0.37 0.50 tbl/ehicleEF LDT1 0.37 0.50 tbl/ehicleEF LDT1 0.30 0.30 tbl/ehicleEF LDT1 0.06 0.06 tbl/ehicleEF LDT1 0.43 0.26 tbl/ehicleEF LDT1 7.2620e-003 0.01 tbl/ehicleEF LDT1 0.11 0.02 tbl/ehicleEF	tblVehicleEF	LDT1	2.9220e-003	3.9590e-003
tbl/ehicleEF LDT1 0.61 0.52 tbl/ehicleEF LDT1 0.37 0.50 tbl/ehicleEF LDT1 0.30 0.30 tbl/ehicleF LDT1 0.04 0.04 tbl/ehicleF LDT1 0.40 0.23 tbl/ehicleF LDT1 0.40 0.23 tbl/ehicleF LDT1 0.52 0.52 tbl/ehicleF LDT1 0.5300-004 7.8500-003 tbl/ehicleF LDT1 0.51 0.52 tbl/ehicleF LDT1 0.37 0.50 tbl/ehicleF LDT1 0.37 0.50 tbl/ehicleF LDT1 0.30 0.30 tbl/ehicleF LDT1 0.30 0.30 tbl/ehicleF LDT1 0.13 0.22 tbl/ehicleF LDT1 0.43 0.26 tbl/ehicleF LDT1 7.2620e-003 0.01 tbl/ehicleF LDT1 0.11 0.02 tbl/ehicleF LDT1 3.14	tblVehicleEF	LDT1	2.1910e-003	2.7790e-003
tbl/ehicleEF LDT1 0.37 0.50 tbl/ehicleEF LDT1 0.30 0.30 tbl/ehicleEF LDT1 0.04 0.04 tbl/ehicleEF LDT1 0.13 0.22 tbl/ehicleEF LDT1 0.40 0.23 tbl/ehicleEF LDT1 3.4280e-003 3.6570e-003 tbl/ehicleEF LDT1 6.5300e-004 7.8500e-004 tbl/ehicleEF LDT1 0.51 0.52 tbl/ehicleEF LDT1 0.37 0.50 tbl/ehicleEF LDT1 0.37 0.50 tbl/ehicleEF LDT1 0.30 0.30 tbl/ehicleEF LDT1 0.06 0.06 tbl/ehicleEF LDT1 0.43 0.26 tbl/ehicleEF LDT1 7.2620e-003 0.01 tbl/ehicleEF LDT1 3.14 4.94 tbl/ehicleEF LDT1 3.14 4.94 tbl/ehicleEF LDT1 3.14 4.94 tbl/ehicleEF LDT	tblVehicleEF	LDT1	2.6870e-003	3.6410e-003
tbl/ehicleEF LDT1 0.30 0.30 tbl/ehicleEF LDT1 0.04 0.04 tbl/ehicleEF LDT1 0.13 0.22 tbl/ehicleEF LDT1 0.40 0.23 tbl/ehicleEF LDT1 3.4280e-003 3.6570e-003 tbl/ehicleEF LDT1 6.5300e-004 7.8500e-004 tbl/ehicleEF LDT1 0.51 0.52 tbl/ehicleEF LDT1 0.37 0.50 tbl/ehicleEF LDT1 0.30 0.30 tbl/ehicleEF LDT1 0.06 0.06 tbl/ehicleEF LDT1 0.13 0.22 tbl/ehicleEF LDT1 0.43 0.26 tbl/ehicleEF LDT1 7.2620e-003 0.01 tbl/ehicleEF LDT1 0.41 0.02 tbl/ehicleEF LDT1 0.11 0.02 tbl/ehicleEF LDT1 3.14 4.94 tbl/ehicleEF LDT1 3.04 4.94 tbl/ehicleEF LDT	tblVehicleEF	LDT1	0.51	0.52
tbl/ehicleEF LDT1 0.04 0.04 tbl/ehicleEF LDT1 0.13 0.22 tbl/ehicleEF LDT1 0.40 0.23 tbl/ehicleEF LDT1 3.4280e-003 3.6570e-003 tbl/ehicleEF LDT1 6.5300e-004 7.8500e-004 tbl/ehicleEF LDT1 0.51 0.52 tbl/ehicleEF LDT1 0.37 0.50 tbl/ehicleEF LDT1 0.30 0.30 tbl/ehicleEF LDT1 0.06 0.06 tbl/ehicleEF LDT1 0.13 0.22 tbl/ehicleEF LDT1 0.43 0.26 tbl/ehicleEF LDT1 7.2620e-003 0.01 tbl/ehicleEF LDT1 0.11 0.02 tbl/ehicleEF LDT1 3.14 4.94 tbl/ehicleEF LDT1 3.04 4.94 tbl/ehicleEF LDT1 3.04 0.26 tbl/ehicleEF LDT1 0.14 0.17 tbl/ehicleEF LDT	tblVehicleEF	LDT1	0.37	0.50
tblVehicleEF LDT1 0.13 0.22 tblVehicleEF LDT1 0.40 0.23 tblVehicleEF LDT1 3.4280e-003 3.6570e-003 tblVehicleEF LDT1 6.5300e-004 7.8500e-004 tblVehicleEF LDT1 0.51 0.52 tblVehicleEF LDT1 0.37 0.50 tblVehicleEF LDT1 0.30 0.30 tblVehicleEF LDT1 0.06 0.06 tblVehicleEF LDT1 0.13 0.22 tblVehicleEF LDT1 0.43 0.26 tblVehicleEF LDT1 7.2620e-003 0.01 tblVehicleEF LDT1 0.11 0.02 tblVehicleEF LDT1 1.41 1.50 tblVehicleEF LDT1 3.14 4.94 tblVehicleEF LDT1 3.99.62 320.94 tblVehicleEF LDT1 68.15 72.74 tblVehicleEF LDT1 0.14 0.17 tblVehicleEF	tblVehicleEF	LDT1	0.30	0.30
tblVehicleEF LDT1 0.40 0.23 tblVehicleEF LDT1 3.4280e-003 3.6570e-003 tblVehicleEF LDT1 6.5300e-004 7.8500e-004 tblVehicleEF LDT1 0.51 0.52 tblVehicleEF LDT1 0.37 0.50 tblVehicleEF LDT1 0.30 0.30 tblVehicleEF LDT1 0.06 0.06 tblVehicleEF LDT1 0.43 0.22 tblVehicleEF LDT1 7.2620e-003 0.01 tblVehicleEF LDT1 0.11 0.02 tblVehicleEF LDT1 1.41 1.50 tblVehicleEF LDT1 3.14 4.94 tblVehicleEF LDT1 3.14 4.94 tblVehicleEF LDT1 68.15 72.74 tblVehicleEF LDT1 0.14 0.17 tblVehicleEF LDT1 0.36 0.26 tblVehicleEF LDT1 0.36 0.26 tblVehicleEF L	tblVehicleEF	LDT1	0.04	0.04
tbl/VehicleEF LDT1 3.4280e-003 3.6570e-003 tbl/VehicleEF LDT1 6.5300e-004 7.8500e-004 tbl/VehicleEF LDT1 0.51 0.52 tbl/VehicleEF LDT1 0.37 0.50 tbl/VehicleEF LDT1 0.30 0.30 tbl/VehicleEF LDT1 0.06 0.06 tbl/VehicleEF LDT1 0.43 0.26 tbl/VehicleEF LDT1 7.2620e-003 0.01 tbl/VehicleEF LDT1 0.11 0.02 tbl/VehicleEF LDT1 1.41 1.50 tbl/VehicleEF LDT1 3.14 4.94 tbl/VehicleEF LDT1 3.962 320.94 tbl/VehicleEF LDT1 68.15 72.74 tbl/VehicleEF LDT1 0.14 0.17 tbl/VehicleEF LDT1 0.36 0.26 tbl/VehicleEF LDT1 2.3800e-003 3.0180e-003	tblVehicleEF	LDT1	0.13	0.22
tblVehicleEF LDT1 6.5300e-004 7.8500e-004 tblVehicleEF LDT1 0.51 0.52 tblVehicleEF LDT1 0.37 0.50 tblVehicleEF LDT1 0.30 0.30 tblVehicleEF LDT1 0.06 0.06 tblVehicleEF LDT1 0.43 0.22 tblVehicleEF LDT1 7.2620e-003 0.01 tblVehicleEF LDT1 0.11 0.02 tblVehicleEF LDT1 1.41 1.50 tblVehicleEF LDT1 3.14 4.94 tblVehicleEF LDT1 30.962 320.94 tblVehicleEF LDT1 68.15 72.74 tblVehicleEF LDT1 0.14 0.17 tblVehicleEF LDT1 0.36 0.26 tblVehicleEF LDT1 0.36 0.26 tblVehicleEF LDT1 2.3800e-003 3.0180e-003	tblVehicleEF	LDT1	0.40	0.23
tblVehicleEF LDT1 0.51 0.52 tblVehicleEF LDT1 0.37 0.50 tblVehicleEF LDT1 0.30 0.30 tblVehicleEF LDT1 0.06 0.06 tblVehicleEF LDT1 0.13 0.22 tblVehicleEF LDT1 0.43 0.26 tblVehicleEF LDT1 7.2620e-003 0.01 tblVehicleEF LDT1 0.11 0.02 tblVehicleEF LDT1 1.41 1.50 tblVehicleEF LDT1 3.14 4.94 tblVehicleEF LDT1 309.62 320.94 tblVehicleEF LDT1 68.15 72.74 tblVehicleEF LDT1 0.14 0.17 tblVehicleEF LDT1 0.36 0.26 tblVehicleEF LDT1 2.3800e-003 3.0180e-003	tblVehicleEF	LDT1	3.4280e-003	3.6570e-003
tblVehicleEF LDT1 0.37 0.50 tblVehicleEF LDT1 0.30 0.30 tblVehicleEF LDT1 0.06 0.06 tblVehicleEF LDT1 0.13 0.22 tblVehicleEF LDT1 0.43 0.26 tblVehicleEF LDT1 7.2620e-003 0.01 tblVehicleEF LDT1 0.11 0.02 tblVehicleEF LDT1 1.41 1.50 tblVehicleEF LDT1 3.14 4.94 tblVehicleEF LDT1 309.62 320.94 tblVehicleEF LDT1 68.15 72.74 tblVehicleEF LDT1 0.14 0.17 tblVehicleEF LDT1 0.36 0.26 tblVehicleEF LDT1 2.3800e-003 3.0180e-003	tblVehicleEF	LDT1	6.5300e-004	7.8500e-004
tbl/ehicleEF LDT1 0.30 0.30 tbl/ehicleEF LDT1 0.06 0.06 tbl/ehicleEF LDT1 0.13 0.22 tbl/ehicleEF LDT1 0.43 0.26 tbl/ehicleEF LDT1 7.2620e-003 0.01 tbl/ehicleEF LDT1 0.11 0.02 tbl/ehicleEF LDT1 1.41 1.50 tbl/ehicleEF LDT1 3.14 4.94 tbl/ehicleEF LDT1 309.62 320.94 tbl/ehicleEF LDT1 68.15 72.74 tbl/ehicleEF LDT1 0.14 0.17 tbl/ehicleEF LDT1 0.36 0.26 tbl/ehicleEF LDT1 2.3800e-003 3.0180e-003	tblVehicleEF	LDT1	0.51	0.52
tblVehicleEF LDT1 0.06 0.06 tblVehicleEF LDT1 0.13 0.22 tblVehicleEF LDT1 0.43 0.26 tblVehicleEF LDT1 7.2620e-003 0.01 tblVehicleEF LDT1 0.11 0.02 tblVehicleEF LDT1 1.41 1.50 tblVehicleEF LDT1 3.14 4.94 tblVehicleEF LDT1 309.62 320.94 tblVehicleEF LDT1 68.15 72.74 tblVehicleEF LDT1 0.14 0.17 tblVehicleEF LDT1 0.36 0.26 tblVehicleEF LDT1 2.3800e-003 3.0180e-003	tblVehicleEF	LDT1	0.37	0.50
tblVehicleEF LDT1 0.13 0.22 tblVehicleEF LDT1 0.43 0.26 tblVehicleEF LDT1 7.2620e-003 0.01 tblVehicleEF LDT1 0.11 0.02 tblVehicleEF LDT1 1.41 1.50 tblVehicleEF LDT1 3.14 4.94 tblVehicleEF LDT1 309.62 320.94 tblVehicleEF LDT1 68.15 72.74 tblVehicleEF LDT1 0.14 0.17 tblVehicleEF LDT1 0.36 0.26 tblVehicleEF LDT1 2.3800e-003 3.0180e-003	tblVehicleEF	LDT1	0.30	0.30
tblVehicleEF LDT1 0.43 0.26 tblVehicleEF LDT1 7.2620e-003 0.01 tblVehicleEF LDT1 0.11 0.02 tblVehicleEF LDT1 1.41 1.50 tblVehicleEF LDT1 3.14 4.94 tblVehicleEF LDT1 309.62 320.94 tblVehicleEF LDT1 68.15 72.74 tblVehicleEF LDT1 0.14 0.17 tblVehicleEF LDT1 0.36 0.26 tblVehicleEF LDT1 2.3800e-003 3.0180e-003	tblVehicleEF	LDT1	0.06	0.06
tbl/ehicleEF LDT1 7.2620e-003 0.01 tbl/ehicleEF LDT1 0.11 0.02 tbl/ehicleEF LDT1 1.41 1.50 tbl/ehicleEF LDT1 3.14 4.94 tbl/ehicleEF LDT1 309.62 320.94 tbl/ehicleEF LDT1 68.15 72.74 tbl/ehicleEF LDT1 0.14 0.17 tbl/ehicleEF LDT1 0.36 0.26 tbl/ehicleEF LDT1 2.3800e-003 3.0180e-003	tblVehicleEF	LDT1	0.13	0.22
tblVehicleEF LDT1 0.11 0.02 tblVehicleEF LDT1 1.41 1.50 tblVehicleEF LDT1 3.14 4.94 tblVehicleEF LDT1 309.62 320.94 tblVehicleEF LDT1 68.15 72.74 tblVehicleEF LDT1 0.14 0.17 tblVehicleEF LDT1 0.36 0.26 tblVehicleEF LDT1 2.3800e-003 3.0180e-003	tblVehicleEF	LDT1	0.43	0.26
tblVehicleEF LDT1 1.41 1.50 tblVehicleEF LDT1 3.14 4.94 tblVehicleEF LDT1 309.62 320.94 tblVehicleEF LDT1 68.15 72.74 tblVehicleEF LDT1 0.14 0.17 tblVehicleEF LDT1 0.36 0.26 tblVehicleEF LDT1 2.3800e-003 3.0180e-003	tblVehicleEF	LDT1	7.2620e-003	0.01
tblVehicleEF LDT1 3.14 4.94 tblVehicleEF LDT1 309.62 320.94 tblVehicleEF LDT1 68.15 72.74 tblVehicleEF LDT1 0.14 0.17 tblVehicleEF LDT1 0.36 0.26 tblVehicleEF LDT1 2.3800e-003 3.0180e-003	tblVehicleEF	LDT1	0.11	0.02
tblVehicleEF LDT1 309.62 320.94 tblVehicleEF LDT1 68.15 72.74 tblVehicleEF LDT1 0.14 0.17 tblVehicleEF LDT1 0.36 0.26 tblVehicleEF LDT1 2.3800e-003 3.0180e-003	tblVehicleEF	LDT1	1.41	1.50
tblVehicleEF LDT1 68.15 72.74 tblVehicleEF LDT1 0.14 0.17 tblVehicleEF LDT1 0.36 0.26 tblVehicleEF LDT1 2.3800e-003 3.0180e-003	tblVehicleEF	LDT1	3.14	4.94
tblVehicleEF LDT1 0.14 0.17 tblVehicleEF LDT1 0.36 0.26 tblVehicleEF LDT1 2.3800e-003 3.0180e-003	tblVehicleEF	LDT1	309.62	320.94
tblVehicleEF LDT1 0.36 0.26 tblVehicleEF LDT1 2.3800e-003 3.0180e-003	tblVehicleEF	LDT1	68.15	72.74
tblVehicleEF LDT1 2.3800e-003 3.0180e-003	tblVehicleEF	LDT1	0.14	0.17
<u> </u>	tblVehicleEF	LDT1	0.36	0.26
tblVehicleEF LDT1 2.9220e-003 3.9590e-003	tblVehicleEF	LDT1	2.3800e-003	3.0180e-003
	tblVehicleEF	LDT1	2.9220e-003	3.9590e-003

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tblVehicleEF	LDT1	2.1910e-003	2.7790e-003
tblVehicleEF	LDT1	2.6870e-003	3.6410e-003
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.30	0.41
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.16	0.28
tblVehicleEF	LDT1	0.57	0.34
tblVehicleEF	LDT1	3.0640e-003	3.2280e-003
tblVehicleEF	LDT1	6.7400e-004	8.1500e-004
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.30	0.41
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.16	0.28
tblVehicleEF	LDT1	0.62	0.37
tblVehicleEF	LDT2	4.8240e-003	7.0580e-003
tblVehicleEF	LDT2	0.08	9.4500e-003
tblVehicleEF	LDT2	1.03	0.87
tblVehicleEF	LDT2	2.94	1.94
tblVehicleEF	LDT2	344.56	373.55
tblVehicleEF	LDT2	72.54	81.99
tblVehicleEF	LDT2	0.10	0.09
tblVehicleEF	LDT2	0.34	0.16
tblVehicleEF	LDT2	1.6530e-003	1.8740e-003
tblVehicleEF	LDT2	1.9550e-003	2.3960e-003
tblVehicleEF	LDT2	1.5210e-003	1.7230e-003
tblVehicleEF	LDT2	1.7970e-003	2.2030e-003
tblVehicleEF	LDT2	0.11	0.08

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tbVwhideEF LDT2 0.17 0.16 tbVwhideEF LDT2 0.09 0.06 tbVwhideEF LDT2 0.02 0.02 tbVwhideEF LDT2 0.38 0.13 tbVwhideEF LDT2 3.4990e-003 3.7430e-003 tbVwhideEF LDT2 7.1800e-004 8.5300e-004 tbVwhideEF LDT2 0.11 0.08 tbVwhideEF LDT2 0.11 0.08 tbVwhideEF LDT2 0.01 0.06 tbVwhideEF LDT2 0.09 0.06 tbVwhideEF LDT2 0.07 0.03 tbVwhideEF LDT2 0.07 0.08 tbVwhideEF LDT2 0.07 0.08 tbVwhideEF LDT2 0.5740e-003 8.0970e-003 tbVwhideEF LDT2 0.5740e-003 8.0970e-003 tbVwhideEF LDT2 0.07 7.7990e-003 tbVwhideEF LDT2 2.40 1.59 tbVwhideEF LDT2				
BolyehicleEF	tblVehicleEF	LDT2	0.17	0.16
tbl/ehicleEF LDT2 0.07 0.08 tbl/ehicleEF LDT2 0.38 0.13 tbl/ehicleEF LDT2 3.4090e-003 3.7430e-003 tbl/ehicleEF LDT2 7.1800e-004 8.5300e-004 tbl/ehicleEF LDT2 0.11 0.08 tbl/ehicleEF LDT2 0.17 0.16 tbl/ehicleEF LDT2 0.09 0.06 tbl/ehicleEF LDT2 0.03 0.03 tbl/ehicleEF LDT2 0.42 0.14 tbl/ehicleEF LDT2 0.42 0.14 tbl/ehicleEF LDT2 5.5740e-003 8.0970e-003 tbl/ehicleEF LDT2 0.07 7.7590e-003 tbl/ehicleEF LDT2 1.28 1.07 tbl/ehicleEF LDT2 2.40 1.59 tbl/ehicleEF LDT2 37.37 409.70 tbl/ehicleEF LDT2 71.46 81.99 tbl/ehicleEF LDT2 0.32 0.15 tbl/ehicleEF </td <td>tblVehicleEF</td> <td>LDT2</td> <td>0.09</td> <td>0.06</td>	tblVehicleEF	LDT2	0.09	0.06
tbl/vehicleEF LDT2 0.38 0.13 tbl/vehicleEF LDT2 3.4090e-003 3.7430e-003 tbl/vehicleEF LDT2 7.1800e-004 8.5300e-004 tbl/vehicleEF LDT2 0.11 0.08 tbl/vehicleF LDT2 0.17 0.16 tbl/vehicleF LDT2 0.09 0.06 tbl/vehicleF LDT2 0.07 0.08 tbl/vehicleF LDT2 0.42 0.14 tbl/vehicleF LDT2 0.07 0.08 tbl/vehicleF LDT2 5.5740e-003 8.0970e-003 tbl/vehicleF LDT2 0.07 7.7590e-003 tbl/vehicleF LDT2 1.28 1.07 tbl/vehicleF LDT2 2.40 1.59 tbl/vehicleF LDT2 371.37 409.70 tbl/vehicleF LDT2 71.46 81.99 tbl/vehicleF LDT2 0.09 0.08 tbl/vehicleF LDT2 1.6530e-003 1.8740e-003	tblVehicleEF	LDT2	0.02	0.02
tblVehideEF LDT2 3.4090e-003 3.7430e-003 tblVehideEF LDT2 7.1800e-004 8.5300e-004 tblVehideEF LDT2 0.11 0.08 tblVehideEF LDT2 0.17 0.16 tblVehideEF LDT2 0.09 0.06 tblVehideEF LDT2 0.03 0.03 tblVehideEF LDT2 0.07 0.08 tblVehideEF LDT2 0.42 0.14 tblVehideEF LDT2 5.5740e-003 8.0970e-003 tblVehideEF LDT2 0.07 7.7590e-003 tblVehideEF LDT2 1.28 1.07 tblVehideEF LDT2 2.40 1.59 tblVehideEF LDT2 371.37 409.70 tblVehideEF LDT2 71.46 81.99 tblVehideEF LDT2 0.32 0.15 tblVehideEF LDT2 1.8530e-003 1.8740e-003 tblVehideEF LDT2 1.9550e-003 2.3960e-003 tb	tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF LDT2 7.1800e-004 8.5300e-004 tblVehicleEF LDT2 0.11 0.08 tblVehicleEF LDT2 0.17 0.16 tblVehicleEF LDT2 0.09 0.06 tblVehicleEF LDT2 0.07 0.08 tblVehicleEF LDT2 0.42 0.14 tblVehicleEF LDT2 5.5740e-003 8.0970e-003 tblVehicleEF LDT2 0.07 7.7590e-003 tblVehicleEF LDT2 1.28 1.07 tblVehicleEF LDT2 2.40 1.59 tblVehicleEF LDT2 371.37 409.70 tblVehicleEF LDT2 71.46 81.99 tblVehicleEF LDT2 0.09 0.08 tblVehicleEF LDT2 0.32 0.15 tblVehicleEF LDT2 1.6530e-003 1.8740e-003 tblVehicleEF LDT2 1.9550e-003 2.3960e-003 tblVehicleEF LDT2 1.7970e-003 2.2030e-003 <t< td=""><td>tblVehicleEF</td><td>LDT2</td><td>0.38</td><td>0.13</td></t<>	tblVehicleEF	LDT2	0.38	0.13
tblVehicleEF LDT2 0.11 0.08 tblVehicleEF LDT2 0.17 0.16 tblVehicleEF LDT2 0.09 0.06 tblVehicleEF LDT2 0.03 0.03 tblVehicleEF LDT2 0.07 0.08 tblVehicleEF LDT2 0.42 0.14 tblVehicleEF LDT2 5.5740e-003 8.0970e-003 tblVehicleEF LDT2 0.07 7.7590e-003 tblVehicleEF LDT2 1.28 1.07 tblVehicleEF LDT2 2.40 1.59 tblVehicleEF LDT2 371.37 409.70 tblVehicleEF LDT2 71.46 81.99 tblVehicleEF LDT2 71.46 81.99 tblVehicleEF LDT2 0.09 0.08 tblVehicleEF LDT2 0.32 0.15 tblVehicleEF LDT2 1.6530e-003 1.8740e-003 tblVehicleEF LDT2 1.9550e-003 2.3960e-003 tblVehicleE	tblVehicleEF	LDT2	3.4090e-003	3.7430e-003
tblVehicleEF LDT2 0.17 0.16 tblVehicleEF LDT2 0.09 0.06 tblVehicleEF LDT2 0.03 0.03 tblVehicleEF LDT2 0.07 0.08 tblVehicleEF LDT2 0.42 0.14 tblVehicleEF LDT2 5.5740e-003 8.0970e-003 tblVehicleEF LDT2 0.07 7.7590e-003 tblVehicleEF LDT2 1.28 1.07 tblVehicleEF LDT2 2.40 1.59 tblVehicleEF LDT2 371.37 409.70 tblVehicleEF LDT2 71.46 81.99 tblVehicleEF LDT2 0.09 0.08 tblVehicleEF LDT2 1.6530e-003 1.8740e-003 tblVehicleEF LDT2 1.9550e-003 2.3960e-003 tblVehicleEF LDT2 1.5210e-003 1.7230e-003 tblVehicleEF LDT2 1.7970e-003 2.2030e-003 tblVehicleEF LDT2 0.27 0.19 <t< td=""><td>tblVehicleEF</td><td>LDT2</td><td>7.1800e-004</td><td>8.5300e-004</td></t<>	tblVehicleEF	LDT2	7.1800e-004	8.5300e-004
tbl/ehicleEF LDT2 0.09 0.06 tbl/ehicleEF LDT2 0.03 0.03 tbl/ehicleEF LDT2 0.07 0.08 tbl/ehicleEF LDT2 0.42 0.14 tbl/ehicleEF LDT2 5.5740e-003 8.0970e-003 tbl/ehicleEF LDT2 0.07 7.7590e-003 tbl/ehicleEF LDT2 1.28 1.07 tbl/ehicleEF LDT2 2.40 1.59 tbl/ehicleEF LDT2 371.37 409.70 tbl/ehicleEF LDT2 71.46 81.99 tbl/ehicleEF LDT2 0.09 0.08 tbl/ehicleEF LDT2 0.32 0.15 tbl/ehicleEF LDT2 1.6530e-003 1.8740e-003 tbl/ehicleEF LDT2 1.5950e-003 2.3960e-003 tbl/ehicleEF LDT2 1.5210e-003 1.7230e-003 tbl/ehicleEF LDT2 1.7970e-003 2.2030e-003 tbl/ehicleEF LDT2 0.27 0.19 <t< td=""><td>tblVehicleEF</td><td>LDT2</td><td>0.11</td><td>0.08</td></t<>	tblVehicleEF	LDT2	0.11	0.08
tbVehicleEF LDT2 0.03 0.03 tbVehicleEF LDT2 0.07 0.08 tbVehicleEF LDT2 0.42 0.14 tbVehicleEF LDT2 5.5740e-003 8.0970e-003 tbVehicleEF LDT2 0.07 7.7590e-003 tbVehicleEF LDT2 1.28 1.07 tbVehicleEF LDT2 2.40 1.59 tbVehicleEF LDT2 371.37 409.70 tbVehicleEF LDT2 71.46 81.99 tbVehicleEF LDT2 0.09 0.08 tbVehicleEF LDT2 0.32 0.15 tbVehicleEF LDT2 1.8530e-003 1.8740e-003 tbVehicleEF LDT2 1.9550e-003 2.3960e-003 tbVehicleEF LDT2 1.5210e-003 1.7230e-003 tbVehicleEF LDT2 1.7970e-003 2.2030e-003 tbVehicleEF LDT2 0.27 0.19 tbVehicleEF LDT2 0.20 0.19	tblVehicleEF	LDT2	0.17	0.16
tblVehicleEF LDT2 0.07 0.08 tblVehicleEF LDT2 0.42 0.14 tblVehicleEF LDT2 5.5740e-003 8.0970e-003 tblVehicleEF LDT2 0.07 7.7590e-003 tblVehicleEF LDT2 1.28 1.07 tblVehicleEF LDT2 2.40 1.59 tblVehicleEF LDT2 371.37 409.70 tblVehicleEF LDT2 71.46 81.99 tblVehicleEF LDT2 0.09 0.08 tblVehicleEF LDT2 0.32 0.15 tblVehicleEF LDT2 1.6530e-003 1.8740e-003 tblVehicleEF LDT2 1.550e-003 2.3960e-003 tblVehicleEF LDT2 1.7970e-003 2.2030e-003 tblVehicleEF LDT2 1.7970e-003 2.2030e-003 tblVehicleEF LDT2 0.27 0.19 tblVehicleEF LDT2 0.20 0.19 tblVehicleEF LDT2 0.19 0.13 <td>tblVehicleEF</td> <td>LDT2</td> <td>0.09</td> <td>0.06</td>	tblVehicleEF	LDT2	0.09	0.06
tbl/ehicleEF LDT2 0.42 0.14 tbl/ehicleEF LDT2 5.5740e-003 8.0970e-003 tbl/ehicleEF LDT2 0.07 7.7590e-003 tbl/ehicleEF LDT2 1.28 1.07 tbl/ehicleEF LDT2 2.40 1.59 tbl/ehicleEF LDT2 371.37 409.70 tbl/ehicleEF LDT2 71.46 81.99 tbl/ehicleEF LDT2 0.09 0.08 tbl/ehicleEF LDT2 0.32 0.15 tbl/ehicleEF LDT2 1.6530e-003 1.8740e-003 tbl/ehicleEF LDT2 1.9550e-003 2.3960e-003 tbl/ehicleEF LDT2 1.5210e-003 1.7230e-003 tbl/ehicleEF LDT2 1.7970e-003 2.2030e-003 tbl/ehicleEF LDT2 0.27 0.19 tbl/ehicleEF LDT2 0.20 0.19 tbl/ehicleEF LDT2 0.20 0.19	tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF LDT2 5.5740e-003 8.0970e-003 tblVehicleEF LDT2 0.07 7.7590e-003 tblVehicleEF LDT2 1.28 1.07 tblVehicleEF LDT2 2.40 1.59 tblVehicleEF LDT2 371.37 409.70 tblVehicleEF LDT2 71.46 81.99 tblVehicleEF LDT2 0.09 0.08 tblVehicleEF LDT2 0.32 0.15 tblVehicleEF LDT2 1.6530e-003 1.8740e-003 tblVehicleEF LDT2 1.9550e-003 2.3960e-003 tblVehicleEF LDT2 1.5210e-003 1.7230e-003 tblVehicleEF LDT2 1.7970e-003 2.2030e-003 tblVehicleEF LDT2 0.27 0.19 tblVehicleEF LDT2 0.20 0.19 tblVehicleEF LDT2 0.19 0.13	tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF LDT2 0.07 7.7590e-003 tblVehicleEF LDT2 1.28 1.07 tblVehicleEF LDT2 2.40 1.59 tblVehicleEF LDT2 371.37 409.70 tblVehicleEF LDT2 71.46 81.99 tblVehicleEF LDT2 0.09 0.08 tblVehicleEF LDT2 0.32 0.15 tblVehicleEF LDT2 1.6530e-003 1.8740e-003 tblVehicleEF LDT2 1.9550e-003 2.3960e-003 tblVehicleEF LDT2 1.5210e-003 1.7230e-003 tblVehicleEF LDT2 1.7970e-003 2.2030e-003 tblVehicleEF LDT2 0.27 0.19 tblVehicleEF LDT2 0.20 0.19 tblVehicleEF LDT2 0.20 0.19 tblVehicleEF LDT2 0.19 0.13	tblVehicleEF	LDT2	0.42	0.14
tblVehicleEF LDT2 1.28 1.07 tblVehicleEF LDT2 2.40 1.59 tblVehicleEF LDT2 371.37 409.70 tblVehicleEF LDT2 71.46 81.99 tblVehicleEF LDT2 0.09 0.08 tblVehicleEF LDT2 0.32 0.15 tblVehicleEF LDT2 1.6530e-003 1.8740e-003 tblVehicleEF LDT2 1.9550e-003 2.3960e-003 tblVehicleEF LDT2 1.5210e-003 1.7230e-003 tblVehicleEF LDT2 1.7970e-003 2.2030e-003 tblVehicleEF LDT2 0.27 0.19 tblVehicleEF LDT2 0.20 0.19 tblVehicleEF LDT2 0.19 0.13	tblVehicleEF	LDT2	5.5740e-003	8.0970e-003
tblVehicleEF LDT2 2.40 1.59 tblVehicleEF LDT2 371.37 409.70 tblVehicleEF LDT2 71.46 81.99 tblVehicleEF LDT2 0.09 0.08 tblVehicleEF LDT2 0.32 0.15 tblVehicleEF LDT2 1.6530e-003 1.8740e-003 tblVehicleEF LDT2 1.9550e-003 2.3960e-003 tblVehicleEF LDT2 1.5210e-003 1.7230e-003 tblVehicleEF LDT2 1.7970e-003 2.2030e-003 tblVehicleEF LDT2 0.27 0.19 tblVehicleEF LDT2 0.20 0.19 tblVehicleEF LDT2 0.19 0.13	tblVehicleEF	LDT2	0.07	7.7590e-003
tblVehicleEF LDT2 371.37 409.70 tblVehicleEF LDT2 71.46 81.99 tblVehicleEF LDT2 0.09 0.08 tblVehicleEF LDT2 0.32 0.15 tblVehicleEF LDT2 1.6530e-003 1.8740e-003 tblVehicleEF LDT2 1.9550e-003 2.3960e-003 tblVehicleEF LDT2 1.5210e-003 1.7230e-003 tblVehicleEF LDT2 1.7970e-003 2.2030e-003 tblVehicleEF LDT2 0.27 0.19 tblVehicleEF LDT2 0.20 0.19 tblVehicleEF LDT2 0.19 0.13	tblVehicleEF	LDT2	1.28	1.07
tblVehicleEF LDT2 71.46 81.99 tblVehicleEF LDT2 0.09 0.08 tblVehicleEF LDT2 0.32 0.15 tblVehicleEF LDT2 1.6530e-003 1.8740e-003 tblVehicleEF LDT2 1.9550e-003 2.3960e-003 tblVehicleEF LDT2 1.5210e-003 1.7230e-003 tblVehicleEF LDT2 1.7970e-003 2.2030e-003 tblVehicleEF LDT2 0.27 0.19 tblVehicleEF LDT2 0.20 0.19 tblVehicleEF LDT2 0.19 0.13	tblVehicleEF	LDT2	2.40	1.59
tblVehicleEF LDT2 0.09 0.08 tblVehicleEF LDT2 0.32 0.15 tblVehicleEF LDT2 1.6530e-003 1.8740e-003 tblVehicleEF LDT2 1.9550e-003 2.3960e-003 tblVehicleEF LDT2 1.5210e-003 1.7230e-003 tblVehicleEF LDT2 1.7970e-003 2.2030e-003 tblVehicleEF LDT2 0.27 0.19 tblVehicleEF LDT2 0.20 0.19 tblVehicleEF LDT2 0.19 0.13	tblVehicleEF	LDT2	371.37	409.70
tblVehicleEF LDT2 0.32 0.15 tblVehicleEF LDT2 1.6530e-003 1.8740e-003 tblVehicleEF LDT2 1.9550e-003 2.3960e-003 tblVehicleEF LDT2 1.5210e-003 1.7230e-003 tblVehicleEF LDT2 1.7970e-003 2.2030e-003 tblVehicleEF LDT2 0.27 0.19 tblVehicleEF LDT2 0.20 0.19 tblVehicleEF LDT2 0.19 0.13	tblVehicleEF	LDT2	71.46	81.99
tblVehicleEF LDT2 1.6530e-003 1.8740e-003 tblVehicleEF LDT2 1.9550e-003 2.3960e-003 tblVehicleEF LDT2 1.5210e-003 1.7230e-003 tblVehicleEF LDT2 1.7970e-003 2.2030e-003 tblVehicleEF LDT2 0.27 0.19 tblVehicleEF LDT2 0.20 0.19 tblVehicleEF LDT2 0.19 0.13	tblVehicleEF	LDT2	0.09	0.08
tblVehicleEF LDT2 1.9550e-003 2.3960e-003 tblVehicleEF LDT2 1.5210e-003 1.7230e-003 tblVehicleEF LDT2 1.7970e-003 2.2030e-003 tblVehicleEF LDT2 0.27 0.19 tblVehicleEF LDT2 0.20 0.19 tblVehicleEF LDT2 0.19 0.13	tblVehicleEF	LDT2	0.32	0.15
tblVehicleEF LDT2 1.5210e-003 1.7230e-003 tblVehicleEF LDT2 1.7970e-003 2.2030e-003 tblVehicleEF LDT2 0.27 0.19 tblVehicleEF LDT2 0.20 0.19 tblVehicleEF LDT2 0.19 0.13	tblVehicleEF	LDT2	1.6530e-003	1.8740e-003
tblVehicleEF LDT2 1.7970e-003 2.2030e-003 tblVehicleEF LDT2 0.27 0.19 tblVehicleEF LDT2 0.20 0.19 tblVehicleEF LDT2 0.19 0.13	tblVehicleEF	LDT2	1.9550e-003	2.3960e-003
tblVehicleEF LDT2 0.27 0.19 tblVehicleEF LDT2 0.20 0.19 tblVehicleEF LDT2 0.19 0.13	tblVehicleEF	LDT2	1.5210e-003	1.7230e-003
tblVehicleEF LDT2 0.20 0.19 tblVehicleEF LDT2 0.19 0.13	tblVehicleEF	LDT2	1.7970e-003	2.2030e-003
tblVehicleEF LDT2 0.19 0.13	tblVehicleEF	LDT2	0.27	0.19
ļi	tblVehicleEF	LDT2	0.20	0.19
tblVehicleEF LDT2 0.02 0.02	tblVehicleEF	LDT2	0.19	0.13
	tblVehicleEF	LDT2	0.02	0.02

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tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.32	0.10
tblVehicleEF	LDT2	3.6740e-003	4.1070e-003
tblVehicleEF	LDT2	7.0700e-004	8.4700e-004
tblVehicleEF	LDT2	0.27	0.19
tblVehicleEF	LDT2	0.20	0.19
tblVehicleEF	LDT2	0.19	0.13
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.35	0.11
tblVehicleEF	LDT2	4.5050e-003	6.6740e-003
tblVehicleEF	LDT2	0.09	0.01
tblVehicleEF	LDT2	0.97	0.81
tblVehicleEF	LDT2	3.57	2.35
tblVehicleEF	LDT2	335.27	361.00
tblVehicleEF	LDT2	73.76	81.99
tblVehicleEF	LDT2	0.11	0.10
tblVehicleEF	LDT2	0.38	0.18
tblVehicleEF	LDT2	1.6530e-003	1.8740e-003
tblVehicleEF	LDT2	1.9550e-003	2.3960e-003
tblVehicleEF	LDT2	1.5210e-003	1.7230e-003
tblVehicleEF	LDT2	1.7970e-003	2.2030e-003
tblVehicleEF	LDT2	0.04	0.03
tblVehicleEF	LDT2	0.17	0.16
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	0.45	0.15
tblVehicleEF	LDT2	3.3170e-003	3.6170e-003
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tblVehicleEF	LDT2	7.3000e-004	8.6000e-004
tblVehicleEF	LDT2	0.04	0.03
tblVehicleEF	LDT2	0.17	0.16
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	0.49	0.16
tblVehicleEF	LHD1	4.2110e-003	4.5240e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.16	0.13
tblVehicleEF	LHD1	1.09	1.38
tblVehicleEF	LHD1	0.88	2.26
tblVehicleEF	LHD1	9.70	9.59
tblVehicleEF	LHD1	771.32	687.17
tblVehicleEF	LHD1	9.30	25.83
tblVehicleEF	LHD1	0.10	0.11
tblVehicleEF	LHD1	1.81	2.70
tblVehicleEF	LHD1	0.28	0.87
tblVehicleEF	LHD1	1.1350e-003	1.1750e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.2000e-004	8.3600e-004
tblVehicleEF	LHD1	1.0860e-003	1.1250e-003
tblVehicleEF	LHD1	2.5590e-003	2.5990e-003
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.0200e-004	7.6900e-004
tblVehicleEF	LHD1	2.7090e-003	3.2480e-003
tblVehicleEF	LHD1	0.08	0.10

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tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1780e-003	1.4130e-003
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.21	0.29
tblVehicleEF	LHD1	0.07	0.24
tblVehicleEF	LHD1	9.3000e-005	9.5000e-005
tblVehicleEF	LHD1	7.4910e-003	6.7200e-003
tblVehicleEF	LHD1	9.2000e-005	3.0100e-004
tblVehicleEF	LHD1	2.7090e-003	3.2480e-003
tblVehicleEF	LHD1	0.08	0.10
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	1.1780e-003	1.4130e-003
tblVehicleEF	LHD1	0.17	0.21
tblVehicleEF	LHD1	0.21	0.29
tblVehicleEF	LHD1	0.08	0.26
tblVehicleEF	LHD1	4.2230e-003	4.5240e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.16	0.13
tblVehicleEF	LHD1	1.12	1.40
tblVehicleEF	LHD1	0.82	2.09
tblVehicleEF	LHD1	9.70	9.59
tblVehicleEF	LHD1	771.36	687.17
tblVehicleEF	LHD1	9.18	25.83
tblVehicleEF	LHD1	0.10	0.11
tblVehicleEF	LHD1	1.72	2.56
tblVehicleEF	LHD1	0.26	0.82
tblVehicleEF	LHD1	1.1350e-003	1.1750e-003
tblVehicleEF	LHD1	0.01	0.01

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tblVehicleEF tblVehicleEF	LHD1 LHD1	0.02 2.2000e-004 1.0860e-003 2.5590e-003 0.02 2.0200e-004 6.6950e-003 0.09 0.02 2.4840e-003 0.14 0.21 0.07 9.3000e-005	0.03 8.3600e-004 1.1250e-003 2.5990e-003 0.03 7.6900e-004 8.0020e-003 0.12 0.02 2.9640e-003 0.18 0.29 0.22
tblVehicleEF	LHD1 LHD1 LHD1 LHD1 LHD1 LHD1 LHD1 LHD1	1.0860e-003 2.5590e-003 0.02 2.0200e-004 6.6950e-003 0.09 0.02 2.4840e-003 0.14 0.21 0.07 9.3000e-005	1.1250e-003 2.5990e-003 0.03 7.6900e-004 8.0020e-003 0.12 0.02 2.9640e-003 0.18 0.29 0.22
tblVehicleEF	LHD1	2.5590e-003 0.02 2.0200e-004 6.6950e-003 0.09 0.02 2.4840e-003 0.14 0.21 0.07 9.3000e-005	2.5990e-003 0.03 7.6900e-004 8.0020e-003 0.12 0.02 2.9640e-003 0.18 0.29 0.22
tblVehicleEF	LHD1	0.02 2.0200e-004 6.6950e-003 0.09 0.02 2.4840e-003 0.14 0.21 0.07 9.3000e-005	0.03 7.6900e-004 8.0020e-003 0.12 0.02 2.9640e-003 0.18 0.29 0.22
tblVehicleEF	LHD1 LHD1 LHD1 LHD1 LHD1 LHD1 LHD1 LHD1	2.0200e-004 6.6950e-003 0.09 0.02 2.4840e-003 0.14 0.21 0.07 9.3000e-005	7.6900e-004 8.0020e-003 0.12 0.02 2.9640e-003 0.18 0.29 0.22
tblVehicleEF	LHD1 LHD1 LHD1 LHD1 LHD1 LHD1 LHD1 LHD1	6.6950e-003 0.09 0.02 2.4840e-003 0.14 0.21 0.07 9.3000e-005	8.0020e-003 0.12 0.02 2.9640e-003 0.18 0.29 0.22
tblVehicleEF	LHD1 LHD1 LHD1 LHD1 LHD1 LHD1 LHD1	0.09 0.02 2.4840e-003 0.14 0.21 0.07 9.3000e-005	0.12 0.02 2.9640e-003 0.18 0.29
tblVehicleEF	LHD1 LHD1 LHD1 LHD1 LHD1 LHD1	0.02 2.4840e-003 0.14 0.21 0.07 9.3000e-005	0.02 2.9640e-003 0.18 0.29 0.22
tblVehicleEF	LHD1 LHD1 LHD1 LHD1 LHD1	2.4840e-003 0.14 0.21 0.07 9.3000e-005	2.9640e-003 0.18 0.29 0.22
tblVehicleEF	LHD1 LHD1 LHD1 LHD1	0.14 0.21 0.07 9.3000e-005	0.18 0.29 0.22
tblVehicleEF	LHD1 LHD1 LHD1	0.21 0.07 9.3000e-005	0.29 0.22
tblVehicleEF	LHD1 LHD1	0.07 9.3000e-005	0.22
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	LHD1	9.3000e-005	
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF			.+
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	LHD1		9.5000e-005
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF		7.4910e-003	6.7210e-003
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	LHD1	9.1000e-005	2.9800e-004
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	LHD1	6.6950e-003	8.0020e-003
tblVehicleEF tblVehicleEF tblVehicleEF	LHD1	0.09	0.12
tblVehicleEF tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	2.4840e-003	2.9640e-003
	LHD1	0.17	0.21
tblVehicleEF	LHD1	0.21	0.29
	LHD1	0.07	0.24
tblVehicleEF	LHD1	4.1990e-003	4.5240e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	:	0.16	0.13
tblVehicleEF	LHD1		
tblVehicleEF		1.07	1.35

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tblVehicleEF	LHD1	9.70	9.59
tblVehicleEF	LHD1	771.28	687.17
tblVehicleEF	LHD1	9.43	25.83
tblVehicleEF	LHD1	0.10	0.11
tblVehicleEF	LHD1	1.85	2.76
tblVehicleEF	LHD1	0.30	0.93
tblVehicleEF	LHD1	1.1350e-003	1.1750e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.2000e-004	8.3600e-004
tblVehicleEF	LHD1	1.0860e-003	1.1250e-003
tblVehicleEF	LHD1	2.5590e-003	2.5990e-003
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.0200e-004	7.6900e-004
tblVehicleEF	LHD1	9.3300e-004	1.1290e-003
tblVehicleEF	LHD1	0.08	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	5.0200e-004	6.0800e-004
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.23	0.32
tblVehicleEF	LHD1	0.07	0.25
tblVehicleEF	LHD1	9.3000e-005	9.5000e-005
tblVehicleEF	LHD1	7.4910e-003	6.7200e-003
tblVehicleEF	LHD1	9.3000e-005	3.0500e-004
tblVehicleEF	LHD1	9.3300e-004	1.1290e-003
tblVehicleEF	LHD1	0.08	0.10
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	5.0200e-004	6.0800e-004
tblVehicleEF	LHD1	0.17	0.21

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BUVehiclaEFF				
tbVehicleEF LHD2 3.0330e-003 3.1590e-003 tbVehicleEF LHD2 8.2820e-003 0.01 tbVehicleEF LHD2 8.3090e-003 8.2730e-003 bVehicleEF LHD2 0.13 0.11 bVehicleEF LHD2 0.79 0.85 tbVehicleEF LHD2 0.55 1.15 tbVehicleEF LHD2 789.84 717.98 tbVehicleEF LHD2 7.04 20.80 tbVehicleEF LHD2 7.04 20.80 tbVehicleEF LHD2 1.63 1.93 tbVehicleEF LHD2 1.63 1.93 tbVehicleEF LHD2 0.18 0.49 tbVehicleEF LHD2 1.4840e-003 1.4130e-003 tbVehicleEF LHD2 0.01 0.01 tbVehicleEF LHD2 0.02 0.02 tbVehicleEF LHD2 1.1800e-004 3.8900e-004 tbVehicleEF LHD2 1.200e-003 1.3520e-003 tbVeh	tblVehicleEF	LHD1	0.23	0.32
tbl/ehicleEF LHD2 8.2820e-003 0.01 tbl/ehicleEF LHD2 8.3090e-003 8.2730e-003 tbl/ehicleEF LHD2 0.13 0.11 tbl/ehicleEF LHD2 0.79 0.85 tbl/ehicleEF LHD2 0.55 1.15 tbl/ehicleEF LHD2 15.00 14.91 tbl/ehicleEF LHD2 7.94 20.80 tbl/ehicleEF LHD2 7.04 20.80 tbl/ehicleEF LHD2 1.63 1.33 tbl/ehicleEF LHD2 1.63 1.93 tbl/ehicleEF LHD2 1.63 1.93 tbl/ehicleEF LHD2 0.18 0.49 tbl/ehicleEF LHD2 1.4840e-003 1.4130e-003 tbl/ehicleEF LHD2 0.01 0.01 tbl/ehicleEF LHD2 0.02 0.02 tbl/ehicleEF LHD2 1.1800e-004 3.9900e-004 tbl/ehicleEF LHD2 2.7150e-003 2.7270e-003 t	tblVehicleEF	LHD1	0.08	0.28
tbl/ehicleEF LHD2 8.3090e-003 8.2730e-003 tbl/ehicleEF LHD2 0.13 0.11 tbl/ehicleEF LHD2 0.79 0.85 tbl/ehicleEF LHD2 0.55 1.15 tbl/ehicleEF LHD2 15.00 14.91 tbl/ehicleEF LHD2 7.04 20.80 tbl/ehicleEF LHD2 7.04 20.80 tbl/ehicleEF LHD2 0.13 0.13 tbl/ehicleEF LHD2 1.63 1.93 tbl/ehicleEF LHD2 0.18 0.49 tbl/ehicleEF LHD2 1.4840e-003 1.4130e-003 tbl/ehicleEF LHD2 0.01 0.01 tbl/ehicleEF LHD2 0.02 0.02 tbl/ehicleEF LHD2 1.1800e-003 1.3520e-003 tbl/ehicleEF LHD2 1.4200e-003 1.3520e-003 tbl/ehicleEF LHD2 1.4200e-003 2.7270e-003 tbl/ehicleEF LHD2 0.02 0.02	tblVehicleEF	LHD2	3.0330e-003	3.1590e-003
tbiVehicleEF LHD2 0.13 0.11 tbiVehicleEF LHD2 0.79 0.85 tbiVehicleEF LHD2 0.55 1.15 tbiVehicleEF LHD2 15.00 14.91 tbiVehicleEF LHD2 789.84 717.98 tbIVehicleEF LHD2 7.04 20.80 tbIVehicleEF LHD2 0.13 0.13 tbIVehicleEF LHD2 1.63 1.93 tbIVehicleEF LHD2 0.18 0.49 tbIVehicleEF LHD2 1.4840e-003 1.4130e-003 tbIVehicleEF LHD2 0.01 0.01 tbIVehicleEF LHD2 0.02 0.02 tbIVehicleEF LHD2 1.800e-004 3.9900e-004 tbIVehicleEF LHD2 1.4200e-003 1.3520e-003 tbIVehicleEF LHD2 1.020e-003 2.7270e-003 tbIVehicleEF LHD2 1.0800e-004 3.6700e-004 tbIVehicleEF LHD2 0.02 0.02	tblVehicleEF	LHD2	8.2820e-003	0.01
tbl/VehicleEF LHD2 0.79 0.85 tbl/VehicleEF LHD2 0.55 1.15 tbl/VehicleEF LHD2 15.00 14.91 tbl/VehicleEF LHD2 789.84 717.98 tbl/VehicleEF LHD2 7.04 20.80 tbl/VehicleEF LHD2 0.13 0.13 tbl/VehicleEF LHD2 1.63 1.93 tbl/VehicleEF LHD2 0.18 0.49 tbl/VehicleEF LHD2 1.4840e-003 1.4130e-003 tbl/VehicleEF LHD2 0.01 0.01 tbl/VehicleEF LHD2 0.02 0.02 tbl/VehicleEF LHD2 1.1800e-004 3.9900e-004 tbl/VehicleEF LHD2 1.4200e-003 1.3520e-003 tbl/VehicleEF LHD2 2.7750e-003 2.7270e-003 tbl/VehicleEF LHD2 1.0800e-004 3.6700e-004 tbl/VehicleEF LHD2 0.04 0.04 tbl/VehicleEF LHD2 0.02 0.02 <	tblVehicleEF	LHD2	8.3090e-003	8.2730e-003
tbiVehicleEF LHD2 0.55 1.15 tbiVehicleEF LHD2 15.00 14.91 tbiVehicleEF LHD2 789.84 717.98 tbiVehicleEF LHD2 7.04 20.80 tbiVehicleEF LHD2 0.13 0.13 tbiVehicleEF LHD2 1.63 1.93 tbiVehicleEF LHD2 0.18 0.49 tbiVehicleEF LHD2 1.4840e-003 1.4130e-003 tbiVehicleEF LHD2 0.01 0.01 tbiVehicleEF LHD2 0.02 0.02 tbiVehicleEF LHD2 1.1800e-003 1.3520e-003 tbiVehicleEF LHD2 1.4200e-003 1.3520e-003 tbiVehicleEF LHD2 2.7150e-003 2.7270e-003 tbiVehicleEF LHD2 0.02 0.02 tbiVehicleEF LHD2 1.0800e-004 3.6700e-004 tbiVehicleEF LHD2 0.04 0.04 tbiVehicleEF LHD2 5.9900e-004 6.1500e-004 <td>tblVehicleEF</td> <td>LHD2</td> <td>0.13</td> <td>0.11</td>	tblVehicleEF	LHD2	0.13	0.11
tbl/ehicleEF LHD2 15.00 14.91 tbl/ehicleEF LHD2 789.84 717.98 tbl/ehicleEF LHD2 7.04 20.80 tbl/ehicleEF LHD2 0.13 0.13 tbl/ehicleEF LHD2 1.83 1.93 tbl/ehicleEF LHD2 0.18 0.49 tbl/ehicleEF LHD2 1.4840e-003 1.4130e-003 tbl/ehicleEF LHD2 0.01 0.01 tbl/ehicleEF LHD2 0.02 0.02 tbl/ehicleEF LHD2 1.1800e-004 3.9900e-004 tbl/ehicleEF LHD2 1.4200e-003 1.3520e-003 tbl/ehicleEF LHD2 2.7150e-003 2.7270e-003 tbl/ehicleEF LHD2 0.02 0.02 tbl/ehicleEF LHD2 1.0800e-004 3.6700e-004 tbl/ehicleEF LHD2 0.04 0.04 tbl/ehicleEF LHD2 5.9900e-004 6.1500e-004 tbl/ehicleEF LHD2 0.14 0.14 <td>tblVehicleEF</td> <td>LHD2</td> <td>0.79</td> <td>0.85</td>	tblVehicleEF	LHD2	0.79	0.85
tblVehicleEF LHD2 789.84 717.98 tblVehicleEF LHD2 7.04 20.80 tblVehicleEF LHD2 0.13 0.13 tblVehicleEF LHD2 1.63 1.93 tblVehicleEF LHD2 0.18 0.49 tblVehicleEF LHD2 1.4840e-003 1.4130e-003 tblVehicleEF LHD2 0.01 0.01 tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.4800e-004 3.9900e-004 tblVehicleEF LHD2 1.4200e-003 1.3520e-003 tblVehicleEF LHD2 2.7150e-003 2.7270e-003 tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.0800e-004 3.6700e-004 tblVehicleEF LHD2 0.04 0.04 tblVehicleEF LHD2 5.9900e-004 6.1500e-004 tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.10 0.08	tblVehicleEF	LHD2	0.55	1.15
tblVehicleEF LHD2 7.04 20.80 tblVehicleEF LHD2 0.13 0.13 tblVehicleEF LHD2 1.63 1.93 tblVehicleEF LHD2 0.18 0.49 tblVehicleEF LHD2 1.4840e-003 1.4130e-003 tblVehicleEF LHD2 0.01 0.01 tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.1800e-004 3.9900e-004 tblVehicleEF LHD2 1.4200e-003 1.3520e-003 tblVehicleEF LHD2 2.7150e-003 2.7270e-003 tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.0800e-004 3.6700e-004 tblVehicleEF LHD2 0.04 0.04 tblVehicleEF LHD2 5.9900e-004 6.1500e-004 tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.01 0.08	tblVehicleEF	LHD2	15.00	14.91
tblVehicleEF LHD2 0.13 0.13 tblVehicleEF LHD2 1.63 1.93 tblVehicleEF LHD2 0.18 0.49 tblVehicleEF LHD2 1.4840e-003 1.4130e-003 tblVehicleEF LHD2 0.01 0.01 tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.1800e-004 3.9900e-004 tblVehicleEF LHD2 1.4200e-003 1.3520e-003 tblVehicleEF LHD2 2.7150e-003 2.7270e-003 tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.0800e-004 3.6700e-004 tblVehicleEF LHD2 0.04 0.04 tblVehicleEF LHD2 0.02 0.01 tblVehicleEF LHD2 5.9900e-004 6.1500e-004 tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.10 0.08 tblVehicleEF LHD2 0.10 0.08 <	tblVehicleEF	LHD2	789.84	717.98
tblVehicleEF LHD2 1.63 1.93 tblVehicleEF LHD2 0.18 0.49 tblVehicleEF LHD2 1.4840e-003 1.4130e-003 tblVehicleEF LHD2 0.01 0.01 tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.1800e-004 3.9900e-004 tblVehicleEF LHD2 1.4200e-003 1.3520e-003 tblVehicleEF LHD2 2.7150e-003 2.7270e-003 tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.0800e-004 3.6700e-004 tblVehicleEF LHD2 0.04 0.04 tblVehicleEF LHD2 0.02 0.01 tblVehicleEF LHD2 5.9900e-004 6.1500e-004 tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.10 0.08 tblVehicleEF LHD2 0.04 0.11	tblVehicleEF	LHD2	7.04	20.80
tbl/ehicleEF LHD2 0.18 0.49 tbl/ehicleEF LHD2 1.4840e-003 1.4130e-003 tbl/ehicleEF LHD2 0.01 0.01 tbl/ehicleEF LHD2 0.02 0.02 tbl/ehicleEF LHD2 1.1800e-004 3.9900e-004 tbl/ehicleEF LHD2 1.4200e-003 1.3520e-003 tbl/ehicleEF LHD2 2.7150e-003 2.7270e-003 tbl/ehicleEF LHD2 0.02 0.02 tbl/ehicleEF LHD2 1.0800e-004 3.6700e-004 tbl/ehicleEF LHD2 0.04 0.04 tbl/ehicleEF LHD2 0.02 0.01 tbl/ehicleEF LHD2 5.9900e-004 6.1500e-004 tbl/ehicleEF LHD2 0.14 0.14 tbl/ehicleEF LHD2 0.14 0.14 tbl/ehicleEF LHD2 0.04 0.14 tbl/ehicleEF LHD2 0.04 0.11	tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF LHD2 1.4840e-003 1.4130e-003 tblVehicleEF LHD2 0.01 0.01 tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.1800e-004 3.9900e-004 tblVehicleEF LHD2 1.4200e-003 1.3520e-003 tblVehicleEF LHD2 2.7150e-003 2.7270e-003 tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.0800e-004 3.6700e-004 tblVehicleEF LHD2 0.04 0.04 tblVehicleEF LHD2 0.02 0.01 tblVehicleEF LHD2 5.9900e-004 6.1500e-004 tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.10 0.08 tblVehicleEF LHD2 0.04 0.11	tblVehicleEF	LHD2	1.63	1.93
tblVehicleEF LHD2 0.01 0.01 tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.1800e-004 3.9900e-004 tblVehicleEF LHD2 1.4200e-003 1.3520e-003 tblVehicleEF LHD2 2.7150e-003 2.7270e-003 tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.0800e-004 3.6700e-004 tblVehicleEF LHD2 0.04 0.04 tblVehicleEF LHD2 0.02 0.01 tblVehicleEF LHD2 5.9900e-004 6.1500e-004 tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.10 0.08 tblVehicleEF LHD2 0.04 0.11	tblVehicleEF	LHD2	0.18	0.49
tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.1800e-004 3.9900e-004 tblVehicleEF LHD2 1.4200e-003 1.3520e-003 tblVehicleEF LHD2 2.7150e-003 2.7270e-003 tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.0800e-004 3.6700e-004 tblVehicleEF LHD2 0.04 0.04 tblVehicleEF LHD2 0.02 0.01 tblVehicleEF LHD2 5.9900e-004 6.1500e-004 tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.10 0.08 tblVehicleEF LHD2 0.00 0.01	tblVehicleEF	LHD2	1.4840e-003	1.4130e-003
tblVehicleEF LHD2 1.1800e-004 3.9900e-004 tblVehicleEF LHD2 1.4200e-003 1.3520e-003 tblVehicleEF LHD2 2.7150e-003 2.7270e-003 tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.0800e-004 3.6700e-004 tblVehicleEF LHD2 0.04 0.04 tblVehicleEF LHD2 0.02 0.01 tblVehicleEF LHD2 5.9900e-004 6.1500e-004 tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.10 0.08 tblVehicleEF LHD2 0.04 0.11	tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF LHD2 1.4200e-003 1.3520e-003 tblVehicleEF LHD2 2.7150e-003 2.7270e-003 tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.0800e-004 3.6700e-004 tblVehicleEF LHD2 0.04 0.04 tblVehicleEF LHD2 0.02 0.01 tblVehicleEF LHD2 5.9900e-004 6.1500e-004 tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.10 0.08 tblVehicleEF LHD2 0.04 0.11	tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF LHD2 2.7150e-003 2.7270e-003 tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.0800e-004 3.6700e-004 tblVehicleEF LHD2 0.04 0.04 tblVehicleEF LHD2 0.02 0.01 tblVehicleEF LHD2 5.9900e-004 6.1500e-004 tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.10 0.08 tblVehicleEF LHD2 0.04 0.11	tblVehicleEF	LHD2	1.1800e-004	3.9900e-004
tblVehicleEF LHD2 0.02 0.02 tblVehicleEF LHD2 1.0800e-004 3.6700e-004 tblVehicleEF LHD2 0.04 0.04 tblVehicleEF LHD2 0.02 0.01 tblVehicleEF LHD2 5.9900e-004 6.1500e-004 tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.10 0.08 tblVehicleEF LHD2 0.04 0.11	tblVehicleEF	LHD2	1.4200e-003	1.3520e-003
tblVehicleEF LHD2 1.0800e-004 3.6700e-004 tblVehicleEF LHD2 0.04 0.04 tblVehicleEF LHD2 0.02 0.01 tblVehicleEF LHD2 5.9900e-004 6.1500e-004 tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.10 0.08 tblVehicleEF LHD2 0.04 0.11	tblVehicleEF	LHD2	2.7150e-003	2.7270e-003
tblVehicleEF LHD2 0.04 0.04 tblVehicleEF LHD2 0.02 0.01 tblVehicleEF LHD2 5.9900e-004 6.1500e-004 tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.10 0.08 tblVehicleEF LHD2 0.04 0.11	tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF LHD2 0.02 0.01 tblVehicleEF LHD2 5.9900e-004 6.1500e-004 tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.10 0.08 tblVehicleEF LHD2 0.04 0.11	tblVehicleEF	LHD2	1.0800e-004	3.6700e-004
tblVehicleEF LHD2 5.9900e-004 6.1500e-004 tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.10 0.08 tblVehicleEF LHD2 0.04 0.11	tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF LHD2 0.14 0.14 tblVehicleEF LHD2 0.10 0.08 tblVehicleEF LHD2 0.04 0.11	tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF LHD2 0.10 0.08 tblVehicleEF LHD2 0.04 0.11	tblVehicleEF	LHD2	5.9900e-004	6.1500e-004
tblVehicleEF LHD2 0.04 0.11	tblVehicleEF	LHD2	0.14	0.14
ļ	tblVehicleEF	LHD2	0.10	0.08
UDA 44000 004	tblVehicleEF	LHD2	0.04	0.11
tolvenicieEF LHD2 1.4300e-004 1.4500e-004	tblVehicleEF	LHD2	1.4300e-004	1.4500e-004

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tblVehicleEF			
(DIVEINCIEL)	LHD2	7.6140e-003	6.9690e-003
tblVehicleEF	LHD2	7.0000e-005	2.2900e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.9900e-004	6.1500e-004
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.10	0.08
tblVehicleEF	LHD2	0.05	0.12
tblVehicleEF	LHD2	3.0410e-003	3.1590e-003
tblVehicleEF	LHD2	8.3620e-003	0.01
tblVehicleEF	LHD2	7.8600e-003	7.8120e-003
tblVehicleEF	LHD2	0.13	0.11
tblVehicleEF	LHD2	0.80	0.85
tblVehicleEF	LHD2	0.51	1.07
tblVehicleEF	LHD2	15.00	14.91
tblVehicleEF	LHD2	789.86	717.98
tblVehicleEF	LHD2	6.97	20.80
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.55	1.83
tblVehicleEF	LHD2	0.17	0.46
tblVehicleEF	LHD2	1.4840e-003	1.4130e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1800e-004	3.9900e-004
tblVehicleEF	LHD2	1.4200e-003	1.3520e-003
tblVehicleEF	LHD2	2.7150e-003	2.7270e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0800e-004	3.6700e-004
tblVehicleEF	LHD2	3.2520e-003	3.2430e-003

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tblVehicleEF tblVehicleEF	LHD2 LHD2 LHD2 LHD2 LHD2 LHD2 LHD2	0.05 0.02 1.2510e-003 0.14	0.05 0.01 1.2750e-003
tblVehicleEF	LHD2 LHD2 LHD2	1.2510e-003 0.14	1.2750e-003
tblVehicleEF	LHD2 LHD2	0.14	
tblVehicleEF	LHD2		· -
tblVehicleEF		0.40	0.14
tblVehicleEF	I HD2	0.10	0.08
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	LIIDZ	0.04	0.11
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	LHD2	1.4300e-004	1.4500e-004
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	LHD2	7.6140e-003	6.9690e-003
tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF	LHD2	6.9000e-005	2.2800e-004
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	LHD2	3.2520e-003	3.2430e-003
tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF	LHD2	0.05	0.05
tblVehicleEF tblVehicleEF tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF tblVehicleEF	LHD2	1.2510e-003	1.2750e-003
tblVehicleEF	LHD2	0.16	0.17
ļi	LHD2	0.10	0.08
tblVehicleEF	LHD2	0.04	0.12
1	LHD2	3.0240e-003	3.1590e-003
tblVehicleEF	LHD2	8.2020e-003	0.01
tblVehicleEF	LHD2	8.7730e-003	8.7560e-003
tblVehicleEF	LHD2	0.13	0.11
tblVehicleEF	LHD2	0.79	0.84
tblVehicleEF	LHD2	0.59	1.25
tblVehicleEF	LHD2	15.00	14.91
tblVehicleEF	LHD2	789.83	717.98
tblVehicleEF	LHD2	7.12	20.80
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	1.66	1.96
tblVehicleEF	_· ·- =		
tblVehicleEF	LHD2	0.19	0.52

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tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.1800e-004	3.9900e-004
tblVehicleEF	LHD2	1.4200e-003	1.3520e-003
tblVehicleEF	LHD2	2.7150e-003	2.7270e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0800e-004	3.6700e-004
tblVehicleEF	LHD2	4.6800e-004	4.7300e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.01
tblVehicleEF	LHD2	2.6000e-004	2.6900e-004
tblVehicleEF	LHD2	0.13	0.14
tblVehicleEF	LHD2	0.11	0.09
tblVehicleEF	LHD2	0.04	0.12
tblVehicleEF	LHD2	1.4300e-004	1.4500e-004
tblVehicleEF	LHD2	7.6140e-003	6.9690e-003
tblVehicleEF	LHD2	7.0000e-005	2.3100e-004
tblVehicleEF	LHD2	4.6800e-004	4.7300e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.6000e-004	2.6900e-004
tblVehicleEF	LHD2	0.16	0.17
tblVehicleEF	LHD2	0.11	0.09
tblVehicleEF	LHD2	0.05	0.13
tblVehicleEF	MCY	0.36	0.46
tblVehicleEF	MCY	0.26	0.17
tblVehicleEF	MCY	21.88	22.30
tblVehicleEF	MCY	8.87	10.02
tblVehicleEF	MCY	216.43	173.94

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tblVehicleEF			
	MCY	63.05	48.38
tblVehicleEF	MCY	1.18	1.18
tblVehicleEF	MCY	0.27	0.32
tblVehicleEF	MCY	2.0200e-003	2.0280e-003
tblVehicleEF	MCY	3.1820e-003	3.9060e-003
tblVehicleEF	MCY	1.8940e-003	1.9030e-003
tblVehicleEF	MCY	3.0050e-003	3.6950e-003
tblVehicleEF	MCY	1.51	1.57
tblVehicleEF	MCY	0.98	1.05
tblVehicleEF	MCY	0.79	0.82
tblVehicleEF	MCY	2.52	2.55
tblVehicleEF	MCY	0.71	0.77
tblVehicleEF	MCY	1.98	2.27
tblVehicleEF	MCY	2.1420e-003	2.1770e-003
tblVehicleEF	MCY	6.2400e-004	7.1500e-004
tblVehicleEF	MCY	1.51	1.57
tblVehicleEF	MCY	0.98	1.05
tblVehicleEF	MCY	0.79	0.82
tblVehicleEF	MCY	3.07	3.09
tblVehicleEF	MCY	0.71	0.77
tblVehicleEF	MCY	2.15	2.47
tblVehicleEF	MCY	0.35	0.44
tblVehicleEF	MCY	0.22	0.14
tblVehicleEF	MCY	21.99	22.41
tblVehicleEF	MCY	8.00	9.11
tblVehicleEF	MCY	216.33	173.94
tblVehicleEF	MCY	60.60	48.38
tblVehicleEF	MCY	1.02	1.02
tblVehicleEF	MCY	0.25	0.29

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tblVehicleEF	MCY	2.0200e-003	2.0280e-003
tblVehicleEF	MCY	3.1820e-003	3.9060e-003
tblVehicleEF	MCY	1.8940e-003	1.9030e-003
tblVehicleEF	MCY	3.0050e-003	3.6950e-003
tblVehicleEF	MCY	3.96	4.11
tblVehicleEF	MCY	1.49	1.57
tblVehicleEF	MCY	2.06	2.14
tblVehicleEF	MCY	2.44	2.47
tblVehicleEF	MCY	0.69	0.75
tblVehicleEF	MCY	1.66	1.91
tblVehicleEF	MCY	2.1410e-003	2.1760e-003
tblVehicleEF	MCY	6.0000e-004	6.8800e-004
tblVehicleEF	MCY	3.96	4.11
tblVehicleEF	MCY	1.49	1.57
tblVehicleEF	MCY	2.06	2.14
tblVehicleEF	MCY	2.98	3.00
tblVehicleEF	MCY	0.69	0.75
tblVehicleEF	MCY	1.80	2.07
tblVehicleEF	MCY	0.38	0.48
tblVehicleEF	MCY	0.30	0.20
tblVehicleEF	MCY	23.60	24.08
tblVehicleEF	MCY	10.26	11.52
tblVehicleEF	MCY	219.61	173.94
tblVehicleEF	MCY	66.57	48.38
tblVehicleEF	MCY	1.28	1.28
tblVehicleEF	MCY	0.29	0.34
tblVehicleEF	MCY	2.0200e-003	2.0280e-003
tblVehicleEF	MCY	3.1820e-003	3.9060e-003
tblVehicleEF	MCY	1.8940e-003	1.9030e-003

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tblVehicleEF	MCY	3.0050e-003	3.6950e-003
tblVehicleEF	MCY	0.42	0.44
tblVehicleEF	MCY	1.03	1.11
tblVehicleEF	MCY	0.23	0.24
tblVehicleEF	MCY	2.65	2.68
tblVehicleEF	MCY	0.83	0.90
tblVehicleEF	MCY	2.38	2.71
tblVehicleEF	MCY	2.1730e-003	2.2100e-003
tblVehicleEF	MCY	6.5900e-004	7.5300e-004
tblVehicleEF	MCY	0.42	0.44
tblVehicleEF	MCY	1.03	1.11
tblVehicleEF	MCY	0.23	0.24
tblVehicleEF	MCY	3.23	3.25
tblVehicleEF	MCY	0.83	0.90
tblVehicleEF	MCY	2.58	2.95
tblVehicleEF	MDV	5.8200e-003	0.01
tblVehicleEF	MDV	0.10	0.02
tblVehicleEF	MDV	1.14	1.51
tblVehicleEF	MDV	3.57	3.90
tblVehicleEF	MDV	429.69	523.07
tblVehicleEF	MDV	90.59	113.05
tblVehicleEF	MDV	0.12	0.19
tblVehicleEF	MDV	0.44	0.37
tblVehicleEF	MDV	1.7060e-003	1.9110e-003
tblVehicleEF	MDV	2.0280e-003	2.5040e-003
tblVehicleEF	MDV	1.5740e-003	1.7620e-003
tblVehicleEF	MDV	1.8650e-003	2.3030e-003
tblVehicleEF	MDV	0.13	0.12
tblVehicleEF	MDV	0.20	0.25

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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tblVehicleEF tblVehicleEF	MDV	0.11 0.03 0.09 0.51 4.2480e-003 8.9600e-004 0.13 0.20 0.11 0.04 0.09 0.56	0.09 0.04 0.14 0.31 5.2430e-003 1.2000e-003 0.12 0.25 0.09 0.05 0.14
tblVehicleEF	MDV	0.09 0.51 4.2480e-003 8.9600e-004 0.13 0.20 0.11 0.04 0.09	0.14 0.31 5.2430e-003 1.2000e-003 0.12 0.25 0.09 0.05 0.14
tblVehicleEF	MDV	0.51 4.2480e-003 8.9600e-004 0.13 0.20 0.11 0.04 0.09	0.31 5.2430e-003 1.2000e-003 0.12 0.25 0.09 0.05 0.14
tblVehicleEF	MDV	4.2480e-003 8.9600e-004 0.13 0.20 0.11 0.04 0.09	5.2430e-003 1.2000e-003 0.12 0.25 0.09 0.05
tblVehicleEF	MDV MDV MDV MDV MDV MDV MDV MDV	8.9600e-004 0.13 0.20 0.11 0.04 0.09	0.12 0.25 0.09 0.05
tblVehicleEF	MDV MDV MDV MDV MDV MDV	0.13 0.20 0.11 0.04 0.09	0.12 0.25 0.09 0.05 0.14
tblVehicleEF	MDV MDV MDV MDV MDV	0.20 0.11 0.04 0.09	0.25 0.09 0.05 0.14
tblVehicleEF	MDV MDV MDV MDV	0.11 0.04 0.09	0.09 0.05 0.14
tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF	MDV MDV MDV	0.04 0.09	0.05 0.14
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	MDV MDV	0.09	0.14
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	MDV	<u></u>	
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF		0.56	
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	MDV	_	0.34
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF		6.7430e-003	0.02
tblVehicleEF tblVehicleEF tblVehicleEF	MDV	0.08	0.02
tblVehicleEF tblVehicleEF	MDV	1.40	1.86
tblVehicleEF	MDV	2.91	3.19
	MDV	458.12	572.32
tblVehicleEF	MDV	89.25	113.05
1	MDV	0.11	0.17
tblVehicleEF	MDV	0.40	0.34
tblVehicleEF	MDV	1.7060e-003	1.9110e-003
tblVehicleEF	MDV	2.0280e-003	2.5040e-003
tblVehicleEF	MDV	1.5740e-003	1.7620e-003
tblVehicleEF	MDV	1.8650e-003	2.3030e-003
tblVehicleEF	MDV	0.32	0.28
tblVehicleEF	MDV	0.23	0.29
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF		0.08	0.14

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tblVehicleEF	MDV	0.42	0.25
tblVehicleEF	MDV	4.5300e-003	5.7410e-003
tblVehicleEF	MDV	8.8300e-004	1.1870e-003
tblVehicleEF	MDV	0.32	0.28
tblVehicleEF	MDV	0.23	0.29
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.04	0.06
tblVehicleEF	MDV	0.08	0.14
tblVehicleEF	MDV	0.46	0.28
tblVehicleEF	MDV	5.4370e-003	0.01
tblVehicleEF	MDV	0.11	0.03
tblVehicleEF	MDV	1.07	1.41
tblVehicleEF	MDV	4.35	4.73
tblVehicleEF	MDV	419.85	505.97
tblVehicleEF	MDV	92.12	113.05
tblVehicleEF	MDV	0.13	0.21
tblVehicleEF	MDV	0.48	0.40
tblVehicleEF	MDV	1.7060e-003	1.9110e-003
tblVehicleEF	MDV	2.0280e-003	2.5040e-003
tblVehicleEF	MDV	1.5740e-003	1.7620e-003
tblVehicleEF	MDV	1.8650e-003	2.3030e-003
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.20	0.25
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.10	0.17
tblVehicleEF	MDV	0.59	0.36
tblVehicleEF	MDV	4.1510e-003	5.0710e-003
tblVehicleEF	MDV	9.1200e-004	1.2150e-003

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tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.20	0.25
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.03	0.05
tblVehicleEF	MDV	0.10	0.17
tblVehicleEF	MDV	0.65	0.39
tblVehicleEF	MH	0.02	0.05
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.84	3.74
tblVehicleEF	MH	2.30	7.23
tblVehicleEF	MH	1,586.30	1,236.08
tblVehicleEF	MH	18.80	58.92
tblVehicleEF	MH	2.15	2.06
tblVehicleEF	MH	0.23	1.02
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.8800e-004	1.3450e-003
tblVehicleEF	MH	3.2980e-003	3.2330e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.6500e-004	1.2370e-003
tblVehicleEF	MH	1.32	1.71
tblVehicleEF	MH	0.08	0.11
tblVehicleEF	MH	0.37	0.48
tblVehicleEF	MH	0.11	0.16
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.10	0.41
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	1.8600e-004	7.1500e-004
tblVehicleEF	MH	1.32	1.71

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tblVehicleEF	МН	0.08	0.11
tblVehicleEF	MH	0.37	0.48
tblVehicleEF	MH	0.15	0.22
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.11	0.45
tblVehicleEF	MH	0.02	0.05
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	1.91	3.90
tblVehicleEF	MH	2.08	6.49
tblVehicleEF	MH	1,586.42	1,236.08
tblVehicleEF	MH	18.43	58.92
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tblVehicleEF	MH	0.22	0.95
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.8800e-004	1.3450e-003
tblVehicleEF	MH	3.2980e-003	3.2330e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.6500e-004	1.2370e-003
tblVehicleEF	MH	3.32	4.30
tblVehicleEF	MH	0.10	0.13
tblVehicleEF	MH	0.75	0.97
tblVehicleEF	MH	0.11	0.17
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.10	0.38
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	1.8200e-004	7.0300e-004
tblVehicleEF	MH	3.32	4.30
tblVehicleEF	MH	0.10	0.13
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tbVehicleEF MH 0.75 0.97 tbVehicleEF MH 0.15 0.23 tbVehicleEF MH 0.02 0.03 tbVehicleEF MH 0.02 0.05 tbVehicleEF MH 0.03 0.03 tbVehicleEF MH 1.78 3.59 tbVehicleEF MH 1.586.19 1,236.08 tbVehicleEF MH 19.19 58.92 tbVehicleEF MH 19.19 58.92 tbVehicleEF MH 0.25 1.09 tbVehicleEF MH 0.02 0.01 tbVehicleEF MH 0.04 0.04 tbVehicleEF MH 0.09 0.13				
tbVehideEF MH 0.02 0.03 tbVehideEF MH 0.11 0.42 tbVehideEF MH 0.02 0.05 tbVehideEF MH 0.03 0.03 tbVehideEF MH 1.78 3.59 tbVehideEF MH 1.586.19 1.236.08 tbVehideEF MH 19.19 58.92 tbVehideEF MH 19.19 58.92 tbVehideEF MH 0.25 1.09 tbVehideEF MH 0.01 0.01 tbVehideEF MH 0.04 0.04 tbVehideEF MH 2.880e-004 1.3450e-003 tbVehideEF MH 3.2860e-003 3.230e-003 tbVehideEF MH 0.04 0.04 tbVehideEF MH 0.04 0.04 tbVehideEF MH 0.05 0.13 tbVehideEF MH 0.09 0.13 tbVehideEF MH 0.11 0.15	tblVehicleEF	МН	0.75	0.97
tblVehideEF MH 0.11 0.42 tblVehideEF MH 0.02 0.05 tblVehideEF MH 0.03 0.03 tblVehideEF MH 1.78 3.59 tblVehideEF MH 2.53 8.04 tblVehideEF MH 1.966.19 1.236.08 tblVehideEF MH 19.19 58.92 tblVehideEF MH 2.21 2.14 tblVehideEF MH 0.25 1.09 tblVehideEF MH 0.01 0.01 tblVehideEF MH 0.04 0.04 tblVehideEF MH 2.8800e-004 1.3450e-003 tblVehideEF MH 3.2980e-003 3.2330e-003 tblVehideEF MH 0.04 0.04 tblVehideEF MH 0.04 0.04 tblVehideEF MH 0.05 0.57 tblVehideEF MH 0.18 0.23 tblVehideEF MH 0.11 0.15	tblVehicleEF	MH	0.15	0.23
tbl/ehicleEF MH 0.02 0.05 tbl/ehicleEF MH 0.03 0.03 tbl/ehicleEF MH 1.78 3.59 tbl/ehicleEF MH 2.53 8.04 tbl/ehicleEF MH 1,586.19 1,236.08 tbl/ehicleEF MH 19.19 58.92 tbl/ehicleEF MH 0.25 1.09 tbl/ehicleEF MH 0.01 0.01 tbl/ehicleEF MH 0.01 0.01 tbl/ehicleEF MH 2.8800e-004 1.3450e-003 tbl/ehicleEF MH 3.2880e-003 3.2330e-003 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 0.05 0.37 tbl/ehicleEF MH 0.05 0.37 tbl/ehicleEF MH 0.18 0.23 tbl/ehicleEF MH 0.11 0.44 tbl/ehicleEF MH 0.11	tblVehicleEF	MH	0.02	0.03
tbl/ehcleEF MH 0.03 0.03 tbl/ehcleEF MH 1.78 3.59 tbl/ehcleEF MH 2.53 8.04 tbl/ehcleEF MH 1.586.19 1.236.08 tbl/ehcleEF MH 19.19 58.92 tbl/ehcleEF MH 0.25 1.09 tbl/ehcleEF MH 0.01 0.01 tbl/ehcleEF MH 0.04 0.04 tbl/ehcleEF MH 0.04 0.04 tbl/ehcleEF MH 2.8800e-004 1.3450e-003 tbl/ehcleEF MH 3.2880e-003 3.2330e-003 tbl/ehcleEF MH 0.04 0.04 tbl/ehcleEF MH 0.09 0.13 tbl/ehcleEF MH 0.45 0.57 tbl/ehcleEF MH 0.11 0.15 tbl/ehcleEF MH 0.11 0.15 tbl/ehcleEF MH 0.11 0.44 tbl/ehcleEF MH 0.01 0.03	tblVehicleEF	MH	0.11	0.42
tbl/ehicleEF MH 1.78 3.59 tbl/ehicleEF MH 2.53 8.04 tbl/ehicleEF MH 1.586.19 1.236.08 tbl/ehicleEF MH 19.19 58.92 tbl/ehicleEF MH 0.25 1.09 tbl/ehicleEF MH 0.25 1.09 tbl/ehicleEF MH 0.01 0.01 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 2.8800e-004 1.3450e-003 tbl/ehicleEF MH 3.2980e-003 3.2330e-003 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 0.45 0.57 tbl/ehicleEF MH 0.11 0.15 tbl/ehicleEF MH 0.11 0.44 tbl/ehicleEF MH 0.03	tblVehicleEF	MH	0.02	0.05
tbl/ehicleEF MH 2.53 8.04 tbl/ehicleEF MH 1,586.19 1,236.08 tbl/ehicleEF MH 19.19 58.92 tbl/ehicleEF MH 2.21 2.14 tbl/ehicleEF MH 0.25 1.09 tbl/ehicleEF MH 0.01 0.01 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 3.2980e-004 1.3450e-003 tbl/ehicleEF MH 3.2980e-003 3.2330e-003 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 0.45 0.57 tbl/ehicleEF MH 0.18 0.23 tbl/ehicleEF MH 0.11 0.15 tbl/ehicleEF MH 0.01 0.01 tbl/ehicleEF MH 0.01 0.01 tbl/ehicleEF MH 0.02 0.01 tbl/ehicleEF MH 0.02	tblVehicleEF	MH	0.03	0.03
tbl/ehicleEF MH 1,586.19 1,236.08 tbl/ehicleEF MH 19.19 58.92 tbl/ehicleEF MH 2.21 2.14 tbl/ehicleEF MH 0.25 1.09 tbl/ehicleEF MH 0.01 0.01 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 2.8800e-004 1.3450e-003 tbl/ehicleEF MH 3.2990e-003 3.2330e-003 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 0.04 0.04 tbl/ehicleEF MH 0.45 0.57 tbl/ehicleEF MH 0.18 0.23 tbl/ehicleEF MH 0.11 0.15 tbl/ehicleEF MH 0.01 0.03 0.03 tbl/ehicleEF MH 0.11 0.44 0.44 tbl/ehicleEF MH 0.11 0.44 0.04 tbl/ehicleEF MH 0.02 0.01 0.03 <td>tblVehicleEF</td> <td>MH</td> <td>1.78</td> <td>3.59</td>	tblVehicleEF	MH	1.78	3.59
tblVehicleEF MH 19.19 58.92 tblVehicleEF MH 2.21 2.14 tblVehicleEF MH 0.25 1.09 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 0.6500e-004 1.2370e-003 tblVehicleEF MH 0.45 0.67 tblVehicleEF MH 0.09 0.13 tblVehicleEF MH 0.11 0.15 tblVehicleEF MH 0.03 0.03 tblVehicleEF MH 0.01 0.04 tblVehicleEF MH 0.02 0.01 tblVehicleEF MH 0.02 0.01 tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	2.53	8.04
tblVehicleEF MH 2.21 2.14 tblVehicleEF MH 0.25 1.09 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.18 0.23 tblVehicleEF MH 0.11 0.15 tblVehicleEF MH 0.01 0.03 0.03 tblVehicleEF MH 0.02 0.01 0.04 tblVehicleEF MH 0.00e-004 7.2900e-004 1.2900e-004 tblVehicleEF MH 0.45 0.57 0.57 tblVehicleEF MH 0.09 0.13 0.05 0.057	tblVehicleEF	MH	1,586.19	1,236.08
tblVehicleEF MH 0.25 1.09 tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.18 0.23 tblVehicleEF MH 0.11 0.15 tblVehicleEF MH 0.03 0.03 tblVehicleEF MH 0.01 0.04 tblVehicleEF MH 0.02 0.01 tblVehicleEF MH 0.02 0.01 tblVehicleEF MH 1.9000e-004 7.2900e-004 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	19.19	58.92
tblVehicleEF MH 0.01 0.01 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13 tblVehicleEF MH 0.18 0.23 tblVehicleEF MH 0.11 0.15 tblVehicleEF MH 0.03 0.03 tblVehicleEF MH 0.11 0.44 tblVehicleEF MH 0.02 0.01 tblVehicleEF MH 1.9000e-004 7.2900e-004 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	2.21	2.14
tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.18 0.23 tblVehicleEF MH 0.11 0.15 tblVehicleEF MH 0.03 0.03 tblVehicleEF MH 0.11 0.44 tblVehicleEF MH 0.02 0.01 tblVehicleEF MH 1.9000e-004 7.2900e-004 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	0.25	1.09
tblVehicleEF MH 2.8800e-004 1.3450e-003 tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13 tblVehicleEF MH 0.18 0.23 tblVehicleEF MH 0.11 0.15 tblVehicleEF MH 0.03 0.03 tblVehicleEF MH 0.11 0.44 tblVehicleEF MH 0.02 0.01 tblVehicleEF MH 1.9000e-004 7.2900e-004 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	0.01	0.01
tblVehicleEF MH 3.2980e-003 3.2330e-003 tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13 tblVehicleEF MH 0.18 0.23 tblVehicleEF MH 0.11 0.15 tblVehicleEF MH 0.03 0.03 tblVehicleEF MH 0.11 0.44 tblVehicleEF MH 0.02 0.01 tblVehicleEF MH 1.9000e-004 7.2900e-004 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	0.04	0.04
tblVehicleEF MH 0.04 0.04 tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13 tblVehicleEF MH 0.18 0.23 tblVehicleEF MH 0.11 0.15 tblVehicleEF MH 0.03 0.03 tblVehicleEF MH 0.11 0.44 tblVehicleEF MH 0.02 0.01 tblVehicleEF MH 1.9000e-004 7.2900e-004 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	2.8800e-004	1.3450e-003
tblVehicleEF MH 2.6500e-004 1.2370e-003 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13 tblVehicleEF MH 0.18 0.23 tblVehicleEF MH 0.11 0.15 tblVehicleEF MH 0.03 0.03 tblVehicleEF MH 0.11 0.44 tblVehicleEF MH 0.02 0.01 tblVehicleEF MH 1.9000e-004 7.2900e-004 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	3.2980e-003	3.2330e-003
tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13 tblVehicleEF MH 0.18 0.23 tblVehicleEF MH 0.11 0.15 tblVehicleEF MH 0.03 0.03 tblVehicleEF MH 0.11 0.44 tblVehicleEF MH 0.02 0.01 tblVehicleEF MH 1.9000e-004 7.2900e-004 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	0.04	0.04
tblVehicleEF MH 0.09 0.13 tblVehicleEF MH 0.18 0.23 tblVehicleEF MH 0.11 0.15 tblVehicleEF MH 0.03 0.03 tblVehicleEF MH 0.11 0.44 tblVehicleEF MH 0.02 0.01 tblVehicleEF MH 1.9000e-004 7.2900e-004 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	2.6500e-004	1.2370e-003
tblVehicleEF MH 0.18 0.23 tblVehicleEF MH 0.11 0.15 tblVehicleEF MH 0.03 0.03 tblVehicleEF MH 0.11 0.44 tblVehicleEF MH 0.02 0.01 tblVehicleEF MH 1.9000e-004 7.2900e-004 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	0.45	0.57
tblVehicleEF MH 0.11 0.15 tblVehicleEF MH 0.03 0.03 tblVehicleEF MH 0.11 0.44 tblVehicleEF MH 0.02 0.01 tblVehicleEF MH 1.9000e-004 7.2900e-004 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	0.09	0.13
tblVehicleEF MH 0.03 0.03 tblVehicleEF MH 0.11 0.44 tblVehicleEF MH 0.02 0.01 tblVehicleEF MH 1.9000e-004 7.2900e-004 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	0.18	0.23
tblVehicleEF MH 0.11 0.44 tblVehicleEF MH 0.02 0.01 tblVehicleEF MH 1.9000e-004 7.2900e-004 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	0.11	0.15
tblVehicleEF MH 0.02 0.01 tblVehicleEF MH 1.9000e-004 7.2900e-004 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	0.03	0.03
tblVehicleEF MH 1.9000e-004 7.2900e-004 tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	0.11	0.44
tblVehicleEF MH 0.45 0.57 tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	0.02	0.01
tblVehicleEF MH 0.09 0.13	tblVehicleEF	MH	1.9000e-004	7.2900e-004
<u> </u>	tblVehicleEF	MH	0.45	0.57
tblVehicleEF MH 0.18 0.23	tblVehicleEF	MH	0.09	0.13
	tblVehicleEF	MH	0.18	0.23

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tblVehicleEF	MH	0.14	
	IVII I	0.14	0.21
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	МН	0.12	0.49
tblVehicleEF	MHD	2.6500e-003	0.02
tblVehicleEF	MHD	5.6210e-003	4.9220e-003
tblVehicleEF	MHD	6.8290e-003	0.06
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tblVehicleEF	MHD	0.45	0.38
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tblVehicleEF	MHD	1,112.28	1,206.01
tblVehicleEF	MHD	6.82	29.96
tblVehicleEF	MHD	0.66	0.98
tblVehicleEF	MHD	2.26	1.79
tblVehicleEF	MHD	1.45	15.84
tblVehicleEF	MHD	1.5800e-003	6.7710e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	9.6000e-005	5.6200e-004
tblVehicleEF	MHD	1.5110e-003	6.4780e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	8.9000e-005	5.1700e-004
tblVehicleEF	MHD	6.0300e-004	1.0290e-003
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	2.5700e-004	4.3500e-004
tblVehicleEF	MHD	0.10	0.07
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.04	0.22
tblVehicleEF	MHD	7.9100e-004	1.9790e-003

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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.7000e-005	3.6500e-004
tblVehicleEF	MHD	6.0300e-004	1.0290e-003
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	2.5700e-004	4.3500e-004
tblVehicleEF	MHD	0.12	0.09
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.04	0.24
tblVehicleEF	MHD	2.5010e-003	0.02
tblVehicleEF	MHD	5.6630e-003	4.9830e-003
tblVehicleEF	MHD	6.4640e-003	0.06
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tblVehicleEF	MHD	6.71	29.96
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tblVehicleEF	MHD	2.15	1.70
tblVehicleEF	MHD	1.45	15.81
tblVehicleEF	MHD	1.3350e-003	5.7080e-003
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tblVehicleEF	MHD	9.6000e-005	5.6200e-004
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tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	8.9000e-005	5.1700e-004
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tblVehicleEF	MHD	0.02	0.04

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tblVehicleEF	MHD	0.02	0.04
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tblVehicleEF	MHD	8.0200e-004	2.0970e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.6000e-005	3.6000e-004
tblVehicleEF	MHD	1.5240e-003	2.5990e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	5.6900e-004	9.6400e-004
tblVehicleEF	MHD	0.12	0.09
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.04	0.23
tblVehicleEF	MHD	2.7990e-003	0.02
tblVehicleEF	MHD	5.5780e-003	4.8610e-003
tblVehicleEF	MHD	7.2200e-003	0.07
tblVehicleEF	MHD	0.41	0.43
tblVehicleEF	MHD	0.44	0.37
tblVehicleEF	MHD	0.91	4.08
tblVehicleEF	MHD	82.15	189.96
tblVehicleEF	MHD	1,112.27	1,206.01
tblVehicleEF	MHD	6.94	29.96
tblVehicleEF	MHD	0.65	0.93
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tblVehicleEF	MHD	1.9180e-003	8.2390e-003
tblVehicleEF	MHD	0.04	0.01

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tblVehicleEF	MHD	9.6000e-005	5.6200e-004
tblVehicleEF	MHD	1.8350e-003	7.8830e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	8.9000e-005	5.1700e-004
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tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	1.0200e-004	1.7300e-004
tblVehicleEF	MHD	0.10	0.07
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.04	0.24
tblVehicleEF	MHD	7.7800e-004	1.8190e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9000e-005	3.7100e-004
tblVehicleEF	MHD	1.9600e-004	3.3400e-004
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	1.0200e-004	1.7300e-004
tblVehicleEF	MHD	0.12	0.09
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.04	0.26
tblVehicleEF	OBUS	7.1170e-003	0.01
tblVehicleEF	OBUS	9.4900e-003	0.01
tblVehicleEF	OBUS	0.02	0.04
tblVehicleEF	OBUS	0.53	0.30
tblVehicleEF	OBUS	0.94	0.90
tblVehicleEF	OBUS	2.31	7.58
tblVehicleEF	OBUS	89.29	168.97
tblVehicleEF	OBUS	1,388.20	1,346.53

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tblVehicleEF tblVehicleEF	OBUS OBUS OBUS OBUS OBUS OBUS OBUS OBUS	16.92 0.44 2.01 0.96 8.7800e-004 0.03 1.6800e-004 8.4000e-004 0.02 1.5400e-004 2.1380e-003 0.02	64.86 0.82 2.15 3.93 1.8500e-004 8.9590e-003 9.0800e-004 1.7700e-004 8.5560e-003 8.3500e-004 2.2850e-003
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	OBUS OBUS OBUS OBUS OBUS OBUS OBUS OBUS	2.01 0.96 8.7800e-004 0.03 1.6800e-004 8.4000e-004 0.02 1.5400e-004 2.1380e-003	2.15 3.93 1.8500e-004 8.9590e-003 9.0800e-004 1.7700e-004 8.5560e-003 8.3500e-004 2.2850e-003
tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF tbIVehicleEF	OBUS OBUS OBUS OBUS OBUS OBUS OBUS OBUS	0.96 8.7800e-004 0.03 1.6800e-004 8.4000e-004 0.02 1.5400e-004 2.1380e-003	3.93 1.8500e-004 8.9590e-003 9.0800e-004 1.7700e-004 8.5560e-003 8.3500e-004 2.2850e-003
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	OBUS OBUS OBUS OBUS OBUS OBUS OBUS OBUS	8.7800e-004 0.03 1.6800e-004 8.4000e-004 0.02 1.5400e-004 2.1380e-003	1.8500e-004 8.9590e-003 9.0800e-004 1.7700e-004 8.5560e-003 8.3500e-004 2.2850e-003
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	OBUS OBUS OBUS OBUS OBUS OBUS OBUS	0.03 1.6800e-004 8.4000e-004 0.02 1.5400e-004 2.1380e-003	8.9590e-003 9.0800e-004 1.7700e-004 8.5560e-003 8.3500e-004 2.2850e-003
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	OBUS OBUS OBUS OBUS OBUS OBUS	1.6800e-004 8.4000e-004 0.02 1.5400e-004 2.1380e-003	9.0800e-004 1.7700e-004 8.5560e-003 8.3500e-004 2.2850e-003
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	OBUS OBUS OBUS OBUS OBUS	8.4000e-004 0.02 1.5400e-004 2.1380e-003	1.7700e-004 8.5560e-003 8.3500e-004 2.2850e-003
tblVehicleEF tblVehicleEF tblVehicleEF	OBUS OBUS OBUS OBUS	0.02 1.5400e-004 2.1380e-003	8.5560e-003 8.3500e-004 2.2850e-003
tblVehicleEF tblVehicleEF	OBUS OBUS OBUS	1.5400e-004 2.1380e-003	8.3500e-004 2.2850e-003
tblVehicleEF	OBUS OBUS	2.1380e-003	2.2850e-003
	OBUS		
<u> </u>		0.02	-+
tblVehicleEF	OBUS		0.02
tblVehicleEF		0.05	0.05
tblVehicleEF	OBUS	7.4000e-004	7.9800e-004
tblVehicleEF	OBUS	0.10	0.10
tblVehicleEF	OBUS	0.07	0.04
tblVehicleEF	OBUS	0.11	0.45
tblVehicleEF	OBUS	8.4900e-004	1.6230e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.6700e-004	7.8100e-004
tblVehicleEF	OBUS	2.1380e-003	2.2850e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	7.4000e-004	7.9800e-004
tblVehicleEF	OBUS	0.12	0.12
tblVehicleEF	OBUS	0.07	0.04
tblVehicleEF	OBUS	0.12	0.49
tblVehicleEF	OBUS	7.1740e-003	0.01
tblVehicleEF	OBUS	9.6990e-003	0.01

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tbVehicleEF OBUS 0.62 0.28 tbVehicleEF OBUS 0.52 0.28 tbVehicleEF OBUS 0.92 tbVehicleEF OBUS 2.09 6.86 tbVehicleEF OBUS 88.05 178.07 tbVehicleEF OBUS 1.386.24 1.346.53 tbVehicleEF OBUS 16.55 64.86 tbVehicleEF OBUS 1.89 2.03 tbVehicleEF OBUS 1.89 2.03 tbVehicleEF OBUS 7.45000-004 3.86 tbVehicleEF OBUS 7.45000-004 1.56000-004 tbVehicleEF OBUS 1.68000-004 9.08000-004 tbVehicleEF OBUS 7.13000-004 1.49000-004 tbVehicleEF OBUS 7.13000-004 8.35000-004 tbVehicleEF OBUS 5.32600-003 5.66800-003 tbVehicleEF OBUS 5.32600-003 5.66800-003 tbVehicleEF OBUS 0.05 0.05 tbV				
tblVehideEF OBUS 0.96 0.92 tblVehideEF OBUS 2.09 6.86 tblVehideEF OBUS 89.05 178.07 tblVehideEF OBUS 1.388.24 1.346.53 tblVehideEF OBUS 16.55 64.86 tblVehideEF OBUS 0.43 0.85 tblVehideEF OBUS 1.89 2.03 tblVehideEF OBUS 0.94 3.66 tblVehideEF OBUS 7.4500e-004 1.500e-004 tblVehideEF OBUS 0.03 8.650e-003 tblVehideEF OBUS 1.8800e-004 9.0800e-004 tblVehideEF OBUS 7.1300e-004 1.4900e-004 tblVehideEF OBUS 0.02 8.5500e-003 tblVehideEF OBUS 1.5400e-004 8.5600e-003 tblVehideEF OBUS 0.02 0.03 tblVehideEF OBUS 0.05 0.05 tblVehideEF OBUS 0.07 0.04 tblV	tblVehicleEF	OBUS	0.02	0.04
tb/VehicleEF OBUS 2.09 6.86 tb/VehicleEF OBUS 89.05 178.07 tb/VehicleEF OBUS 1,388.24 1,346.53 tb/VehicleEF OBUS 16.55 64.86 tb/VehicleEF OBUS 0.43 0.85 tb/VehicleEF OBUS 1.89 2.03 tb/VehicleEF OBUS 0.94 3.86 tb/VehicleEF OBUS 7.4500e-004 1.5600e-004 tb/VehicleEF OBUS 0.03 8.9500e-003 tb/VehicleEF OBUS 1.8800e-004 9.0800e-004 tb/VehicleEF OBUS 7.1300e-004 1.4900e-004 tb/VehicleEF OBUS 0.02 8.5600e-003 tb/VehicleEF OBUS 1.5400e-004 8.3600e-004 tb/VehicleEF OBUS 0.02 0.03 tb/VehicleEF OBUS 0.05 0.05 tb/VehicleEF OBUS 0.05 0.05 tb/VehicleEF OBUS 0.10 0.10 <t< td=""><td>tblVehicleEF</td><td>OBUS</td><td>0.52</td><td>0.28</td></t<>	tblVehicleEF	OBUS	0.52	0.28
tbl/vehicleEF OBUS 89.05 178.07 tbl/vehicleEF OBUS 1.388.24 1.346.53 tbl/vehicleEF OBUS 16.55 64.86 tbl/vehicleEF OBUS 0.43 0.85 tbl/vehicleEF OBUS 1.89 2.03 tbl/vehicleEF OBUS 0.94 3.86 tbl/vehicleEF OBUS 7.4500e-004 1.5500e-004 tbl/vehicleEF OBUS 0.03 8.9590e-003 tbl/vehicleEF OBUS 1.6800e-004 9.0800e-004 tbl/vehicleEF OBUS 7.1300e-004 1.4900e-004 tbl/vehicleEF OBUS 0.02 8.5560e-003 tbl/vehicleEF OBUS 1.5400e-004 8.3500e-004 tbl/vehicleEF OBUS 5.3260e-003 5.660e-003 tbl/vehicleEF OBUS 0.02 0.03 tbl/vehicleEF OBUS 0.05 0.05 tbl/vehicleEF OBUS 0.10 0.10 tbl/vehicleEF OBUS 0.10	tblVehicleEF	OBUS	0.96	0.92
tbl/vehicleEF OBUS 1,388.24 1,346.53 tbl/vehicleEF OBUS 16.55 64.86 tbl/vehicleEF OBUS 0.43 0.85 tbl/vehicleEF OBUS 1.88 2.03 tbl/vehicleEF OBUS 0.94 3.86 tbl/vehicleEF OBUS 7.4500e-004 1.5600e-004 tbl/vehicleEF OBUS 0.03 8.9590e-003 tbl/vehicleEF OBUS 1.6800e-004 9.0800e-004 tbl/vehicleEF OBUS 7.1300e-004 1.4900e-004 tbl/vehicleEF OBUS 0.02 8.5560e-003 tbl/vehicleEF OBUS 1.5400e-004 8.3500e-004 tbl/vehicleEF OBUS 5.3260e-003 5.660e-003 tbl/vehicleEF OBUS 0.02 0.03 tbl/vehicleEF OBUS 0.05 0.05 tbl/vehicleEF OBUS 0.05 0.05 tbl/vehicleEF OBUS 0.10 0.10 tbl/vehicleEF OBUS 0.07 <td< td=""><td>tblVehicleEF</td><td>OBUS</td><td>2.09</td><td>6.86</td></td<>	tblVehicleEF	OBUS	2.09	6.86
tbl/ehicleEF OBUS 16.55 64.86 tbl/ehicleEF OBUS 0.43 0.85 tbl/ehicleEF OBUS 1.89 2.03 tbl/ehicleEF OBUS 0.94 3.86 tbl/ehicleEF OBUS 7.4500e-004 1.5600e-004 tbl/ehicleEF OBUS 0.03 8.9590e-003 tbl/ehicleEF OBUS 1.6800e-004 9.0800e-004 tbl/ehicleEF OBUS 7.1300e-004 1.4900e-004 tbl/ehicleEF OBUS 7.1300e-004 1.4900e-004 tbl/ehicleEF OBUS 0.02 8.5560e-003 tbl/ehicleEF OBUS 1.5400e-004 8.3500e-004 tbl/ehicleEF OBUS 5.3260e-003 5.0680e-003 tbl/ehicleEF OBUS 0.02 0.03 tbl/ehicleEF OBUS 0.05 0.05 tbl/ehicleEF OBUS 0.10 0.10 tbl/ehicleEF OBUS 0.10 0.42 tbl/ehicleEF OBUS 0.01 0.04	tblVehicleEF	OBUS	89.05	178.07
tblVehideEF OBUS 0.43 0.85 tblVehideEF OBUS 1.89 2.03 tblVehideEF OBUS 0.94 3.86 tblVehideEF OBUS 7.4500e-004 1.5600e-004 tblVehideEF OBUS 0.03 8.9590e-003 tblVehideEF OBUS 1.6800e-004 9.0800e-004 tblVehideEF OBUS 7.1300e-004 1.4900e-004 tblVehideEF OBUS 0.02 8.5560e-003 tblVehideEF OBUS 1.5400e-004 8.3500e-004 tblVehideEF OBUS 5.3260e-003 5.6600e-003 tblVehideEF OBUS 0.02 0.03 tblVehideEF OBUS 0.05 0.05 tblVehideEF OBUS 0.05 0.05 tblVehideEF OBUS 0.10 0.10 tblVehideEF OBUS 0.07 0.04 tblVehideEF OBUS 0.10 0.42 tblVehideEF OBUS 0.10 0.42 t	tblVehicleEF	OBUS	1,388.24	1,346.53
tblVehicleEF OBUS 1.89 2.03 tblVehicleEF OBUS 0.94 3.86 tblVehicleEF OBUS 7.4500e-004 1.5600e-004 tblVehicleEF OBUS 0.03 8.9590e-003 tblVehicleEF OBUS 1.6800e-004 9.0800e-004 tblVehicleEF OBUS 7.1300e-004 1.4900e-004 tblVehicleEF OBUS 1.5400e-004 8.3500e-003 tblVehicleEF OBUS 1.5400e-004 8.3500e-004 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 0.02 0.03 tblVehicleEF OBUS 0.05 0.05 tblVehicleEF OBUS 1.4670e-003 1.5780e-003 tblVehicleEF OBUS 0.10 0.10 tblVehicleEF OBUS 0.07 0.04 tblVehicleEF OBUS 0.07 0.04 tblVehicleEF OBUS 0.01 0.01 tblVehicleEF OBUS 0.01 0.01	tblVehicleEF	OBUS	16.55	64.86
tblVehicleEF OBUS 0.94 3.86 tblVehicleEF OBUS 7.4500e-004 1.5600e-004 tblVehicleEF OBUS 0.03 8.9590e-003 tblVehicleEF OBUS 1.8800e-004 9.0800e-004 tblVehicleEF OBUS 7.1300e-004 1.4900e-004 tblVehicleEF OBUS 0.02 8.5560e-003 tblVehicleEF OBUS 1.5400e-004 8.3500e-004 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 0.02 0.03 tblVehicleEF OBUS 0.05 0.05 tblVehicleEF OBUS 0.10 0.10 tblVehicleEF OBUS 0.10 0.42 tblVehicleEF OBUS 0.10 0.42 tblVehicleEF OBUS 0.01 0.01 tblVehicleEF OBUS 0.01 0.01 tblVehicleEF OBUS 0.01 0.01 tblVehicleEF OBUS 0.02 0.03 <td>tblVehicleEF</td> <td>OBUS</td> <td>0.43</td> <td>0.85</td>	tblVehicleEF	OBUS	0.43	0.85
tblVehicleEF OBUS 7.4500e-004 1.5600e-004 tblVehicleEF OBUS 0.03 8.9590e-003 tblVehicleEF OBUS 1.6800e-004 9.0800e-004 tblVehicleEF OBUS 7.1300e-004 1.4900e-004 tblVehicleEF OBUS 0.02 8.5560e-003 tblVehicleEF OBUS 1.5400e-004 8.3500e-004 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 0.02 0.03 tblVehicleEF OBUS 0.05 0.05 tblVehicleEF OBUS 0.10 0.10 tblVehicleEF OBUS 0.07 0.04 tblVehicleEF OBUS 0.10 0.42 tblVehicleEF OBUS 0.10 0.01 tblVehicleEF OBUS 0.01 0.01 tblVehicleEF OBUS 1.6400e-004 7.6900e-004 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 5.3260e-003	tblVehicleEF	OBUS	1.89	2.03
tbl/ehicleEF OBUS 0.03 8.9590e-003 tbl/ehicleEF OBUS 1.6800e-004 9.0800e-004 tbl/ehicleEF OBUS 7.1300e-004 1.4900e-004 tbl/ehicleEF OBUS 0.02 8.5560e-003 tbl/ehicleEF OBUS 1.5400e-004 8.3500e-004 tbl/ehicleEF OBUS 5.3260e-003 5.6680e-003 tbl/ehicleEF OBUS 0.02 0.03 tbl/ehicleEF OBUS 0.05 0.05 tbl/ehicleEF OBUS 0.10 0.10 tbl/ehicleEF OBUS 0.07 0.04 tbl/ehicleEF OBUS 0.10 0.42 tbl/ehicleEF OBUS 0.01 0.01 tbl/ehicleEF OBUS 0.01 0.01 tbl/ehicleEF OBUS 0.01 0.01 tbl/ehicleEF OBUS 0.01 0.01 tbl/ehicleEF OBUS 0.02 0.03	tblVehicleEF	OBUS	0.94	3.86
tblVehicleEF OBUS 1.8800e-004 9.0800e-004 tblVehicleEF OBUS 7.1300e-004 1.4900e-004 tblVehicleEF OBUS 0.02 8.5560e-003 tblVehicleEF OBUS 1.5400e-004 8.3500e-004 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 0.02 0.03 tblVehicleEF OBUS 0.05 0.05 tblVehicleEF OBUS 1.4670e-003 1.5780e-003 tblVehicleEF OBUS 0.10 0.10 tblVehicleEF OBUS 0.07 0.04 tblVehicleEF OBUS 0.10 0.42 tblVehicleEF OBUS 8.4700e-004 1.7100e-003 tblVehicleEF OBUS 0.01 0.01 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 5.3260e-003 5.6680e-003	tblVehicleEF	OBUS	7.4500e-004	1.5600e-004
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tblVehicleEF OBUS 0.02 8.5560e-003 tblVehicleEF OBUS 1.5400e-004 8.3500e-004 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 0.02 0.03 tblVehicleEF OBUS 0.05 0.05 tblVehicleEF OBUS 1.4670e-003 1.5780e-003 tblVehicleEF OBUS 0.10 0.10 tblVehicleEF OBUS 0.07 0.04 tblVehicleEF OBUS 0.10 0.42 tblVehicleEF OBUS 8.4700e-004 1.7100e-003 tblVehicleEF OBUS 0.01 0.01 tblVehicleEF OBUS 1.6400e-004 7.6900e-004 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 0.02 0.03	tblVehicleEF	OBUS	1.6800e-004	9.0800e-004
tbl/ehicleEF OBUS 1.5400e-004 8.3500e-004 tbl/ehicleEF OBUS 5.3260e-003 5.6680e-003 tbl/ehicleEF OBUS 0.02 0.03 tbl/ehicleEF OBUS 0.05 0.05 tbl/ehicleEF OBUS 1.4670e-003 1.5780e-003 tbl/ehicleEF OBUS 0.10 0.10 tbl/ehicleEF OBUS 0.07 0.04 tbl/ehicleEF OBUS 0.10 0.42 tbl/ehicleEF OBUS 0.10 0.42 tbl/ehicleEF OBUS 8.4700e-004 1.7100e-003 tbl/ehicleEF OBUS 0.01 0.01 tbl/ehicleEF OBUS 1.6400e-004 7.6900e-004 tbl/ehicleEF OBUS 5.3260e-003 5.6680e-003 tbl/ehicleEF OBUS 0.02 0.03	tblVehicleEF	OBUS	7.1300e-004	1.4900e-004
tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 0.02 0.03 tblVehicleEF OBUS 0.05 0.05 tblVehicleEF OBUS 1.4670e-003 1.5780e-003 tblVehicleEF OBUS 0.10 0.10 tblVehicleEF OBUS 0.07 0.04 tblVehicleEF OBUS 0.10 0.42 tblVehicleEF OBUS 8.4700e-004 1.7100e-003 tblVehicleEF OBUS 0.01 0.01 tblVehicleEF OBUS 1.6400e-004 7.6900e-004 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 0.02 0.03	tblVehicleEF	OBUS	0.02	8.5560e-003
tblVehicleEF OBUS 0.02 0.03 tblVehicleEF OBUS 0.05 0.05 tblVehicleEF OBUS 1.4670e-003 1.5780e-003 tblVehicleEF OBUS 0.10 0.10 tblVehicleEF OBUS 0.07 0.04 tblVehicleEF OBUS 0.10 0.42 tblVehicleEF OBUS 8.4700e-004 1.7100e-003 tblVehicleEF OBUS 0.01 0.01 tblVehicleEF OBUS 1.6400e-004 7.6900e-004 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 0.02 0.03	tblVehicleEF	OBUS	1.5400e-004	8.3500e-004
tblVehicleEF OBUS 0.05 0.05 tblVehicleEF OBUS 1.4670e-003 1.5780e-003 tblVehicleEF OBUS 0.10 0.10 tblVehicleEF OBUS 0.07 0.04 tblVehicleEF OBUS 0.10 0.42 tblVehicleEF OBUS 8.4700e-004 1.7100e-003 tblVehicleEF OBUS 0.01 0.01 tblVehicleEF OBUS 1.6400e-004 7.6900e-004 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 0.02 0.03	tblVehicleEF	OBUS	5.3260e-003	5.6680e-003
tbl/ehicleEF OBUS 1.4670e-003 1.5780e-003 tbl/ehicleEF OBUS 0.10 0.10 tbl/ehicleEF OBUS 0.07 0.04 tbl/ehicleEF OBUS 0.10 0.42 tbl/ehicleEF OBUS 8.4700e-004 1.7100e-003 tbl/ehicleEF OBUS 0.01 0.01 tbl/ehicleEF OBUS 1.6400e-004 7.6900e-004 tbl/ehicleEF OBUS 5.3260e-003 5.6680e-003 tbl/ehicleEF OBUS 0.02 0.03	tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF OBUS 0.10 0.10 tblVehicleEF OBUS 0.07 0.04 tblVehicleEF OBUS 0.10 0.42 tblVehicleEF OBUS 8.4700e-004 1.7100e-003 tblVehicleEF OBUS 0.01 0.01 tblVehicleEF OBUS 1.6400e-004 7.6900e-004 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 0.02 0.03	tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF OBUS 0.07 0.04 tblVehicleEF OBUS 0.10 0.42 tblVehicleEF OBUS 8.4700e-004 1.7100e-003 tblVehicleEF OBUS 0.01 0.01 tblVehicleEF OBUS 1.6400e-004 7.6900e-004 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 0.02 0.03	tblVehicleEF	OBUS	1.4670e-003	1.5780e-003
tblVehicleEF OBUS 0.10 0.42 tblVehicleEF OBUS 8.4700e-004 1.7100e-003 tblVehicleEF OBUS 0.01 0.01 tblVehicleEF OBUS 1.6400e-004 7.6900e-004 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 0.02 0.03	tblVehicleEF	OBUS	0.10	0.10
tblVehicleEF OBUS 8.4700e-004 1.7100e-003 tblVehicleEF OBUS 0.01 0.01 tblVehicleEF OBUS 1.6400e-004 7.6900e-004 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 0.02 0.03	tblVehicleEF	OBUS	0.07	0.04
tblVehicleEF OBUS 0.01 0.01 tblVehicleEF OBUS 1.6400e-004 7.6900e-004 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 0.02 0.03	tblVehicleEF	OBUS	0.10	0.42
tblVehicleEF OBUS 1.6400e-004 7.6900e-004 tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 0.02 0.03	tblVehicleEF	OBUS	8.4700e-004	1.7100e-003
tblVehicleEF OBUS 5.3260e-003 5.6680e-003 tblVehicleEF OBUS 0.02 0.03	tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF OBUS 0.02 0.03	tblVehicleEF	OBUS	1.6400e-004	7.6900e-004
ii	tblVehicleEF	OBUS	5.3260e-003	5.6680e-003
tblVehicleEF OBUS 0.06 0.06	tblVehicleEF	OBUS	0.02	0.03
	tblVehicleEF	OBUS	0.06	0.06

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tblVehicleEF	OBUS	1.4670e-003	1.5780e-003
tblVehicleEF	OBUS	0.12	0.12
tblVehicleEF	OBUS	0.07	0.04
tblVehicleEF	OBUS	0.11	0.46
tblVehicleEF	OBUS	7.0490e-003	0.01
tblVehicleEF	OBUS	9.2770e-003	0.01
tblVehicleEF	OBUS	0.02	0.04
tblVehicleEF	OBUS	0.55	0.34
tblVehicleEF	OBUS	0.92	0.88
tblVehicleEF	OBUS	2.54	8.34
tblVehicleEF	OBUS	89.62	156.42
tblVehicleEF	OBUS	1,388.16	1,346.53
tblVehicleEF	OBUS	17.31	64.86
tblVehicleEF	OBUS	0.45	0.79
tblVehicleEF	OBUS	2.05	2.19
tblVehicleEF	OBUS	0.97	4.02
tblVehicleEF	OBUS	1.0610e-003	2.2500e-004
tblVehicleEF	OBUS	0.03	8.9590e-003
tblVehicleEF	OBUS	1.6800e-004	9.0800e-004
tblVehicleEF	OBUS	1.0150e-003	2.1600e-004
tblVehicleEF	OBUS	0.02	8.5560e-003
tblVehicleEF	OBUS	1.5400e-004	8.3500e-004
tblVehicleEF	OBUS	7.7300e-004	8.3600e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	3.6200e-004	3.9300e-004
tblVehicleEF	OBUS	0.10	0.10
tblVehicleEF	OBUS	0.07	0.04
tblVehicleEF	OBUS	0.11	0.48
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tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	OBUS OBUS OBUS OBUS OBUS OBUS OBUS OBUS	8.5200e-004 0.01 1.7100e-004 7.7300e-004 0.02 0.06 3.6200e-004 0.12	1.5040e-003 0.01 7.9400e-004 8.3600e-004 0.02 0.06 3.9300e-004
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	OBUS OBUS OBUS OBUS OBUS OBUS	1.7100e-004 7.7300e-004 0.02 0.06 3.6200e-004	7.9400e-004 8.3600e-004 0.02 0.06 3.9300e-004
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	OBUS OBUS OBUS OBUS	7.7300e-004 0.02 0.06 3.6200e-004	8.3600e-004 0.02 0.06 3.9300e-004
tblVehicleEF tblVehicleEF tblVehicleEF	OBUS OBUS OBUS	0.02 0.06 3.6200e-004	0.02 0.06 3.9300e-004
tblVehicleEF tblVehicleEF	OBUS OBUS OBUS	0.06 3.6200e-004	0.06 3.9300e-004
tblVehicleEF	OBUS OBUS	3.6200e-004	3.9300e-004
ļ	OBUS		
-		0.12	.+
tblVehicleEF	ORLIS		0.12
tblVehicleEF	0000	0.07	0.04
tblVehicleEF	OBUS	0.12	0.52
tblVehicleEF	SBUS	0.05	0.80
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.4630e-003	0.07
tblVehicleEF	SBUS	2.25	8.35
tblVehicleEF	SBUS	1.72	0.96
tblVehicleEF	SBUS	1.19	9.02
tblVehicleEF	SBUS	362.74	1,103.94
tblVehicleEF	SBUS	1,093.57	1,031.21
tblVehicleEF	SBUS	5.19	59.88
tblVehicleEF	SBUS	3.59	8.85
tblVehicleEF	SBUS	5.21	3.80
tblVehicleEF	SBUS	0.60	11.63
tblVehicleEF	SBUS	3.8500e-003	9.0020e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	5.2000e-005	6.3400e-004
tblVehicleEF	SBUS	3.6830e-003	8.6120e-003
tblVehicleEF	SBUS	2.7010e-003	2.5800e-003
tblVehicleEF	SBUS	0.03	0.02

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tblVehicleEF	SBUS	4.8000e-005	5.8300e-004
tblVehicleEF	SBUS	1.1380e-003	5.6690e-003
tblVehicleEF	SBUS	0.01	0.04
tblVehicleEF	SBUS	0.26	0.98
tblVehicleEF	SBUS	4.2600e-004	1.9690e-003
tblVehicleEF	SBUS	0.14	0.11
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.05	0.45
tblVehicleEF	SBUS	3.4540e-003	0.01
tblVehicleEF	SBUS	0.01	9.9760e-003
tblVehicleEF	SBUS	5.1000e-005	7.5400e-004
tblVehicleEF	SBUS	1.1380e-003	5.6690e-003
tblVehicleEF	SBUS	0.01	0.04
tblVehicleEF	SBUS	0.37	1.42
tblVehicleEF	SBUS	4.2600e-004	1.9690e-003
tblVehicleEF	SBUS	0.18	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.05	0.49
tblVehicleEF	SBUS	0.05	0.80
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	6.0170e-003	0.06
tblVehicleEF	SBUS	2.20	8.24
tblVehicleEF	SBUS	1.77	0.98
tblVehicleEF	SBUS	0.80	6.11
tblVehicleEF	SBUS	374.58	1,151.97
tblVehicleEF	SBUS	1,093.66	1,031.21
tblVehicleEF	SBUS	4.55	59.88
tblVehicleEF	SBUS	3.69	9.13
tblVehicleEF	SBUS	4.91	3.59

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tblVehicleEF tblVehicleEF	SBUS SBUS SBUS SBUS SBUS SBUS SBUS SBUS	0.60 3.2530e-003 0.01 0.03 5.2000e-005 3.1120e-003 2.7010e-003	11.58 7.5880e-003 0.01 0.02 6.3400e-004 7.2600e-003
tblVehicleEF	SBUS SBUS SBUS SBUS SBUS SBUS	0.01 0.03 5.2000e-005 3.1120e-003	0.01 0.02 6.3400e-004 7.2600e-003
tblVehicleEF	SBUS SBUS SBUS SBUS SBUS	0.03 5.2000e-005 3.1120e-003	0.02 6.3400e-004 7.2600e-003
tblVehicleEF	SBUS SBUS SBUS SBUS	5.2000e-005 3.1120e-003	6.3400e-004 7.2600e-003
tblVehicleEF	SBUS SBUS SBUS	3.1120e-003	7.2600e-003
tblVehicleEF	SBUS SBUS		
tblVehicleEF	SBUS	2.7010e-003	·+
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF			2.5800e-003
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF		0.03	0.02
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	SBUS	4.8000e-005	5.8300e-004
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	SBUS	2.7800e-003	0.01
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	SBUS	0.26	0.98
tblVehicleEF tblVehicleEF tblVehicleEF	SBUS	8.1800e-004	3.8470e-003
tblVehicleEF tblVehicleEF	SBUS	0.14	0.11
tblVehicleEF	SBUS	0.02	0.02
	SBUS	0.04	0.36
th!\/ahialaEE	SBUS	3.5660e-003	0.01
IDIVEHICIEEF	SBUS	0.01	9.9760e-003
tblVehicleEF	SBUS	4.5000e-005	7.0600e-004
tblVehicleEF	SBUS	2.7800e-003	0.01
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.37	1.41
tblVehicleEF	SBUS	8.1800e-004	3.8470e-003
tblVehicleEF	SBUS	0.19	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.04	0.40
tblVehicleEF	SBUS	0.05	0.80
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	8.7930e-003	0.08

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tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	SBUS SBUS SBUS SBUS SBUS SBUS SBUS SBUS	2.31 1.68 1.57 346.40 1,093.49 5.83 3.46 5.33 0.61 4.6740e-003 0.01	8.50 0.93 11.95 1,037.60 1,031.21 59.88 8.46 3.88 11.68 0.01
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	SBUS SBUS SBUS SBUS SBUS SBUS SBUS SBUS	1.57 346.40 1,093.49 5.83 3.46 5.33 0.61 4.6740e-003	11.95 1,037.60 1,031.21 59.88 8.46 3.88
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	SBUS SBUS SBUS SBUS SBUS SBUS SBUS SBUS	346.40 1,093.49 5.83 3.46 5.33 0.61 4.6740e-003	1,037.60 1,031.21 59.88 8.46 3.88 11.68
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	SBUS SBUS SBUS SBUS SBUS SBUS SBUS SBUS	1,093.49 5.83 3.46 5.33 0.61 4.6740e-003	1,031.21 59.88 8.46 3.88 11.68
tblVehicleEF tblVehicleEF tblVehicleEF tblVehicleEF	SBUS SBUS SBUS SBUS SBUS SBUS SBUS	5.83 3.46 5.33 0.61 4.6740e-003	59.88 8.46 3.88 11.68
tblVehicleEF tblVehicleEF tblVehicleEF	SBUS SBUS SBUS SBUS SBUS	3.46 5.33 0.61 4.6740e-003	8.46 3.88 11.68
tblVehicleEF tblVehicleEF	SBUS SBUS SBUS SBUS	5.33 0.61 4.6740e-003	3.88 11.68
tblVehicleEF	SBUS SBUS SBUS	0.61 4.6740e-003	11.68
ļi	SBUS SBUS	4.6740e-003	
thlVehicleFF	SBUS	 	0.01
torvernoie Er		0 01	
tblVehicleEF		0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	5.2000e-005	6.3400e-004
tblVehicleEF	SBUS	4.4720e-003	0.01
tblVehicleEF	SBUS	2.7010e-003	2.5800e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	4.8000e-005	5.8300e-004
tblVehicleEF	SBUS	4.4500e-004	2.1100e-003
tblVehicleEF	SBUS	0.01	0.04
tblVehicleEF	SBUS	0.26	0.98
tblVehicleEF	SBUS	2.1600e-004	9.8800e-004
tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	0.05	0.53
tblVehicleEF	SBUS	3.2990e-003	0.01
tblVehicleEF	SBUS	0.01	9.9750e-003
tblVehicleEF	SBUS	5.8000e-005	8.0300e-004
tblVehicleEF	SBUS	4.4500e-004	2.1100e-003
tblVehicleEF	SBUS	0.01	0.04

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tblVehicleEF	SBUS	0.37	1.42
			!
tblVehicleEF	SBUS	2.1600e-004	9.8800e-004
tblVehicleEF	SBUS	0.18	0.13
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	0.06	0.58
tblVehicleEF	UBUS	2.51	1.25
tblVehicleEF	UBUS	0.02	0.09
tblVehicleEF	UBUS	18.67	10.38
tblVehicleEF	UBUS	1.44	16.27
tblVehicleEF	UBUS	1,779.74	2,021.35
tblVehicleEF	UBUS	16.50	111.40
tblVehicleEF	UBUS	1.33	11.24
tblVehicleEF	UBUS	0.15	15.14
tblVehicleEF	UBUS	0.09	0.58
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	4.4680e-003	0.20
tblVehicleEF	UBUS	1.3800e-004	1.5470e-003
tblVehicleEF	UBUS	0.04	0.25
tblVehicleEF	UBUS	6.0960e-003	3.0000e-003
tblVehicleEF	UBUS	4.2610e-003	0.19
tblVehicleEF	UBUS	1.2700e-004	1.4220e-003
tblVehicleEF	UBUS	7.7000e-004	9.0800e-003
tblVehicleEF	UBUS	6.9410e-003	0.12
tblVehicleEF	UBUS	3.8100e-004	3.2360e-003
tblVehicleEF	UBUS	0.04	0.91
tblVehicleEF	UBUS	1.8410e-003	0.03
tblVehicleEF	UBUS	0.09	1.20
tblVehicleEF	UBUS	9.0160e-003	0.01
tblVehicleEF	UBUS	1.6300e-004	1.4070e-003

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tblVehicleEF	UBUS	7.7000e-004	9.0800e-003
tblVehicleEF	UBUS	6.9410e-003	0.12
tblVehicleEF	UBUS	3.8100e-004	3.2360e-003
tblVehicleEF	UBUS	2.57	2.24
tblVehicleEF	UBUS	1.8410e-003	0.03
tblVehicleEF	UBUS	0.10	1.31
tblVehicleEF	UBUS	2.51	1.26
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	18.67	10.53
tblVehicleEF	UBUS	1.17	12.94
tblVehicleEF	UBUS	1,779.75	2,021.35
tblVehicleEF	UBUS	16.03	111.40
tblVehicleEF	UBUS	1.32	10.61
tblVehicleEF	UBUS	0.14	15.01
tblVehicleEF	UBUS	0.09	0.58
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	4.4680e-003	0.20
tblVehicleEF	UBUS	1.3800e-004	1.5470e-003
tblVehicleEF	UBUS	0.04	0.25
tblVehicleEF	UBUS	6.0960e-003	3.0000e-003
tblVehicleEF	UBUS	4.2610e-003	0.19
tblVehicleEF	UBUS	1.2700e-004	1.4220e-003
tblVehicleEF	UBUS	1.9430e-003	0.02
tblVehicleEF	UBUS	8.8600e-003	0.16
tblVehicleEF	UBUS	8.1500e-004	7.1170e-003
tblVehicleEF	UBUS	0.04	0.93
tblVehicleEF	UBUS	1.7420e-003	0.03
tblVehicleEF	UBUS	0.08	1.05
tblVehicleEF	UBUS	9.0160e-003	0.01

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	UBUS	1.5900e-004	1.3500e-003
tblVehicleEF			
tblVehicleEF	UBUS	1.9430e-003	0.02
tblVehicleEF	UBUS	8.8600e-003	0.16
tblVehicleEF	UBUS	8.1500e-004	7.1170e-003
tblVehicleEF	UBUS	2.57	2.27
tblVehicleEF	UBUS	1.7420e-003	0.03
tblVehicleEF	UBUS	0.09	1.14
tblVehicleEF	UBUS	2.51	1.24
tblVehicleEF	UBUS	0.02	0.10
tblVehicleEF	UBUS	18.66	10.24
tblVehicleEF	UBUS	1.74	19.89
tblVehicleEF	UBUS	1,779.74	2,021.35
tblVehicleEF	UBUS	17.01	111.40
tblVehicleEF	UBUS	1.33	11.48
tblVehicleEF	UBUS	0.16	15.27
tblVehicleEF	UBUS	0.09	0.58
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	4.4680e-003	0.20
tblVehicleEF	UBUS	1.3800e-004	1.5470e-003
tblVehicleEF	UBUS	0.04	0.25
tblVehicleEF	UBUS	6.0960e-003	3.0000e-003
tblVehicleEF	UBUS	4.2610e-003	0.19
tblVehicleEF	UBUS	1.2700e-004	1.4220e-003
tblVehicleEF	UBUS	2.7900e-004	3.2250e-003
tblVehicleEF	UBUS	6.9020e-003	0.14
tblVehicleEF	UBUS	1.7300e-004	1.4550e-003
tblVehicleEF	UBUS	0.04	0.89
tblVehicleEF	UBUS	2.2650e-003	0.04
tblVehicleEF	UBUS	0.10	1.36

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tbl/VehicleEF UBUS 9.0160e-003 0.01 tbl/VehicleEF UBUS 1.6800e-004 1.4690e-003 tbl/VehicleEF UBUS 2.7900e-004 3.2250e-003 tbl/VehicleEF UBUS 6.9020e-003 0.14 tbl/VehicleEF UBUS 1.7300e-004 1.4550e-003 tbl/VehicleEF UBUS 2.57 2.21 tbl/VehicleEF UBUS 2.2650e-003 0.04 tbl/VehicleEF UBUS 0.11 1.49 tbl/VehicleTrips ST_TR 6.42 0.00 tbl/VehicleTrips ST_TR 2.12 0.00 tbl/VehicleTrips SU_TR 5.09 0.00 tbl/VehicleTrips SU_TR 2.12 0.00 tbl/VehicleTrips WD_TR 3.93 0.00 tbl/VehicleTrips WD_TR 2.12 0.00 tbl/VehicleTrips WD_TR 2.12 0.00 tbl/VehicleTrips WD_TR 2.12 0.00 tbl/VehicleTrips WD_TR 2.12				
tblVehicleEF UBUS 2.7900e-004 3.2250e-003 tblVehicleEF UBUS 6.9020e-003 0.14 tblVehicleEF UBUS 1.7300e-004 1.4550e-003 tblVehicleEF UBUS 2.57 2.21 tblVehicleEF UBUS 2.2650e-003 0.04 tblVehicleEF UBUS 0.11 1.49 tblVehicleTrips ST_TR 6.42 0.00 tblVehicleTrips ST_TR 2.12 0.00 tblVehicleTrips SU_TR 5.09 0.00 tblVehicleTrips SU_TR 2.12 0.00 tblVehicleTrips WD_TR 3.93 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblWater IndoorWaterUseRate 29,368,750.00 105,120,000.00	tblVehicleEF	UBUS	9.0160e-003	0.01
tblVehicleEF UBUS 6.9020e-003 0.14 tblVehicleEF UBUS 1.7300e-004 1.4550e-003 tblVehicleEF UBUS 2.57 2.21 tblVehicleEF UBUS 2.2650e-003 0.04 tblVehicleTrips ST_TR 6.42 0.00 tblVehicleTrips ST_TR 2.12 0.00 tblVehicleTrips SU_TR 5.09 0.00 tblVehicleTrips SU_TR 2.12 0.00 tblVehicleTrips SU_TR 3.93 0.00 tblVehicleTrips WD_TR 3.93 0.00 tblVehicleTrips WD_TR 2.12 0.00	tblVehicleEF	UBUS	1.6800e-004	1.4690e-003
tblVehicleEF UBUS 1.7300e-004 1.4550e-003 tblVehicleEF UBUS 2.57 2.21 tblVehicleEF UBUS 2.2650e-003 0.04 tblVehicleEF UBUS 0.11 1.49 tblVehicleTrips ST_TR 6.42 0.00 tblVehicleTrips ST_TR 2.12 0.00 tblVehicleTrips SU_TR 5.09 0.00 tblVehicleTrips SU_TR 2.12 0.00 tblVehicleTrips WD_TR 3.93 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblVehicleTrips WD_TR 2.12 0.00	tblVehicleEF	UBUS	2.7900e-004	3.2250e-003
tblVehicleEF UBUS 2.57 2.21 tblVehicleEF UBUS 2.2650e-003 0.04 tblVehicleFF UBUS 0.11 1.49 tblVehicleTrips ST_TR 6.42 0.00 tblVehicleTrips ST_TR 2.12 0.00 tblVehicleTrips SU_TR 5.09 0.00 tblVehicleTrips SU_TR 2.12 0.00 tblVehicleTrips WD_TR 3.93 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblWater IndoorWaterUseRate 29,368,750.00 105,120,000.00	tblVehicleEF	UBUS	6.9020e-003	0.14
tblVehicleEF UBUS 2.2650e-003 0.04 tblVehicleEF UBUS 0.11 1.49 tblVehicleTrips ST_TR 6.42 0.00 tblVehicleTrips ST_TR 2.12 0.00 tblVehicleTrips SU_TR 5.09 0.00 tblVehicleTrips SU_TR 2.12 0.00 tblVehicleTrips WD_TR 3.93 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblWater IndoorWaterUseRate 29,368,750.00 105,120,000.00	tblVehicleEF	UBUS	1.7300e-004	1.4550e-003
tblVehicleEF UBUS 0.11 1.49 tblVehicleTrips ST_TR 6.42 0.00 tblVehicleTrips ST_TR 2.12 0.00 tblVehicleTrips SU_TR 5.09 0.00 tblVehicleTrips SU_TR 2.12 0.00 tblVehicleTrips WD_TR 3.93 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblWater IndoorWaterUseRate 29,368,750.00 105,120,000.00	tblVehicleEF	UBUS	2.57	2.21
tblVehicleTrips ST_TR 6.42 0.00 tblVehicleTrips ST_TR 2.12 0.00 tblVehicleTrips SU_TR 5.09 0.00 tblVehicleTrips SU_TR 2.12 0.00 tblVehicleTrips WD_TR 3.93 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblWater IndoorWaterUseRate 29,368,750.00 105,120,000.00	tblVehicleEF	UBUS	2.2650e-003	0.04
tblVehicleTrips ST_TR 2.12 0.00 tblVehicleTrips SU_TR 5.09 0.00 tblVehicleTrips SU_TR 2.12 0.00 tblVehicleTrips WD_TR 3.93 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblWater IndoorWaterUseRate 29,368,750.00 105,120,000.00	tblVehicleEF	UBUS	0.11	1.49
tblVehicleTrips SU_TR 5.09 0.00 tblVehicleTrips SU_TR 2.12 0.00 tblVehicleTrips WD_TR 3.93 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblWater IndoorWaterUseRate 29,368,750.00 105,120,000.00	tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips SU_TR 2.12 0.00 tblVehicleTrips WD_TR 3.93 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblWater IndoorWaterUseRate 29,368,750.00 105,120,000.00	tblVehicleTrips	ST_TR	2.12	0.00
tblVehicleTrips WD_TR 3.93 0.00 tblVehicleTrips WD_TR 2.12 0.00 tblWater IndoorWaterUseRate 29,368,750.00 105,120,000.00	tblVehicleTrips	SU_TR	5.09	0.00
tblVehicleTrips WD_TR 2.12 0.00 tblWater IndoorWaterUseRate 29,368,750.00 105,120,000.00	tblVehicleTrips	SU_TR	2.12	0.00
tblWater IndoorWaterUseRate 29,368,750.00 105,120,000.00	tblVehicleTrips	WD_TR	3.93	0.00
ļ	tblVehicleTrips	WD_TR	2.12	0.00
tblWater IndoorWaterUseRate 9,018,750.00 0.00	tblWater	IndoorWaterUseRate	29,368,750.00	105,120,000.00
	tblWater	IndoorWaterUseRate	9,018,750.00	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					ton	s/yr							MT	/yr		
2021	1.0319	6.2239	4.2246	0.0110	1.2138	0.2693	1.4831	0.5415	0.2500	0.7916	0.0000	992.5610	992.5610	0.1722	0.0552	1,013.310 6
2022	0.8113	0.2762	0.3881	6.4000e- 004	8.3700e- 003	0.0142	0.0226	2.2200e- 003	0.0132	0.0154	0.0000	56.2570	56.2570	0.0148	2.2000e- 004	56.6930
Maximum	1.0319	6.2239	4.2246	0.0110	1.2138	0.2693	1.4831	0.5415	0.2500	0.7916	0.0000	992.5610	992.5610	0.1722	0.0552	1,013.310 6

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					ton	s/yr							MT	/yr		
2021	1.0319	6.2239	4.2246	0.0110	0.6581	0.2693	0.9274	0.2741	0.2500	0.5242	0.0000	992.5603	992.5603	0.1722	0.0552	1,013.309 9
2022	0.8113	0.2762	0.3881	6.4000e- 004	8.3700e- 003	0.0142	0.0226	2.2200e- 003	0.0132	0.0154	0.0000	56.2569	56.2569	0.0148	2.2000e- 004	56.6930
Maximum	1.0319	6.2239	4.2246	0.0110	0.6581	0.2693	0.9274	0.2741	0.2500	0.5242	0.0000	992.5603	992.5603	0.1722	0.0552	1,013.309 9

	ROG	NOx	СО	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	45.47	0.00	36.91	49.18	0.00	33.13	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-8-2021	5-7-2021	4.8123	4.8123
2	5-8-2021	8-7-2021	1.0184	1.0184
3	8-8-2021	11-7-2021	0.8287	0.8287
4	11-8-2021	2-7-2022	0.9936	0.9936
5	2-8-2022	5-7-2022	0.4632	0.4632
6	5-8-2022	8-7-2022	0.1128	0.1128
		Highest	4.8123	4.8123

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Area	0.7852	3.0000e- 005	3.8000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste	1					0.0000	0.0000		0.0000	0.0000	14.5057	0.0000	14.5057	0.8573	0.0000	35.9373
Water	1					0.0000	0.0000		0.0000	0.0000	33.3497	57.4939	90.8436	3.4339	0.0819	201.0996
Total	0.7852	3.0000e- 005	3.8000e- 003	0.0000	0.0000	1.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005	1.0000e- 005	47.8555	57.5013	105.3567	4.2911	0.0819	237.0448

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr					MT/yr					
Area	0.7852	3.0000e- 005	3.8000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste	ii					0.0000	0.0000		0.0000	0.0000	14.5057	0.0000	14.5057	0.8573	0.0000	35.9373
Water	ii 		,			0.0000	0.0000		0.0000	0.0000	33.3497	57.4939	90.8436	3.4339	0.0819	201.0996
Total	0.7852	3.0000e- 005	3.8000e- 003	0.0000	0.0000	1.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005	1.0000e- 005	47.8555	57.5013	105.3567	4.2911	0.0819	237.0448

	ROG	NOx	СО	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/8/2021	5/7/2021	5	65	
2	Site Preparation	Site Preparation	2/8/2021	5/14/2021	5	70	
3	Grading	Grading	2/8/2021	5/14/2021	5	70	

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		Building Construction	5/18/2021	11/9/2021	5	126	
5	Architectural Coating	Architectural Coating	12/1/2021	2/28/2022	5	64	
6	Paving	Paving	4/1/2022	6/1/2022	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 5.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 249,000; Non-Residential Outdoor: 83,000; Striped Parking Area: 14,830

(Architectural Coating - sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

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
Demolition	6	15.00	0.00	965.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	7,200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	174.00	68.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	35.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					0.1044	0.0000	0.1044	0.0158	0.0000	0.0158	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1029	1.0218	0.7009	1.2600e- 003		0.0504	0.0504		0.0468	0.0468	0.0000	110.5026	110.5026	0.0311	0.0000	111.2801
Total	0.1029	1.0218	0.7009	1.2600e- 003	0.1044	0.0504	0.1548	0.0158	0.0468	0.0627	0.0000	110.5026	110.5026	0.0311	0.0000	111.2801

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3.2 Demolition - 2021
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	2.8900e- 003	0.0856	0.0167	3.0000e- 004	8.2400e- 003	1.2700e- 003	9.5100e- 003	2.2700e- 003	1.2100e- 003	3.4800e- 003	0.0000	29.2242	29.2242	2.2000e- 004	4.6000e- 003	30.5995
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	1.9100e- 003	1.3700e- 003	0.0155	4.0000e- 005	3.9000e- 003	2.0000e- 005	3.9200e- 003	1.0400e- 003	2.0000e- 005	1.0600e- 003	0.0000	3.3447	3.3447	1.3000e- 004	1.1000e- 004	3.3812
Total	4.8000e- 003	0.0870	0.0321	3.4000e- 004	0.0121	1.2900e- 003	0.0134	3.3100e- 003	1.2300e- 003	4.5400e- 003	0.0000	32.5689	32.5689	3.5000e- 004	4.7100e- 003	33.9806

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	⁻/yr		
Fugitive Dust	 				0.0470	0.0000	0.0470	7.1100e- 003	0.0000	7.1100e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1029	1.0218	0.7009	1.2600e- 003		0.0504	0.0504] 	0.0468	0.0468	0.0000	110.5024	110.5024	0.0311	0.0000	111.2800
Total	0.1029	1.0218	0.7009	1.2600e- 003	0.0470	0.0504	0.0974	7.1100e- 003	0.0468	0.0540	0.0000	110.5024	110.5024	0.0311	0.0000	111.2800

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3.2 Demolition - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	2.8900e- 003	0.0856	0.0167	3.0000e- 004	8.2400e- 003	1.2700e- 003	9.5100e- 003	2.2700e- 003	1.2100e- 003	3.4800e- 003	0.0000	29.2242	29.2242	2.2000e- 004	4.6000e- 003	30.5995
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	1.9100e- 003	1.3700e- 003	0.0155	4.0000e- 005	3.9000e- 003	2.0000e- 005	3.9200e- 003	1.0400e- 003	2.0000e- 005	1.0600e- 003	0.0000	3.3447	3.3447	1.3000e- 004	1.1000e- 004	3.3812
Total	4.8000e- 003	0.0870	0.0321	3.4000e- 004	0.0121	1.2900e- 003	0.0134	3.3100e- 003	1.2300e- 003	4.5400e- 003	0.0000	32.5689	32.5689	3.5000e- 004	4.7100e- 003	33.9806

3.3 Site Preparation - 2021

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					ton	s/yr							МТ	/yr		
Fugitive Dust					0.6323	0.0000	0.6323	0.3476	0.0000	0.3476	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1361	1.4174	0.7404	1.3300e- 003		0.0716	0.0716		0.0658	0.0658	0.0000	117.0250	117.0250	0.0379	0.0000	117.9712
Total	0.1361	1.4174	0.7404	1.3300e- 003	0.6323	0.0716	0.7039	0.3476	0.0658	0.4134	0.0000	117.0250	117.0250	0.0379	0.0000	117.9712

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3.3 Site Preparation - 2021

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					ton	s/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	2.4600e- 003	1.7700e- 003	0.0200	5.0000e- 005	5.0300e- 003	3.0000e- 005	5.0700e- 003	1.3400e- 003	3.0000e- 005	1.3700e- 003	0.0000	4.3224	4.3224	1.7000e- 004	1.4000e- 004	4.3695
Total	2.4600e- 003	1.7700e- 003	0.0200	5.0000e- 005	5.0300e- 003	3.0000e- 005	5.0700e- 003	1.3400e- 003	3.0000e- 005	1.3700e- 003	0.0000	4.3224	4.3224	1.7000e- 004	1.4000e- 004	4.3695

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					ton	s/yr							МТ	/yr		
Fugitive Dust					0.2845	0.0000	0.2845	0.1564	0.0000	0.1564	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1361	1.4174	0.7404	1.3300e- 003		0.0716	0.0716		0.0658	0.0658	0.0000	117.0249	117.0249	0.0379	0.0000	117.9711
Total	0.1361	1.4174	0.7404	1.3300e- 003	0.2845	0.0716	0.3561	0.1564	0.0658	0.2222	0.0000	117.0249	117.0249	0.0379	0.0000	117.9711

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3.3 Site Preparation - 2021

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					ton	s/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	2.4600e- 003	1.7700e- 003	0.0200	5.0000e- 005	5.0300e- 003	3.0000e- 005	5.0700e- 003	1.3400e- 003	3.0000e- 005	1.3700e- 003	0.0000	4.3224	4.3224	1.7000e- 004	1.4000e- 004	4.3695
Total	2.4600e- 003	1.7700e- 003	0.0200	5.0000e- 005	5.0300e- 003	3.0000e- 005	5.0700e- 003	1.3400e- 003	3.0000e- 005	1.3700e- 003	0.0000	4.3224	4.3224	1.7000e- 004	1.4000e- 004	4.3695

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					0.2737	0.0000	0.2737	0.1228	0.0000	0.1228	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1467	1.6240	1.0808	2.1700e- 003		0.0695	0.0695		0.0639	0.0639	0.0000	190.7324	190.7324	0.0617	0.0000	192.2746
Total	0.1467	1.6240	1.0808	2.1700e- 003	0.2737	0.0695	0.3432	0.1228	0.0639	0.1867	0.0000	190.7324	190.7324	0.0617	0.0000	192.2746

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3.4 Grading - 2021
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					ton	s/yr							MT	/yr		
Hauling	0.0216	0.6389	0.1243	2.2700e- 003	0.0615	9.4700e- 003	0.0710	0.0169	9.0600e- 003	0.0260	0.0000	218.0460	218.0460	1.6600e- 003	0.0343	228.3070
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	2.7400e- 003	1.9700e- 003	0.0222	5.0000e- 005	5.5900e- 003	4.0000e- 005	5.6300e- 003	1.4900e- 003	3.0000e- 005	1.5200e- 003	0.0000	4.8026	4.8026	1.9000e- 004	1.6000e- 004	4.8550
Total	0.0243	0.6408	0.1465	2.3200e- 003	0.0671	9.5100e- 003	0.0766	0.0184	9.0900e- 003	0.0275	0.0000	222.8486	222.8486	1.8500e- 003	0.0345	233.1620

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust	11 11				0.1232	0.0000	0.1232	0.0553	0.0000	0.0553	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1467	1.6240	1.0807	2.1700e- 003		0.0695	0.0695		0.0639	0.0639	0.0000	190.7322	190.7322	0.0617	0.0000	192.2744
Total	0.1467	1.6240	1.0807	2.1700e- 003	0.1232	0.0695	0.1927	0.0553	0.0639	0.1192	0.0000	190.7322	190.7322	0.0617	0.0000	192.2744

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3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0216	0.6389	0.1243	2.2700e- 003	0.0615	9.4700e- 003	0.0710	0.0169	9.0600e- 003	0.0260	0.0000	218.0460	218.0460	1.6600e- 003	0.0343	228.3070
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	2.7400e- 003	1.9700e- 003	0.0222	5.0000e- 005	5.5900e- 003	4.0000e- 005	5.6300e- 003	1.4900e- 003	3.0000e- 005	1.5200e- 003	0.0000	4.8026	4.8026	1.9000e- 004	1.6000e- 004	4.8550
Total	0.0243	0.6408	0.1465	2.3200e- 003	0.0671	9.5100e- 003	0.0766	0.0184	9.0900e- 003	0.0275	0.0000	222.8486	222.8486	1.8500e- 003	0.0345	233.1620

3.5 Building Construction - 2021

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					ton	s/yr							MT	/yr		
Off-Road	0.1198	1.0982	1.0442	1.7000e- 003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9315	145.9315	0.0352	0.0000	146.8117
Total	0.1198	1.0982	1.0442	1.7000e- 003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9315	145.9315	0.0352	0.0000	146.8117

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3.5 Building Construction - 2021 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/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	0.0146	0.2833	0.0779	9.1000e- 004	0.0284	4.9000e- 003	0.0333	8.2000e- 003	4.6900e- 003	0.0129	0.0000	87.7226	87.7226	8.1000e- 004	0.0133	91.6990
Worker	0.0429	0.0309	0.3481	8.2000e- 004	0.0876	5.6000e- 004	0.0882	0.0233	5.2000e- 004	0.0238	0.0000	75.2093	75.2093	2.9100e- 003	2.5100e- 003	76.0291
Total	0.0575	0.3142	0.4260	1.7300e- 003	0.1160	5.4600e- 003	0.1214	0.0315	5.2100e- 003	0.0367	0.0000	162.9318	162.9318	3.7200e- 003	0.0158	167.7281

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					ton	s/yr							MT	/yr		
Off-Road	0.1198	1.0982	1.0442	1.7000e- 003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9313	145.9313	0.0352	0.0000	146.8115
Total	0.1198	1.0982	1.0442	1.7000e- 003		0.0604	0.0604		0.0568	0.0568	0.0000	145.9313	145.9313	0.0352	0.0000	146.8115

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3.5 Building Construction - 2021 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	0.0146	0.2833	0.0779	9.1000e- 004	0.0284	4.9000e- 003	0.0333	8.2000e- 003	4.6900e- 003	0.0129	0.0000	87.7226	87.7226	8.1000e- 004	0.0133	91.6990
Worker	0.0429	0.0309	0.3481	8.2000e- 004	0.0876	5.6000e- 004	0.0882	0.0233	5.2000e- 004	0.0238	0.0000	75.2093	75.2093	2.9100e- 003	2.5100e- 003	76.0291
Total	0.0575	0.3142	0.4260	1.7300e- 003	0.1160	5.4600e- 003	0.1214	0.0315	5.2100e- 003	0.0367	0.0000	162.9318	162.9318	3.7200e- 003	0.0158	167.7281

3.6 Architectural Coating - 2021 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					ton	s/yr							MT	/yr		
Archit. Coating	0.4333					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5200e- 003	0.0176	0.0209	3.0000e- 005		1.0800e- 003	1.0800e- 003	i i	1.0800e- 003	1.0800e- 003	0.0000	2.9362	2.9362	2.0000e- 004	0.0000	2.9413
Total	0.4358	0.0176	0.0209	3.0000e- 005		1.0800e- 003	1.0800e- 003		1.0800e- 003	1.0800e- 003	0.0000	2.9362	2.9362	2.0000e- 004	0.0000	2.9413

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3.6 Architectural Coating - 2021 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					ton	s/yr					МТ	/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	1.5700e- 003	1.1300e- 003	0.0128	3.0000e- 005	3.2200e- 003	2.0000e- 005	3.2400e- 003	8.5000e- 004	2.0000e- 005	8.7000e- 004	0.0000	2.7615	2.7615	1.1000e- 004	9.0000e- 005	2.7916
Total	1.5700e- 003	1.1300e- 003	0.0128	3.0000e- 005	3.2200e- 003	2.0000e- 005	3.2400e- 003	8.5000e- 004	2.0000e- 005	8.7000e- 004	0.0000	2.7615	2.7615	1.1000e- 004	9.0000e- 005	2.7916

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					ton	s/yr							MT	/yr		
Archit. Coating	0.4333					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	2.5200e- 003	0.0176	0.0209	3.0000e- 005	 	1.0800e- 003	1.0800e- 003		1.0800e- 003	1.0800e- 003	0.0000	2.9362	2.9362	2.0000e- 004	0.0000	2.9413
Total	0.4358	0.0176	0.0209	3.0000e- 005		1.0800e- 003	1.0800e- 003		1.0800e- 003	1.0800e- 003	0.0000	2.9362	2.9362	2.0000e- 004	0.0000	2.9413

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3.6 Architectural Coating - 2021 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/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	1.5700e- 003	1.1300e- 003	0.0128	3.0000e- 005	3.2200e- 003	2.0000e- 005	3.2400e- 003	8.5000e- 004	2.0000e- 005	8.7000e- 004	0.0000	2.7615	2.7615	1.1000e- 004	9.0000e- 005	2.7916
Total	1.5700e- 003	1.1300e- 003	0.0128	3.0000e- 005	3.2200e- 003	2.0000e- 005	3.2400e- 003	8.5000e- 004	2.0000e- 005	8.7000e- 004	0.0000	2.7615	2.7615	1.1000e- 004	9.0000e- 005	2.7916

3.6 Architectural Coating - 2022 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	0.7724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1900e- 003	0.0289	0.0372	6.0000e- 005		1.6800e- 003	1.6800e- 003		1.6800e- 003	1.6800e- 003	0.0000	5.2342	5.2342	3.4000e- 004	0.0000	5.2427
Total	0.7766	0.0289	0.0372	6.0000e- 005		1.6800e- 003	1.6800e- 003		1.6800e- 003	1.6800e- 003	0.0000	5.2342	5.2342	3.4000e- 004	0.0000	5.2427

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3.6 Architectural Coating - 2022 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/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	2.5700e- 003	1.7600e- 003	0.0206	5.0000e- 005	5.7300e- 003	3.0000e- 005	5.7700e- 003	1.5200e- 003	3.0000e- 005	1.5600e- 003	0.0000	4.7689	4.7689	1.7000e- 004	1.5000e- 004	4.8177
Total	2.5700e- 003	1.7600e- 003	0.0206	5.0000e- 005	5.7300e- 003	3.0000e- 005	5.7700e- 003	1.5200e- 003	3.0000e- 005	1.5600e- 003	0.0000	4.7689	4.7689	1.7000e- 004	1.5000e- 004	4.8177

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					ton	s/yr							МТ	/yr		
Archit. Coating	0.7724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	4.1900e- 003	0.0289	0.0372	6.0000e- 005		1.6800e- 003	1.6800e- 003	 	1.6800e- 003	1.6800e- 003	0.0000	5.2342	5.2342	3.4000e- 004	0.0000	5.2427
Total	0.7766	0.0289	0.0372	6.0000e- 005		1.6800e- 003	1.6800e- 003		1.6800e- 003	1.6800e- 003	0.0000	5.2342	5.2342	3.4000e- 004	0.0000	5.2427

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3.6 Architectural Coating - 2022 Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/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	2.5700e- 003	1.7600e- 003	0.0206	5.0000e- 005	5.7300e- 003	3.0000e- 005	5.7700e- 003	1.5200e- 003	3.0000e- 005	1.5600e- 003	0.0000	4.7689	4.7689	1.7000e- 004	1.5000e- 004	4.8177
Total	2.5700e- 003	1.7600e- 003	0.0206	5.0000e- 005	5.7300e- 003	3.0000e- 005	5.7700e- 003	1.5200e- 003	3.0000e- 005	1.5600e- 003	0.0000	4.7689	4.7689	1.7000e- 004	1.5000e- 004	4.8177

3.7 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0243	0.2448	0.3208	5.0000e- 004		0.0125	0.0125		0.0115	0.0115	0.0000	44.0606	44.0606	0.0143	0.0000	44.4169
Paving	6.7100e- 003		 	i	 	0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0310	0.2448	0.3208	5.0000e- 004		0.0125	0.0125		0.0115	0.0115	0.0000	44.0606	44.0606	0.0143	0.0000	44.4169

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3.7 Paving - 2022
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					ton	s/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
I Worker	1.1800e- 003	8.1000e- 004	9.4900e- 003	2.0000e- 005	2.6400e- 003	2.0000e- 005	2.6500e- 003	7.0000e- 004	1.0000e- 005	7.2000e- 004	0.0000	2.1933	2.1933	8.0000e- 005	7.0000e- 005	2.2158
Total	1.1800e- 003	8.1000e- 004	9.4900e- 003	2.0000e- 005	2.6400e- 003	2.0000e- 005	2.6500e- 003	7.0000e- 004	1.0000e- 005	7.2000e- 004	0.0000	2.1933	2.1933	8.0000e- 005	7.0000e- 005	2.2158

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0243	0.2448	0.3208	5.0000e- 004		0.0125	0.0125		0.0115	0.0115	0.0000	44.0606	44.0606	0.0143	0.0000	44.4168
	6.7100e- 003		i i			0.0000	0.0000	i i	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0310	0.2448	0.3208	5.0000e- 004		0.0125	0.0125		0.0115	0.0115	0.0000	44.0606	44.0606	0.0143	0.0000	44.4168

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3.7 Paving - 2022

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					ton	s/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	1.1800e- 003	8.1000e- 004	9.4900e- 003	2.0000e- 005	2.6400e- 003	2.0000e- 005	2.6500e- 003	7.0000e- 004	1.0000e- 005	7.2000e- 004	0.0000	2.1933	2.1933	8.0000e- 005	7.0000e- 005	2.2158
Total	1.1800e- 003	8.1000e- 004	9.4900e- 003	2.0000e- 005	2.6400e- 003	2.0000e- 005	2.6500e- 003	7.0000e- 004	1.0000e- 005	7.2000e- 004	0.0000	2.1933	2.1933	8.0000e- 005	7.0000e- 005	2.2158

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Ave	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	МН
Manufacturing	0.516452	0.033212	0.173817	0.123150	0.022816	0.005352	0.027555	0.088301	0.001837	0.001119	0.004633	0.000845	0.000911
Other Asphalt Surfaces	0.516452	0.033212	0.173817	0.123150	0.022816	0.005352	0.027555	0.088301	0.001837	0.001119	0.004633	0.000845	0.000911
Other Non-Asphalt Surfaces	0.516452	0.033212	0.173817	0.123150	0.022816	0.005352	0.027555	0.088301	0.001837	0.001119	0.004633	0.000845	0.000911
Refrigerated Warehouse-Rail	0.516452	0.033212	0.173817	0.123150	0.022816	0.005352	0.027555	0.088301	0.001837	0.001119	0.004633	0.000845	0.000911

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated	,					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

<u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	⁻ /yr		
Manufacturing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	 	0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	 	0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	⁻ /yr		
Manufacturing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	 	0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity <u>Unmitigated</u>

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	/yr	
Manufacturing	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e			
Land Use	kWh/yr	MT/yr						
Manufacturing	0	0.0000	0.0000	0.0000	0.0000			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000			
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000			
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000			
Total		0.0000	0.0000	0.0000	0.0000			

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr								MT	/yr						
Mitigated	0.7852	3.0000e- 005	3.8000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003
Unmitigated	0.7852	3.0000e- 005	3.8000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr						MT/yr									
Coating	0.1206					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.6643				 	0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
' "	3.5000e- 004	3.0000e- 005	3.8000e- 003	0.0000	 	1.0000e- 005	1.0000e- 005	 	1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003
Total	0.7852	3.0000e- 005	3.8000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr						MT/yr									
Coating	0.1206					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.6643					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.5000e- 004	3.0000e- 005	3.8000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003
Total	0.7852	3.0000e- 005	3.8000e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	7.3800e- 003	7.3800e- 003	2.0000e- 005	0.0000	7.8700e- 003

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e					
Category		MT/yr							
		3.4339	0.0819	201.0996					
Unmitigated	90.8436	3.4339	0.0819	201.0996					

7.2 Water by Land Use <u>Unmitigated</u>

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		MT	/yr	
Manufacturing	105.12 / 0	90.8436	3.4339	0.0819	201.0996
Other Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0/0	0.0000	0.0000	0.0000	0.0000
Total		90.8436	3.4339	0.0819	201.0996

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		МТ	/yr	
Manufacturing	105.12 / 0	90.8436	3.4339	0.0819	201.0996
Other Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0/0	0.0000	0.0000	0.0000	0.0000
Total		90.8436	3.4339	0.0819	201.0996

8.0 Waste Detail

8.1 Mitigation Measures Waste

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e				
	MT/yr							
ga.oa	14.5057	0.8573	0.0000	35.9373				
Unmitigated	14.5057	0.8573	0.0000	35.9373				

8.2 Waste by Land Use <u>Unmitigated</u>

	Waste Disposed	Total CO2	CH4	N2O	CO2e			
Land Use	tons	MT/yr						
Manufacturing	71.46	14.5057	0.8573	0.0000	35.9373			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000			
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000			
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000			
Total		14.5057	0.8573	0.0000	35.9373			

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e			
Land Use	tons	MT/yr						
Manufacturing	71.46	14.5057	0.8573	0.0000	35.9373			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000			
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000			
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000			
Total		14.5057	0.8573	0.0000	35.9373			

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type Number Hours/Day Hours/Year Horse Power Load Factor Fuel Type	١	Environment Tons	Niconale e u	Harra/Darr	Harris Maan	Haras Damer	Land Faster	Final Time
		Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type Number

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Frito Modesto Expansion - Phase I to Phase III Incremental

Stanislaus County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	62.00	1000sqft	1.42	62,000.00	0
Refrigerated Warehouse-Rail	27.00	1000sqft	0.62	27,000.00	0
Other Asphalt Surfaces	61.54	1000sqft	1.41	61,537.00	0
Other Non-Asphalt Surfaces	10.88	1000sqft	0.25	10,875.00	0

1.2 Other Project Characteristics

UrbanizationUrbanWind Speed (m/s)2.2Precipitation Freq (Days)46Climate Zone3Operational Year2023

Utility Company Modesto Irrigation District

 CO2 Intensity
 452.98
 CH4 Intensity
 0.033
 N2O Intensity
 0.004

 (lb/MWhr)
 (lb/MWhr)
 (lb/MWhr)
 (lb/MWhr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Obtained from facility.

Construction Phase - Based on construction schedule provided by the facility.

Trips and VMT -

Demolition -

Grading - Data from client.

Architectural Coating -

Vehicle Trips - Only modeling construction emissions.

Consumer Products - Only modeling construction emissions.

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Area Coating - Only modeling construction emissions.

Energy Use - Only modeling construction emissions.

Water And Wastewater - Only modeling construction emissions.

Solid Waste - Only modeling construction emissions.

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	44500	0
tblAreaCoating	Area_Nonresidential_Interior	133500	0
tblAreaCoating	Area_Parking	4345	0
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	NumDays	8.00	20.00
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	NumDays	5.00	10.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	2.70	0.00
tblEnergyUse	LightingElect	2.45	0.00
tblEnergyUse	NT24E	4.16	0.00
tblEnergyUse	NT24E	21.99	0.00
tblEnergyUse	NT24NG	3.84	0.00
tblEnergyUse	T24E	1.75	0.00
tblEnergyUse	T24E	0.42	0.00
tblEnergyUse	T24NG	16.86	0.00
tblEnergyUse	T24NG	0.15	0.00
tblGrading	MaterialExported	0.00	32,936.00
tblGrading	MaterialImported	0.00	15,432.00
tblLandUse	LandUseSquareFeet	61,540.00	61,537.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	10,880.00	10,875.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblSolidWaste	SolidWasteGenerationRate	76.88	0.00
tblSolidWaste	SolidWasteGenerationRate	25.38	0.00
tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips	ST_TR	2.12	0.00
tblVehicleTrips	SU_TR	5.09	0.00
tblVehicleTrips	SU_TR	2.12	0.00
tblVehicleTrips	WD_TR	3.93	0.00
tblVehicleTrips	WD_TR	2.12	0.00
tblWater	IndoorWaterUseRate	14,337,500.00	0.00
tblWater	IndoorWaterUseRate	6,243,750.00	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					ton	s/yr							MT	/yr		
2022	0.3464	3.4761	3.0737	7.8100e- 003	0.3621	0.1482	0.5103	0.1313	0.1388	0.2701	0.0000	704.6793	704.6793	0.1068	0.0409	719.5269
2023	0.6363	0.0133	0.0218	4.0000e- 005	1.1200e- 003	7.1000e- 004	1.8300e- 003	3.0000e- 004	7.1000e- 004	1.0100e- 003	0.0000	3.4537	3.4537	1.8000e- 004	3.0000e- 005	3.4662
Maximum	0.6363	3.4761	3.0737	7.8100e- 003	0.3621	0.1482	0.5103	0.1313	0.1388	0.2701	0.0000	704.6793	704.6793	0.1068	0.0409	719.5269

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					ton	s/yr							MT	/yr		
2022	0.3464	3.4761	3.0737	7.8100e- 003	0.2417	0.1482	0.3899	0.0806	0.1388	0.2193	0.0000	704.6788	704.6788	0.1068	0.0409	719.5264
2023	0.6363	0.0133	0.0218	4.0000e- 005	1.1200e- 003	7.1000e- 004	1.8300e- 003	3.0000e- 004	7.1000e- 004	1.0100e- 003	0.0000	3.4537	3.4537	1.8000e- 004	3.0000e- 005	3.4662
Maximum	0.6363	3.4761	3.0737	7.8100e- 003	0.2417	0.1482	0.3899	0.0806	0.1388	0.2193	0.0000	704.6788	704.6788	0.1068	0.0409	719.5264

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	СО	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	33.16	0.00	23.51	38.57	0.00	18.73	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2022	3-31-2022	1.5069	1.5069
2	4-1-2022	6-30-2022	0.8062	0.8062
3	7-1-2022	9-30-2022	1.1537	1.1537
4	10-1-2022	12-31-2022	0.6262	0.6262
5	1-1-2023	3-31-2023	0.6032	0.6032
		Highest	1.5069	1.5069

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					ton	s/yr							MT	/yr		
Area	1.4000e- 004	1.0000e- 005	1.4800e- 003	0.0000	! !	1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste	n				 - 	0.0000	0.0000	 - 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water	n		,			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.4000e- 004	1.0000e- 005	1.4800e- 003	0.0000	0.0000	1.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Area	1.4000e- 004	1.0000e- 005	1.4800e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste			,			0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water			,			0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.4000e- 004	1.0000e- 005	1.4800e- 003	0.0000	0.0000	1.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003

	ROG	NOx	СО	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition Paving/Underground	Demolition	1/3/2022	1/28/2022	5	20	
2	Site Preparation	Site Preparation	2/1/2022	2/14/2022	5	10	
3	Grading	Grading	2/1/2022	2/28/2022	5	20	

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4	Building Construction	Building Construction	2/14/2022	12/30/2022	5	230	
5	Demolition Precast	Demolition	6/13/2022	7/8/2022	5	20	
6	Paving	Paving	9/1/2022	9/28/2022	5	20	
7	Architectural Coating	Architectural Coating	1/2/2023	1/27/2023	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 1.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 133,500; Non-Residential Outdoor: 44,500; Striped Parking Area: 4,345 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition Paving/Underground	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition Paving/Underground	Excavators	3	8.00	158	0.38
Demolition Paving/Underground	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Demolition Precast	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition Precast	Excavators	3	8.00	158	0.38

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Demolition Precast	Rubber Tired Dozers	2	8.00	247	0.40
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition Paying/Underground	6	15.00	0.00	435.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	6,046.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	68.00	26.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition Precast	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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3.2 Demolition Paving/Underground - 2022

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					ton	s/yr							MT	/yr		
Fugitive Dust					0.0471	0.0000	0.0471	7.1300e- 003	0.0000	7.1300e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e- 004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e- 003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e- 004	0.0471	0.0124	0.0596	7.1300e- 003	0.0116	0.0187	0.0000	33.9902	33.9902	9.5500e- 003	0.0000	34.2289

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	√yr		
I lading	8.3000e- 004	0.0333	6.2600e- 003	1.3000e- 004	3.7200e- 003	3.3000e- 004	4.0500e- 003	1.0200e- 003	3.2000e- 004	1.3400e- 003	0.0000	12.8311	12.8311	8.0000e- 005	2.0200e- 003	13.4344
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
	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072
Total	1.3700e- 003	0.0336	0.0106	1.4000e- 004	4.9200e- 003	3.4000e- 004	5.2600e- 003	1.3400e- 003	3.3000e- 004	1.6700e- 003	0.0000	13.8280	13.8280	1.2000e- 004	2.0500e- 003	14.4416

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3.2 Demolition Paving/Underground - 2022

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					ton	s/yr							MT	/yr		
Fugitive Dust					0.0212	0.0000	0.0212	3.2100e- 003	0.0000	3.2100e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e- 004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e- 003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e- 004	0.0212	0.0124	0.0336	3.2100e- 003	0.0116	0.0148	0.0000	33.9902	33.9902	9.5500e- 003	0.0000	34.2289

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	8.3000e- 004	0.0333	6.2600e- 003	1.3000e- 004	3.7200e- 003	3.3000e- 004	4.0500e- 003	1.0200e- 003	3.2000e- 004	1.3400e- 003	0.0000	12.8311	12.8311	8.0000e- 005	2.0200e- 003	13.4344
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	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072
Total	1.3700e- 003	0.0336	0.0106	1.4000e- 004	4.9200e- 003	3.4000e- 004	5.2600e- 003	1.3400e- 003	3.3000e- 004	1.6700e- 003	0.0000	13.8280	13.8280	1.2000e- 004	2.0500e- 003	14.4416

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3.3 Site Preparation - 2022

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					ton	s/yr							MT	/yr		
Fugitive Dust	 				0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e- 004		8.0600e- 003	8.0600e- 003		7.4200e- 003	7.4200e- 003	0.0000	16.7197	16.7197	5.4100e- 003	0.0000	16.8549
Total	0.0159	0.1654	0.0985	1.9000e- 004	0.0983	8.0600e- 003	0.1064	0.0505	7.4200e- 003	0.0579	0.0000	16.7197	16.7197	5.4100e- 003	0.0000	16.8549

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/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
VVOINCI	3.2000e- 004	2.2000e- 004	2.5900e- 003	1.0000e- 005	7.2000e- 004	0.0000	7.2000e- 004	1.9000e- 004	0.0000	2.0000e- 004	0.0000	0.5982	0.5982	2.0000e- 005	2.0000e- 005	0.6043
Total	3.2000e- 004	2.2000e- 004	2.5900e- 003	1.0000e- 005	7.2000e- 004	0.0000	7.2000e- 004	1.9000e- 004	0.0000	2.0000e- 004	0.0000	0.5982	0.5982	2.0000e- 005	2.0000e- 005	0.6043

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3.3 Site Preparation - 2022

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					ton	s/yr							MT	/yr		
Fugitive Dust	11 11 11				0.0442	0.0000	0.0442	0.0227	0.0000	0.0227	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e- 004		8.0600e- 003	8.0600e- 003		7.4200e- 003	7.4200e- 003	0.0000	16.7197	16.7197	5.4100e- 003	0.0000	16.8549
Total	0.0159	0.1654	0.0985	1.9000e- 004	0.0442	8.0600e- 003	0.0523	0.0227	7.4200e- 003	0.0302	0.0000	16.7197	16.7197	5.4100e- 003	0.0000	16.8549

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	3.2000e- 004	2.2000e- 004	2.5900e- 003	1.0000e- 005	7.2000e- 004	0.0000	7.2000e- 004	1.9000e- 004	0.0000	2.0000e- 004	0.0000	0.5982	0.5982	2.0000e- 005	2.0000e- 005	0.6043	
Total	3.2000e- 004	2.2000e- 004	2.5900e- 003	1.0000e- 005	7.2000e- 004	0.0000	7.2000e- 004	1.9000e- 004	0.0000	2.0000e- 004	0.0000	0.5982	0.5982	2.0000e- 005	2.0000e- 005	0.6043	

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3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0736	0.0000	0.0736	0.0347	0.0000	0.0347	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
Off-Road	0.0195	0.2086	0.1527	3.0000e- 004		9.4100e- 003	9.4100e- 003		8.6600e- 003	8.6600e- 003	0.0000	26.0548	26.0548	8.4300e- 003	0.0000	26.2654			
Total	0.0195	0.2086	0.1527	3.0000e- 004	0.0736	9.4100e- 003	0.0830	0.0347	8.6600e- 003	0.0433	0.0000	26.0548	26.0548	8.4300e- 003	0.0000	26.2654			

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0116	0.4625	0.0870	1.8500e- 003	0.0516	4.6500e- 003	0.0563	0.0142	4.4400e- 003	0.0186	0.0000	178.3371	178.3371	1.0900e- 003	0.0281	186.7224			
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	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072			
Total	0.0121	0.4628	0.0914	1.8600e- 003	0.0528	4.6600e- 003	0.0575	0.0145	4.4500e- 003	0.0190	0.0000	179.3340	179.3340	1.1300e- 003	0.0281	187.7296			

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3.4 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0331	0.0000	0.0331	0.0156	0.0000	0.0156	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0195	0.2086	0.1527	3.0000e- 004		9.4100e- 003	9.4100e- 003		8.6600e- 003	8.6600e- 003	0.0000	26.0547	26.0547	8.4300e- 003	0.0000	26.2654	
Total	0.0195	0.2086	0.1527	3.0000e- 004	0.0331	9.4100e- 003	0.0425	0.0156	8.6600e- 003	0.0243	0.0000	26.0547	26.0547	8.4300e- 003	0.0000	26.2654	

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	0.0116	0.4625	0.0870	1.8500e- 003	0.0516	4.6500e- 003	0.0563	0.0142	4.4400e- 003	0.0186	0.0000	178.3371	178.3371	1.0900e- 003	0.0281	186.7224	
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	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072	
Total	0.0121	0.4628	0.0914	1.8600e- 003	0.0528	4.6600e- 003	0.0575	0.0145	4.4500e- 003	0.0190	0.0000	179.3340	179.3340	1.1300e- 003	0.0281	187.7296	

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3.5 Building Construction - 2022 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
	0.1962	1.7958	1.8818	3.1000e- 003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4840	266.4840	0.0638	0.0000	268.0801
Total	0.1962	1.7958	1.8818	3.1000e- 003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4840	266.4840	0.0638	0.0000	268.0801

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					ton	s/yr							МТ	/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
	6.2700e- 003	0.1641	0.0450	6.2000e- 004	0.0198	1.7900e- 003	0.0216	5.7200e- 003	1.7100e- 003	7.4300e- 003	0.0000	59.6830	59.6830	3.9000e- 004	9.0200e- 003	62.3819
Worker	0.0280	0.0191	0.2249	5.7000e- 004	0.0625	3.8000e- 004	0.0629	0.0166	3.5000e- 004	0.0170	0.0000	51.9755	51.9755	1.8500e- 003	1.6300e- 003	52.5075
Total	0.0343	0.1833	0.2699	1.1900e- 003	0.0823	2.1700e- 003	0.0845	0.0223	2.0600e- 003	0.0244	0.0000	111.6586	111.6586	2.2400e- 003	0.0107	114.8894

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3.5 Building Construction - 2022

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					ton	s/yr							MT	/yr		
	0.1962	1.7958	1.8818	3.1000e- 003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4837	266.4837	0.0638	0.0000	268.0798
Total	0.1962	1.7958	1.8818	3.1000e- 003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4837	266.4837	0.0638	0.0000	268.0798

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/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	6.2700e- 003	0.1641	0.0450	6.2000e- 004	0.0198	1.7900e- 003	0.0216	5.7200e- 003	1.7100e- 003	7.4300e- 003	0.0000	59.6830	59.6830	3.9000e- 004	9.0200e- 003	62.3819
Worker	0.0280	0.0191	0.2249	5.7000e- 004	0.0625	3.8000e- 004	0.0629	0.0166	3.5000e- 004	0.0170	0.0000	51.9755	51.9755	1.8500e- 003	1.6300e- 003	52.5075
Total	0.0343	0.1833	0.2699	1.1900e- 003	0.0823	2.1700e- 003	0.0845	0.0223	2.0600e- 003	0.0244	0.0000	111.6586	111.6586	2.2400e- 003	0.0107	114.8894

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3.6 Demolition Precast - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
J. Troud	0.0264	0.2572	0.2059	3.9000e- 004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e- 003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e- 004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e- 003	0.0000	34.2289

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/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
	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072
Total	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072

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3.6 Demolition Precast - 2022

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					ton	s/yr							MT	/yr		
	0.0264	0.2572	0.2059	3.9000e- 004		0.0124	0.0124	 	0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e- 003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e- 004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e- 003	0.0000	34.2289

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/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	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072
Total	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072

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3.7 Paving - 2022

<u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0110	0.1113	0.1458	2.3000e- 004		5.6800e- 003	5.6800e- 003		5.2200e- 003	5.2200e- 003	0.0000	20.0276	20.0276	6.4800e- 003	0.0000	20.1895
'aving	1.8500e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0129	0.1113	0.1458	2.3000e- 004		5.6800e- 003	5.6800e- 003		5.2200e- 003	5.2200e- 003	0.0000	20.0276	20.0276	6.4800e- 003	0.0000	20.1895

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/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	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072
Total	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072

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3.7 Paving - 2022

<u>Mitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Off-Road	0.0110	0.1113	0.1458	2.3000e- 004		5.6800e- 003	5.6800e- 003		5.2200e- 003	5.2200e- 003	0.0000	20.0275	20.0275	6.4800e- 003	0.0000	20.1895
l aving	1.8500e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0129	0.1113	0.1458	2.3000e- 004		5.6800e- 003	5.6800e- 003		5.2200e- 003	5.2200e- 003	0.0000	20.0275	20.0275	6.4800e- 003	0.0000	20.1895

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/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	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072
Total	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072

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3.8 Architectural Coating - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	0.6339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e- 003	0.0130	0.0181	3.0000e- 005		7.1000e- 004	7.1000e- 004		7.1000e- 004	7.1000e- 004	0.0000	2.5533	2.5533	1.5000e- 004	0.0000	2.5571
Total	0.6358	0.0130	0.0181	3.0000e- 005		7.1000e- 004	7.1000e- 004		7.1000e- 004	7.1000e- 004	0.0000	2.5533	2.5533	1.5000e- 004	0.0000	2.5571

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/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	4.6000e- 004	3.0000e- 004	3.6700e- 003	1.0000e- 005	1.1200e- 003	1.0000e- 005	1.1200e- 003	3.0000e- 004	1.0000e- 005	3.0000e- 004	0.0000	0.9004	0.9004	3.0000e- 005	3.0000e- 005	0.9091
Total	4.6000e- 004	3.0000e- 004	3.6700e- 003	1.0000e- 005	1.1200e- 003	1.0000e- 005	1.1200e- 003	3.0000e- 004	1.0000e- 005	3.0000e- 004	0.0000	0.9004	0.9004	3.0000e- 005	3.0000e- 005	0.9091

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3.8 Architectural Coating - 2023 Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/уг		
Archit. Coating	0.6339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
on read	1.9200e- 003	0.0130	0.0181	3.0000e- 005		7.1000e- 004	7.1000e- 004		7.1000e- 004	7.1000e- 004	0.0000	2.5533	2.5533	1.5000e- 004	0.0000	2.5571
Total	0.6358	0.0130	0.0181	3.0000e- 005		7.1000e- 004	7.1000e- 004		7.1000e- 004	7.1000e- 004	0.0000	2.5533	2.5533	1.5000e- 004	0.0000	2.5571

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					ton	s/yr							МТ	/уг		
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	4.6000e- 004	3.0000e- 004	3.6700e- 003	1.0000e- 005	1.1200e- 003	1.0000e- 005	1.1200e- 003	3.0000e- 004	1.0000e- 005	3.0000e- 004	0.0000	0.9004	0.9004	3.0000e- 005	3.0000e- 005	0.9091
Total	4.6000e- 004	3.0000e- 004	3.6700e- 003	1.0000e- 005	1.1200e- 003	1.0000e- 005	1.1200e- 003	3.0000e- 004	1.0000e- 005	3.0000e- 004	0.0000	0.9004	0.9004	3.0000e- 005	3.0000e- 005	0.9091

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Avei	age Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Refrigerated Warehouse-Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.515394	0.052058	0.166327	0.163679	0.033750	0.008148	0.012972	0.015736	0.000860	0.000305	0.025297	0.001401	0.004072
Other Asphalt Surfaces	0.515394	0.052058	0.166327	0.163679	0.033750	0.008148	0.012972	0.015736	0.000860	0.000305	0.025297	0.001401	0.004072
Other Non-Asphalt Surfaces	0.515394	0.052058	0.166327	0.163679	0.033750	0.008148	0.012972	0.015736	0.000860	0.000305	0.025297	0.001401	0.004072
Refrigerated Warehouse-Rail	0.515394	0.052058	0.166327	0.163679	0.033750	0.008148	0.012972	0.015736	0.000860	0.000305	0.025297	0.001401	0.004072

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000	i i	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
Manufacturing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	i	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	-/yr		
Manufacturing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity <u>Unmitigated</u>

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	/yr	
Manufacturing	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	Γ/yr	
Manufacturing	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	1.4000e- 004	1.0000e- 005	1.4800e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003
Unmitigated	1.4000e- 004	1.0000e- 005	1.4800e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	egory tons/yr					MT/yr										
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Products	0.0000				 	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e- 004	1.0000e- 005	1.4800e- 003	0.0000	 	1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003
Total	1.4000e- 004	1.0000e- 005	1.4800e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr					MT/yr										
Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landocaping	1.4000e- 004	1.0000e- 005	1.4800e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003
Total	1.4000e- 004	1.0000e- 005	1.4800e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category		МТ	/yr	
Willigatoa	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use <u>Unmitigated</u>

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		MT	/уг	
Manufacturing	0/0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0/0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		MT	/yr	
Manufacturing	0/0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0/0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
		MT	-/yr	
ga.oa	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use <u>Unmitigated</u>

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		МТ	-/yr	
Manufacturing	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		MT	-/yr	
Manufacturing	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
-----------------------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

1	F :	NI I	/5	11 07			E 17
	Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
							(

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

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Equipment Type Number

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Frito Modesto Expansion - Operations

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	62.00	1000sqft	1.42	62,000.00	0
Refrigerated Warehouse-Rail	27.00	1000sqft	0.62	27,000.00	0
Other Asphalt Surfaces	61.54	1000sqft	1.41	61,537.00	0
Other Non-Asphalt Surfaces	10.88	1000sqft	0.25	10,875.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	46
Climate Zone	3			Operational Year	2023

Utility Company Modesto Irrigation District

 CO2 Intensity
 212.66
 CH4 Intensity
 0.033
 N20 Intensity
 0.004

 (Ib/MWhr)
 (Ib/MWhr)
 (Ib/MWhr)
 (Ib/MWhr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Carbon intensity adjusted for RPS.

Land Use - Obtained from facility.

Construction Phase - Based on construction schedule provided by the facility.

Trips and VMT -

Demolition -

Grading - Data from client.

Architectural Coating -

Vehicle Trips - Mobile emissions modeled externally.

Consumer Products -

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Area Coating -

Energy Use - Energy emissions modeled externally.

Water And Wastewater - Water usage obtained from facility.

Solid Waste - Waste generation obtained by the facility.

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	NumDays	8.00	20.00
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	PhaseEndDate	3/6/2023	1/27/2023
tblConstructionPhase	PhaseEndDate	1/13/2023	12/30/2022
tblConstructionPhase	PhaseEndDate	1/11/2022	1/28/2022
tblConstructionPhase	PhaseEndDate	2/8/2022	7/8/2022
tblConstructionPhase	PhaseEndDate	2/25/2022	2/28/2022
tblConstructionPhase	PhaseEndDate	2/8/2023	9/28/2022
tblConstructionPhase	PhaseEndDate	2/15/2022	2/14/2022
tblConstructionPhase	PhaseStartDate	2/9/2023	1/2/2023
tblConstructionPhase	PhaseStartDate	2/26/2022	2/14/2022
tblConstructionPhase	PhaseStartDate	12/15/2021	1/3/2022
tblConstructionPhase	PhaseStartDate	1/12/2022	6/13/2022
tblConstructionPhase	PhaseStartDate	2/16/2022	2/1/2022
tblConstructionPhase	PhaseStartDate	1/14/2023	9/1/2022
tblConstructionPhase	PhaseStartDate	2/9/2022	2/1/2022
tblEnergyUse	LightingElect	2.70	0.00
tblEnergyUse	LightingElect	2.45	0.00
tblEnergyUse	NT24E	4.16	0.00
tblEnergyUse	NT24E	21.99	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	NT24NG	3.84	0.00		
tblEnergyUse	T24E	1.75	0.00		
tblEnergyUse	T24E	0.42	0.00		
tblEnergyUse	T24NG	16.86	0.00		
tblEnergyUse	T24NG	0.15	0.00		
tblGrading	MaterialExported	0.00	32,936.00		
tblGrading	MaterialImported	0.00	15,432.00		
tblLandUse	LandUseSquareFeet	61,540.00	61,537.00		
tblLandUse	LandUseSquareFeet	10,880.00	10,875.00		
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00		
tblOffRoadEquipment	UsageHours	6.00	8.00		
tblOffRoadEquipment	UsageHours	6.00	8.00		
tblProjectCharacteristics	CO2IntensityFactor	452.98	212.66		
tblSolidWaste	SolidWasteGenerationRate	76.88	33.85		
tblSolidWaste	SolidWasteGenerationRate	25.38	0.00		
tblVehicleTrips	ST_TR	6.42	0.00		
tblVehicleTrips	ST_TR	2.12	0.00		
tblVehicleTrips	SU_TR	5.09	0.00		
tblVehicleTrips	SU_TR	2.12	0.00		
tblVehicleTrips	WD_TR	3.93	0.00		
tblVehicleTrips	WD_TR	2.12	0.00		
tblWater	IndoorWaterUseRate	14,337,500.00	134,028,000.00		
tblWater	IndoorWaterUseRate	6,243,750.00	0.00		

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					ton	s/yr							MT	/yr		
2022	0.3464	3.4761	3.0737	7.8100e- 003	0.3621	0.1482	0.5103	0.1313	0.1388	0.2701	0.0000	704.6793	704.6793	0.1068	0.0409	719.5269
2023	0.6363	0.0133	0.0218	4.0000e- 005	1.1200e- 003	7.1000e- 004	1.8300e- 003	3.0000e- 004	7.1000e- 004	1.0100e- 003	0.0000	3.4537	3.4537	1.8000e- 004	3.0000e- 005	3.4662
Maximum	0.6363	3.4761	3.0737	7.8100e- 003	0.3621	0.1482	0.5103	0.1313	0.1388	0.2701	0.0000	704.6793	704.6793	0.1068	0.0409	719.5269

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					ton	s/yr							MT	/yr		
2022	0.3464	3.4761	3.0737	7.8100e- 003	0.2417	0.1482	0.3899	0.0806	0.1388	0.2193	0.0000	704.6788	704.6788	0.1068	0.0409	719.5264
2023	0.6363	0.0133	0.0218	4.0000e- 005	1.1200e- 003	7.1000e- 004	1.8300e- 003	3.0000e- 004	7.1000e- 004	1.0100e- 003	0.0000	3.4537	3.4537	1.8000e- 004	3.0000e- 005	3.4662
Maximum	0.6363	3.4761	3.0737	7.8100e- 003	0.2417	0.1482	0.3899	0.0806	0.1388	0.2193	0.0000	704.6788	704.6788	0.1068	0.0409	719.5264

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	СО	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	33.16	0.00	23.51	38.57	0.00	18.73	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	12-15-2021	3-14-2022	1.3899	1.3899
2	3-15-2022	6-14-2022	0.6510	0.6510
3	6-15-2022	9-14-2022	1.0951	1.0951
4	9-15-2022	12-14-2022	0.8468	0.8468
5	12-15-2022	3-14-2023	0.7133	0.7133
		Highest	1.3899	1.3899

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					ton	MT/yr										
Area	0.4158	1.0000e- 005	1.4800e- 003	0.0000		1.0000e- 005	1.0000e- 005	 	1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003
Energy	0.0000	0.0000	0.0000	0.0000	 	0.0000	0.0000	,	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000	, , , ,	0.0000	0.0000	6.8712	0.0000	6.8712	0.4061	0.0000	17.0232
Water						0.0000	0.0000	,	0.0000	0.0000	42.5209	69.9559	112.4768	4.3782	0.1044	253.0532
Total	0.4158	1.0000e- 005	1.4800e- 003	0.0000	0.0000	1.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005	1.0000e- 005	49.3921	69.9588	119.3510	4.7843	0.1044	270.0795

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2.2 Overall Operational

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					ton	MT/yr										
Area	0.4158	1.0000e- 005	1.4800e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste	ii					0.0000	0.0000		0.0000	0.0000	6.8712	0.0000	6.8712	0.4061	0.0000	17.0232
Water	ii 		,			0.0000	0.0000		0.0000	0.0000	42.5209	69.9559	112.4768	4.3782	0.1044	253.0532
Total	0.4158	1.0000e- 005	1.4800e- 003	0.0000	0.0000	1.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005	1.0000e- 005	49.3921	69.9588	119.3510	4.7843	0.1044	270.0795

	ROG	NOx	СО	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition Paving/Underground	Demolition	1/3/2022	1/28/2022	5	20	
2	Demolition Precast	Demolition	6/13/2022	7/8/2022	5	20	
3	Site Preparation	Site Preparation	2/1/2022	2/14/2022	5	10	

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4	Grading	Grading	2/1/2022	2/28/2022	5	20	
5	Building Construction	Building Construction	2/14/2022	12/30/2022	5	230	
6	Paving	Paving	9/1/2022	9/28/2022	5	20	
7	Architectural Coating	Architectural Coating	1/2/2023	1/27/2023	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 1.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 133,500; Non-Residential Outdoor: 44,500; Striped Parking Area: 4,345 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition Paving/Underground	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition Paving/Underground	Excavators	3	8.00	158	0.38
Demolition Paving/Underground	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Demolition Precast	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition Precast	Excavators	3	8.00	158	0.38

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Demolition Precast	Rubber Tired Dozers	2	8.00	247	0.40
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition Paving/Inderground	6	15.00	0.00	435.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	6,046.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	68.00	26.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition Precast	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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3.2 Demolition Paving/Underground - 2022

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					ton	s/yr							MT	/yr		
Fugitive Dust					0.0471	0.0000	0.0471	7.1300e- 003	0.0000	7.1300e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e- 004		0.0124	0.0124	 	0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e- 003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e- 004	0.0471	0.0124	0.0596	7.1300e- 003	0.0116	0.0187	0.0000	33.9902	33.9902	9.5500e- 003	0.0000	34.2289

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	8.3000e- 004	0.0333	6.2600e- 003	1.3000e- 004	3.7200e- 003	3.3000e- 004	4.0500e- 003	1.0200e- 003	3.2000e- 004	1.3400e- 003	0.0000	12.8311	12.8311	8.0000e- 005	2.0200e- 003	13.4344
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	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072
Total	1.3700e- 003	0.0336	0.0106	1.4000e- 004	4.9200e- 003	3.4000e- 004	5.2600e- 003	1.3400e- 003	3.3000e- 004	1.6700e- 003	0.0000	13.8280	13.8280	1.2000e- 004	2.0500e- 003	14.4416

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3.2 Demolition Paving/Underground - 2022

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					ton	s/yr							MT	/yr		
Fugitive Dust					0.0212	0.0000	0.0212	3.2100e- 003	0.0000	3.2100e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e- 004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e- 003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e- 004	0.0212	0.0124	0.0336	3.2100e- 003	0.0116	0.0148	0.0000	33.9902	33.9902	9.5500e- 003	0.0000	34.2289

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	√yr		
I lading	8.3000e- 004	0.0333	6.2600e- 003	1.3000e- 004	3.7200e- 003	3.3000e- 004	4.0500e- 003	1.0200e- 003	3.2000e- 004	1.3400e- 003	0.0000	12.8311	12.8311	8.0000e- 005	2.0200e- 003	13.4344
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
	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072
Total	1.3700e- 003	0.0336	0.0106	1.4000e- 004	4.9200e- 003	3.4000e- 004	5.2600e- 003	1.3400e- 003	3.3000e- 004	1.6700e- 003	0.0000	13.8280	13.8280	1.2000e- 004	2.0500e- 003	14.4416

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3.3 Demolition Precast - 2022

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					ton	s/yr							MT	/yr		
	0.0264	0.2572	0.2059	3.9000e- 004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e- 003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e- 004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e- 003	0.0000	34.2289

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/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
	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072
Total	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072

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3.3 Demolition Precast - 2022

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
J. Trodu	0.0264	0.2572	0.2059	3.9000e- 004		0.0124	0.0124	1 1 1	0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e- 003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e- 004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e- 003	0.0000	34.2289

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072			
Total	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072			

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3.4 Site Preparation - 2022

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					ton	s/yr							MT	/yr		
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e- 004		8.0600e- 003	8.0600e- 003		7.4200e- 003	7.4200e- 003	0.0000	16.7197	16.7197	5.4100e- 003	0.0000	16.8549
Total	0.0159	0.1654	0.0985	1.9000e- 004	0.0983	8.0600e- 003	0.1064	0.0505	7.4200e- 003	0.0579	0.0000	16.7197	16.7197	5.4100e- 003	0.0000	16.8549

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 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		
VVOINCI	3.2000e- 004	2.2000e- 004	2.5900e- 003	1.0000e- 005	7.2000e- 004	0.0000	7.2000e- 004	1.9000e- 004	0.0000	2.0000e- 004	0.0000	0.5982	0.5982	2.0000e- 005	2.0000e- 005	0.6043		
Total	3.2000e- 004	2.2000e- 004	2.5900e- 003	1.0000e- 005	7.2000e- 004	0.0000	7.2000e- 004	1.9000e- 004	0.0000	2.0000e- 004	0.0000	0.5982	0.5982	2.0000e- 005	2.0000e- 005	0.6043		

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3.4 Site Preparation - 2022

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					ton	s/yr							MT	/yr		
Fugitive Dust					0.0442	0.0000	0.0442	0.0227	0.0000	0.0227	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e- 004		8.0600e- 003	8.0600e- 003		7.4200e- 003	7.4200e- 003	0.0000	16.7197	16.7197	5.4100e- 003	0.0000	16.8549
Total	0.0159	0.1654	0.0985	1.9000e- 004	0.0442	8.0600e- 003	0.0523	0.0227	7.4200e- 003	0.0302	0.0000	16.7197	16.7197	5.4100e- 003	0.0000	16.8549

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 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				
	3.2000e- 004	2.2000e- 004	2.5900e- 003	1.0000e- 005	7.2000e- 004	0.0000	7.2000e- 004	1.9000e- 004	0.0000	2.0000e- 004	0.0000	0.5982	0.5982	2.0000e- 005	2.0000e- 005	0.6043				
Total	3.2000e- 004	2.2000e- 004	2.5900e- 003	1.0000e- 005	7.2000e- 004	0.0000	7.2000e- 004	1.9000e- 004	0.0000	2.0000e- 004	0.0000	0.5982	0.5982	2.0000e- 005	2.0000e- 005	0.6043				

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3.5 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	-/yr		
Fugitive Dust					0.0736	0.0000	0.0736	0.0347	0.0000	0.0347	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e- 004		9.4100e- 003	9.4100e- 003		8.6600e- 003	8.6600e- 003	0.0000	26.0548	26.0548	8.4300e- 003	0.0000	26.2654
Total	0.0195	0.2086	0.1527	3.0000e- 004	0.0736	9.4100e- 003	0.0830	0.0347	8.6600e- 003	0.0433	0.0000	26.0548	26.0548	8.4300e- 003	0.0000	26.2654

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0116	0.4625	0.0870	1.8500e- 003	0.0516	4.6500e- 003	0.0563	0.0142	4.4400e- 003	0.0186	0.0000	178.3371	178.3371	1.0900e- 003	0.0281	186.7224
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	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072
Total	0.0121	0.4628	0.0914	1.8600e- 003	0.0528	4.6600e- 003	0.0575	0.0145	4.4500e- 003	0.0190	0.0000	179.3340	179.3340	1.1300e- 003	0.0281	187.7296

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3.5 Grading - 2022

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					ton	s/yr							МТ	/yr		
Fugitive Dust	1 1 1 1 1				0.0331	0.0000	0.0331	0.0156	0.0000	0.0156	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e- 004		9.4100e- 003	9.4100e- 003		8.6600e- 003	8.6600e- 003	0.0000	26.0547	26.0547	8.4300e- 003	0.0000	26.2654
Total	0.0195	0.2086	0.1527	3.0000e- 004	0.0331	9.4100e- 003	0.0425	0.0156	8.6600e- 003	0.0243	0.0000	26.0547	26.0547	8.4300e- 003	0.0000	26.2654

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0116	0.4625	0.0870	1.8500e- 003	0.0516	4.6500e- 003	0.0563	0.0142	4.4400e- 003	0.0186	0.0000	178.3371	178.3371	1.0900e- 003	0.0281	186.7224
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	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072
Total	0.0121	0.4628	0.0914	1.8600e- 003	0.0528	4.6600e- 003	0.0575	0.0145	4.4500e- 003	0.0190	0.0000	179.3340	179.3340	1.1300e- 003	0.0281	187.7296

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3.6 Building Construction - 2022 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1962	1.7958	1.8818	3.1000e- 003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4840	266.4840	0.0638	0.0000	268.0801
Total	0.1962	1.7958	1.8818	3.1000e- 003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4840	266.4840	0.0638	0.0000	268.0801

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/уг		
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
1 -	6.2700e- 003	0.1641	0.0450	6.2000e- 004	0.0198	1.7900e- 003	0.0216	5.7200e- 003	1.7100e- 003	7.4300e- 003	0.0000	59.6830	59.6830	3.9000e- 004	9.0200e- 003	62.3819
Worker	0.0280	0.0191	0.2249	5.7000e- 004	0.0625	3.8000e- 004	0.0629	0.0166	3.5000e- 004	0.0170	0.0000	51.9755	51.9755	1.8500e- 003	1.6300e- 003	52.5075
Total	0.0343	0.1833	0.2699	1.1900e- 003	0.0823	2.1700e- 003	0.0845	0.0223	2.0600e- 003	0.0244	0.0000	111.6586	111.6586	2.2400e- 003	0.0107	114.8894

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3.6 Building Construction - 2022

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					ton	s/yr							MT	/yr		
	0.1962	1.7958	1.8818	3.1000e- 003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4837	266.4837	0.0638	0.0000	268.0798
Total	0.1962	1.7958	1.8818	3.1000e- 003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4837	266.4837	0.0638	0.0000	268.0798

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/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	6.2700e- 003	0.1641	0.0450	6.2000e- 004	0.0198	1.7900e- 003	0.0216	5.7200e- 003	1.7100e- 003	7.4300e- 003	0.0000	59.6830	59.6830	3.9000e- 004	9.0200e- 003	62.3819
Worker	0.0280	0.0191	0.2249	5.7000e- 004	0.0625	3.8000e- 004	0.0629	0.0166	3.5000e- 004	0.0170	0.0000	51.9755	51.9755	1.8500e- 003	1.6300e- 003	52.5075
Total	0.0343	0.1833	0.2699	1.1900e- 003	0.0823	2.1700e- 003	0.0845	0.0223	2.0600e- 003	0.0244	0.0000	111.6586	111.6586	2.2400e- 003	0.0107	114.8894

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3.7 Paving - 2022

<u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	-/yr		
Off-Road	0.0110	0.1113	0.1458	2.3000e- 004		5.6800e- 003	5.6800e- 003		5.2200e- 003	5.2200e- 003	0.0000	20.0276	20.0276	6.4800e- 003	0.0000	20.1895
'aving	1.8500e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0129	0.1113	0.1458	2.3000e- 004		5.6800e- 003	5.6800e- 003		5.2200e- 003	5.2200e- 003	0.0000	20.0276	20.0276	6.4800e- 003	0.0000	20.1895

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/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	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072
Total	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072

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3.7 Paving - 2022

<u>Mitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	-/yr		
Off-Road	0.0110	0.1113	0.1458	2.3000e- 004		5.6800e- 003	5.6800e- 003		5.2200e- 003	5.2200e- 003	0.0000	20.0275	20.0275	6.4800e- 003	0.0000	20.1895
'aving	1.8500e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0129	0.1113	0.1458	2.3000e- 004		5.6800e- 003	5.6800e- 003		5.2200e- 003	5.2200e- 003	0.0000	20.0275	20.0275	6.4800e- 003	0.0000	20.1895

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/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	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072
Total	5.4000e- 004	3.7000e- 004	4.3100e- 003	1.0000e- 005	1.2000e- 003	1.0000e- 005	1.2100e- 003	3.2000e- 004	1.0000e- 005	3.3000e- 004	0.0000	0.9970	0.9970	4.0000e- 005	3.0000e- 005	1.0072

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3.8 Architectural Coating - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	0.6339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e- 003	0.0130	0.0181	3.0000e- 005		7.1000e- 004	7.1000e- 004		7.1000e- 004	7.1000e- 004	0.0000	2.5533	2.5533	1.5000e- 004	0.0000	2.5571
Total	0.6358	0.0130	0.0181	3.0000e- 005		7.1000e- 004	7.1000e- 004		7.1000e- 004	7.1000e- 004	0.0000	2.5533	2.5533	1.5000e- 004	0.0000	2.5571

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/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	4.6000e- 004	3.0000e- 004	3.6700e- 003	1.0000e- 005	1.1200e- 003	1.0000e- 005	1.1200e- 003	3.0000e- 004	1.0000e- 005	3.0000e- 004	0.0000	0.9004	0.9004	3.0000e- 005	3.0000e- 005	0.9091
Total	4.6000e- 004	3.0000e- 004	3.6700e- 003	1.0000e- 005	1.1200e- 003	1.0000e- 005	1.1200e- 003	3.0000e- 004	1.0000e- 005	3.0000e- 004	0.0000	0.9004	0.9004	3.0000e- 005	3.0000e- 005	0.9091

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3.8 Architectural Coating - 2023 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					ton	s/yr							MT	/yr		
Archit. Coating	0.6339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e- 003	0.0130	0.0181	3.0000e- 005		7.1000e- 004	7.1000e- 004		7.1000e- 004	7.1000e- 004	0.0000	2.5533	2.5533	1.5000e- 004	0.0000	2.5571
Total	0.6358	0.0130	0.0181	3.0000e- 005		7.1000e- 004	7.1000e- 004		7.1000e- 004	7.1000e- 004	0.0000	2.5533	2.5533	1.5000e- 004	0.0000	2.5571

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/уг		
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
	4.6000e- 004	3.0000e- 004	3.6700e- 003	1.0000e- 005	1.1200e- 003	1.0000e- 005	1.1200e- 003	3.0000e- 004	1.0000e- 005	3.0000e- 004	0.0000	0.9004	0.9004	3.0000e- 005	3.0000e- 005	0.9091
Total	4.6000e- 004	3.0000e- 004	3.6700e- 003	1.0000e- 005	1.1200e- 003	1.0000e- 005	1.1200e- 003	3.0000e- 004	1.0000e- 005	3.0000e- 004	0.0000	0.9004	0.9004	3.0000e- 005	3.0000e- 005	0.9091

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Avei	age Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Refrigerated Warehouse-Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Manufacturing	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

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		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Refrigerated Warehouse-Rail	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.515394	0.052058	0.166327	0.163679	0.033750	0.008148	0.012972	0.015736	0.000860	0.000305	0.025297	0.001401	0.004072
Other Asphalt Surfaces	0.515394	0.052058	0.166327	0.163679	0.033750	0.008148	0.012972	0.015736	0.000860	0.000305	0.025297	0.001401	0.004072
Other Non-Asphalt Surfaces	0.515394	0.052058	0.166327	0.163679	0.033750	0.008148	0.012972	0.015736	0.000860	0.000305	0.025297	0.001401	0.004072
Refrigerated Warehouse-Rail	0.515394	0.052058	0.166327	0.163679	0.033750	0.008148	0.012972	0.015736	0.000860	0.000305	0.025297	0.001401	0.004072

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000	i i	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	, 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
Manufacturing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	 	0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	 	0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
Manufacturing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e			
Land Use	kWh/yr	MT/yr						
Manufacturing	0	0.0000	0.0000	0.0000	0.0000			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000			
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000			
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000			
Total		0.0000	0.0000	0.0000	0.0000			

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	/yr	
Manufacturing	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	0.4158	1.0000e- 005	1.4800e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003
Unmitigated	0.4158	1.0000e- 005	1.4800e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	ry tons/yr						MT/yr									
Architectural Coating	0.0634					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Products	0.3523			 	 	0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
aaccapg	1.4000e- 004	1.0000e- 005	1.4800e- 003	0.0000	 	1.0000e- 005	1.0000e- 005	1 1 1 1	1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003
Total	0.4158	1.0000e- 005	1.4800e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr					MT/yr										
Coating	0.0634					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.3523					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landocaping	1.4000e- 004	1.0000e- 005	1.4800e- 003	0.0000	 	1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003
Total	0.4158	1.0000e- 005	1.4800e- 003	0.0000		1.0000e- 005	1.0000e- 005		1.0000e- 005	1.0000e- 005	0.0000	2.8800e- 003	2.8800e- 003	1.0000e- 005	0.0000	3.0700e- 003

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category		МТ	-/yr	
lga.ea	112.4768	4.3782	0.1044	253.0532
Cimingatou	112.4768	4.3782	0.1044	253.0532

7.2 Water by Land Use <u>Unmitigated</u>

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		MT	/yr	
Manufacturing	134.028 / 0	112.4768	4.3782	0.1044	253.0532
Other Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0/0	0.0000	0.0000	0.0000	0.0000
Total		112.4768	4.3782	0.1044	253.0532

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		МТ	/yr	
Manufacturing	134.028 / 0	112.4768	4.3782	0.1044	253.0532
Other Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0/0	0.0000	0.0000	0.0000	0.0000
Total		112.4768	4.3782	0.1044	253.0532

8.0 Waste Detail

8.1 Mitigation Measures Waste

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
		МТ	-/yr	
gatou	6.8712	0.4061	0.0000	17.0232
Unmitigated	6.8712	0.4061	0.0000	17.0232

8.2 Waste by Land Use <u>Unmitigated</u>

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		МТ	-/yr	
Manufacturing	33.85	6.8712	0.4061	0.0000	17.0232
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000
Total		6.8712	0.4061	0.0000	17.0232

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		MT	/yr	
Manufacturing	33.85	6.8712	0.4061	0.0000	17.0232
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000
Total		6.8712	0.4061	0.0000	17.0232

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

1	F :	NI I	/5	11 07			E 17
	Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
							<i>t</i>

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type Number

11.0 Vegetation

Air Quality and Greenhouse Gas Analysis Frito-Lay Modesto, California

APPENDIX B.2 EMFAC OUTPUT FILES

Source: EMFAC2022 (v1.0.1) Emissions Inventory Region Type: County Region: Stanislaus Culendar Year: 2020 Saiston: Annual Vehicle Classification: EMFAC2007 Categories

	is/day for CVMT and EVMT, trips/day	for Trips, kWh/day	for Energy Con	sumption, tons/day f	for Emissions, 1000	gallons/day for	Fuel Consumptio	n																									
Region	Calendar Year Vehicle Catego	ry Model Yea	r Speed	Fuel		Total VMT	CVMT			Energy Consumption	NOx_RUNEX	NOx_IDLEX		NOx_TOTEX		PM2.5_IDLEX							M10_IDLEX										CH4_RUNEX
Stanislaus	2020 HHDT	Aggregate	Aggregate	Gasoline	8.697850095		128.0641059		174.0265847		0.00309163		0.000178722		1.73E-06	0	7.42E-07	2.47E-06	7.068-07	5.75E-06		1.86E-06	0	7.968-07	2.665-06	2.825-06	1.64E-05		0.412911209		0.012507107	0.425418317	
Stanislaus	2020 HHDT	Aggregate			5320.373633		770779.6753		87441.80223		2.75272121				0.047058754	0.000747426	0	0.04780618	0.007544786	0.023685836			0.000781221	0	0.049967764	0.030179144	0.067673819	0.147820726	1401.94722		0	1495.418875	
Stanislaus	2020 HHDT	Aggregate	Aggregate	Natural Gas		8072.153632			928.4841295		0.01747			0.019105087	3.21E-05	2.42E-06	0	3.468-05	8.01E-05	0.000420398	0.000535031	3.495-05	2.63E-06	0	3.765-05	0.000320329	0.001201138		13.84027419			15.06342515	0.026694512
Stanislaus	2020 LDA	Aggregate	Aggregate	Gasoline	187557.3034		6022706.703		866595.0068		0.46424163		0.316630965		0.00834321	0	0.002123775	0.010466985	0.013277795	0.021526816	0.045271596	0.009073726	0	0.002309489	0.011383216	0.053111182	0.061505189		1941.212897	0	73.39131829		0.023696032
Stanislaus	2020 LDA	Aggregate	Aggregate		611.8991777	16669.525			2652.04052		0.00620372			0.006203721	0.000365126	0	0	0.000365126	3.68E-05	5.99E-05	0.000461753	0.000381636	0	0	0.000381636	0.000147	0.000171077		4.196459426	0	0	4.196459426	2.84E-05
Stanislaus	2020 LDA	Aggregate	Aggregate	Electricity	1949.518796	68311.14432		68311.14432	9872.087172	26373.7397	3					0	0	0	0.0001506	0.000114933	0.000265533	0	0	0	0	0.000602401	0.000328379	0.00093078	0	0	0	0	0
Stanislaus	2020 LDA	Aggregate	Aggregate	Plug-in Hybrid	2659.908203	108945.8408	58551.31034	50394.53044	10998.72042	15220.65011	0.00042917		0.001375682	0.001804852	9.368-05	0	3.02E-05	0.000123787	0.000240184	0.000176973	0.000540945	0.000101827	0	3.285-05	0.00013463	0.000960738	0.000505636	0.001601004	18.62588341	0	0.830633858	19.45651727	5.94E-05
Stanislaus	2020 LDT1	Aggregate	Aggregate	Gasoline	21022.45823	537315.4407	537315.4407		90261.51865		0.15800610		0.061616193	0.219622294	0.001478602	0	0.000418302	0.001896904	0.001184578	0.002268727	0.005350209	0.00160791	0	0.00045485	0.00206276	0.004738311	0.006482078	0.013283149	206.7196532	0	9.975637117	216.6952904	0.007589852
Stanislaus	2020 LDT1	Aggregate	Aggregate	Diesel	18.16129589	185.8115518	185.8115518		56.03440685		0.00031289			0.000312893	4.43E-05	0	0	4.43E-05	4.10E-07	8.83E-07	4.568-05	4.635-05	0	0	4.635-05	1.645-06	2.52E-06	5.05E-05	0.079576946	0	0	0.079576946	2.65E-06
Stanislaus	2020 LDT1	Aggregate	Aggregate	Electricity	3.203164592	77.04551931	. 0	77.04551931	14.32122404	29.7459293						0	0	0	1.70E-07	1.31E-07	3.01E-07	0	0	0	0	6.79E-07	3.74E-07	1.05E-06	0	0	0	0	0
Stanislaus	2020 LDT1	Aggregate	Aggregate	Plug-in Hybrid	0.753011763	31.79112058	16.59837282	15.19274776	3.113703638	4.588662631	1.225-0	, ,	3.896-07	5.11E-07	2.39E-08	0	7.92E-09	3.18E-08	7.01E-08	5.15E-08	1.535-07	2.60E-08	0	8.615-09	3.465-08	2.80E-07	1.47E-07	4.62E-07	0.005280144	0	0.000261575	0.00554172	1.68E-08
Stanislaus	2020 LDT2	Aggregate	Aggregate	Gasoline	75750.38719	2327797.587	2327797.587		349034.7231		0.36589444		0.20487568	0.570770129	0.003485217	0	0.00087741	0.004362628	0.005131915	0.009402394	0.018896937	0.003790285	0	0.000954171	0.004744456	0.020527661	0.026863984	0.052136101	956.516592	0	38.31437251	994.8309645	0.012475097
Stanislaus	2020 LDT2	Aggregate	Aggregate	Diesel	176.8018544	6048.129336	6048.129336		837.1728722		0.00060935	, ,		0.000609357	8.07E-05	0	0	8.07E-05	1.33E-05	2.31E-05	0.00011707	8.435-05	0	0	8.435-05	5.33E-05	6.59E-05	0.000203557	2.074154378	0	0	2.074154378	6.97E-06
Stanislaus	2020 LDT2	Aggregate	Aggregate	Electricity	7.60845964	227.2328458		227.2328458	38.80490412	87.7306330						0	0	0	5.01E-07	3.82E-07	8.835-07	0	0	0	0	2.00E-06	1.09E-06	3.09E-06	0	0	0	0	0
Stanislaus	2020 LDT2	Aggregate	Aggregate	Plus-in Hybrid	114.920584	4768.852065	2511.653634	2257.198431	475.1966148	681.7412014	1.845-0		5.946-05	7.785-05	4.25E-06	0	1.42E-06	5.67E-06	1.056-05	7.735-06	2.396-05	4.625-06	0	1.548-06	6.17E-06	4.215-05	2.21E-05	7.03E-05	0.798987546	0	0.043042632	0.842030177	2.55E-06
Stanislaus	2020 LHDT1	Aggregate	Apprepate	Gaspline	10156.34353	298274.9886	298274.9886		151314.3856		0.10237908	0.000457437	0.11987162	0.222708141	0.000630408	0	7.38E-05	0.000704239	0.000657584	0.008976019	0.010337842	0.000685384		8.02E-05	0.000765586	0.002630335	0.025645768	0.029041689	314.4938104	1.383504399	4.240147924	320.1174628	0.004705074
Stanislaus	2020 LHDT1	Aggregate	Apprepate	Diesel	10300.11632	318583.7149	318583.7149		129562.5058		1.0096385	0.027473023		1.037111577	0.019323683	0.000306177	0	0.01962986	0.001053535	0.009587171	0.030270566	0.020197414	0.000320021	0	0.020517435	0.004214141	0.027391918	0.052123494	224.6540329	1.57565788		226.2296908	0.004105783
Stanislaus	2020 LHDT2	Aggregate	Aggregate	Gasoline	1712.453856	57294.28293	57294.28293		25513.0109		0.01144235	7.46E-05	0.01869687	0.030213781	9.175-05	0	7.89E-06	9,968-05	0.000126312	0.002011523	0.002237468	9.985-05		8.58E-06	0.00010836	0.000505249	0.005747208	0.006360817	64.01072397	0.265320918	0.731697734	65.00774262	0.000478345
Stanislaus	2020 LHDT2	Aggregate	Aggregate		3375.410036	111516.6733	111516.6733		42458.41199		0.25245793	0.00876558		0.261223511	0.00539325	9.825-05	0	0.005491417	0.000368778	0.003915196	0.009775391	0.005637109	0.000102605	0	0.005739714	0.001475113	0.011186274	0.018401102	96.38382636	0.821204654		97.20503102	0.001186752
Stanislaus	2020 MCY	Aggregate	Aggregate		11004 48443	51337.85675	51337.85675		22008.96886		0.04115097		0.004636302	0.04578728	9.275-05	0	8.76E-05	0.000180321	5.668-05	0.000237679	0.00047459	9.865.05	0	9.27E-05	0.000191225	0.000226361	0.000679084	0.00109667	10.5715603	0	1.428844477	12 00040478	0.011562263
Stanislaus	2020 MDV	Aggregate	Aggregate		86228.05479		2469102.668		391124.2325		0.53485518		0.307921563		0.003740323	0	0.001078877	0.0048192	0.00544344	0.010259301	0.02052194	0.004065783		0.001172281	0.005238064	0.021773758	0.029312288	0.056324111	1221.37456	0	52.08859127	1273.463152	0.018291983
Stanislaus	2020 MDV	Aggregate			1210.265365		41393.1448		5764.812109		0.00650234		0	0.006502348	0.000381306	0	0	0.000381306	9.13E-05	0.00016344	0.000636002	0.000398547		0	0.000398547	0.000365025	0.00046697	0.001230542	18.7095776	0	0	18.7095776	3.44E-05
Stanislaus	2020 MDV	Aggregate			18.34877657	563.1046225		563.1046225		217.4048591				0	0	0	0	0	1.24E-06	9.45E-07	2.196-06	0		0	0	4.97E-06	2.70E-06	7.67E-06	0	0		0	0
Stanislaus	2020 MDV	Aggregate	Aggregate		212.7657486		4759.8114		879.7863705	1232.24751			0.000110041	0.000144929	8.87E-06	0	2.89E-06	1.18E-05	1.95E-05	1.43E-05	4.568-05	9.658-06		3.145-06	1.285-05	7.80E-05	4.105-05		1.514153853	0	0.099524012	1.613677865	4.84E-06
Stanislaus	2020 MH	Aggregate			1648.249026				164.8908326		0.00896508		7.156-05		2.82E-05	0	9.77E-08	2.83E-05	3.90E-05	0.000205106	0.000272452	3.076-05		1.068-07	3.08E-05	0.000156106	0.000586017	0.000777897	25.41161972	0	0.005977178	25.4175969	0.000356828
Stanislaus	2020 MH	Aggregate	Aggregate	Diesel		4467.309551			58.70157875		0.02889830			0.028898304	0.000736003		0	0.000736003	1.97E-05	7.73E-05	0.000832987	0.000769282			0.000769282	7.885.05	0.000220817	0.001058889	5.308511511		0	5 308511511	3.595.05
Stanislaus	2020 MHDT	Aggregate				24636.72647			13290.14333		0.02470669	6.385.05	0.006587558	0.031358089	4.24E-05	0	1.155-05	5.39E-05	8.15E-05	0.00042818		4.616-05	0	1.258-05	5.866-05	0.000325888	0.001223371		51.41758226	0.40640458	0.720225566	52.5442124	0.000946116
Stanislaus	2020 MHDT	Aggregate	Aggregate	Diesel		210833.7448			54187.47093		0.66227889				0.012761909	0.000471571	0	0.01323348	0.000697213	0.003666954	0.017597647		0.000492894	0	0.013831839	0.002788853	0.010477011		266.1175009			278.3575245	
Stanislaus	2020 MHDT	Aggregate		Natural Gas		1541 766173			199 344028		0.00024266			0.000476989	2.06E-06	6.135-07	0	2.675-06	5.10E-06	2.72E-05	3 505.05	2.245-06	6.67E-07	0	2.905-06	2.045.05	7 785-05		1.740031442			1 931091983	0.001338986
Stanislaus	2020 OBUS	Aggregate	Aggregate		167 2241739	6364.289227	6364 289227		3345.821272		0.00628406	1.20E-05	0.001588028	0.007884056	6.23E-06	0	9.70E-07	7.19E-06	2.10E-05	0.000110214		6.776-06	0	1.058-06	7.825-06	8.425-05	0.000314899	0.000406908	12.94661091	0.071642739	0.124270942	13.14252459	0.000180566
Stanislaus	2020 OBUS	Aggregate	Aggregate			9228.124085			1556.758734		0.04356414				0.001129346	1.065-05	0	0.001139963	3.05E-05	0.000204688	0.001375168	0.00118041	1.11E-05	0	0.001191507	0.000122067	0.000584824		14.21293834			14.59150181	0.000145336
Stanislaus	2020 OBUS	Aggregate		Natural Gas		88.88306101			13.61246227		2.40E-0			2.66E-05	7.89E-08	6.475-09		8.54E-08	2.94E-07	1.58E-06		8.585-08	7.03E-09		9.295-08	1.18E-06	4.525-05		0.102320789			0.104413396	7.45E-05
Stanislaus	2020 SBUS	Aggregate	Aggregate	Gasoline		8175.765779			796 6258902		0.00293513				6.94E-06	0.472-09	4.15E-07	7.36E-06	1.80E-05	0.000141681	0.000167064	7.558-06	7.030-09	4 515.07	8.005-06	7.215.05	0.000404804	0.000484905	7.490859676		0.050699918	8 123948163	6.965.05
Stanislaus	2020 SBUS	Aggregate			481 1460994		11361.46075		6966 995519		0.05859987				0.000339725	1.495.05	4.131-07	0.000354594	3.76E-05	0.000141081	0.000187054	0.000355086	1.55F.05	4.312-07	0.000370627	0.000150286	0.000464554	0.00108345	14.58774359			15.80409059	4.06E-05
Stanislaus	2020 SBUS	Aggregate	Aggregate	Natural Gas	86 99540599		2288.32345		1259.693479			0.000503073	0.003232012	0.001812589	8.52E-06	1155-06	0	9,67E-06	7.57E-06	3.97E-05		9.275-06	1.258-06		1.058-05	3.03E-05	0.000302330		3 180489822			3.580236374	0.008311136
Stanislaus	2020 SBUS 2020 UBUS			Gasoline		1020,776415			73.18191345		0.00021605	0.00050307	7.085-05		1.165-06	1.150-06	5.82E-08	1.21E-06	3.25E-06	4.25E-05		1.265-06	1.230-00	6.335-08	1.325-06	1.30E-05	0.000113301	0.000134083	1.934367582	0.399/40353	0.008783795	1.943151377	4.09E-06
Stanislaus	2020 UBUS	Aggregate Aggregate	Aggregate	Diesel	75.04971484		7917.303225		300.1988594		0.00021603		7.086-05	0.00028686	4.66E-05		5.822-08	4.66E-05	5.62E-05	0.000336002	0.000438787	4.87E-05		U.33E-U8	4.87E-05	0.000224848	0.000121313		10.67059282		0.000/83/93	10.67059282	3.23E-05
Stanislaus	2020 UBUS	Aggregate			5.046756939			101.2376355		176.481912	0.00010412			0.000104122	4.666-03			4.000-05	1.00E-06	2.15E-06		4.875-05			4.875-05	4.02E-06	6.14E-06	1.02E-05	10.07039282			10.07339282	2.230-05
Scanistaus	2020 0805	Aggregate	Aggregate	Decorate	5.046756939				20.18/02/75	1/0.401912				0.00000000					2.005-05	2.150-00	3.130-00	2 200 42			2 200 42	4.022-00	0.141.00	1.026-05	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0 007075 007

Source: EMFAC2021 (vt.0.1) Emissions Inventory Region Type: County Region: Stanislaus Cullender Year: 2020 Season: Annual Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption														
CHA IDLEY	COLUMN TOWNS	core money	****	*****	NOO STREY	NAO TOTEV	200 2120	200 IN 51	non consu	BOG TOTEY	POS DURN	BOG HOTEOAK	POC BUNGOSS	BOG TO

		or order and the co	.,		,,,			, , , , , , , , , , , , , , , , , , ,																								
CH4 IDLEX	CH4 STREX	CH4 TOTEX	N2O RUNEX	N2O IDLEX	N2O STREX	NZO TOTEX	ROG RUNEX	ROG IDLEX	ROG STREX	ROG TOTEX	ROG DIURN I	IOG HOTSOAK	ROG RUNLOSS	ROG TOTAL	TOG RUNEX	TOG IDLEX	TOG STREX	гос тотех	TOG DIURN	TOG HOTSOAK 1	TOG RUNLOSS	TOG TOTAL	CO RUNEX	CD IDLEX	CO STREX	со тотех	SOx RUNEX S	SOx IDLEX SO	Ox STREX S	Ox TOTEX	NH3 RUNEX Fu	d Consumption
	2.185-09	0.000118576	6.73E-05		3.31E-06	7.06E-05	0.000861395	0	1.195-08	0.000861407	0.00012961	4.00E-05	0.000301411	0.001332469	0.0011588		1.305-08	0.001158813	0.00012961	4.00E-05	0.000301411	0.001629875	0.036088389		0.000351051	0.03643944	4.08E-06		1.24E-07	4.215-06	3.87E-06	0.04485983
0.001778195		0.004735397	0.220877355	0.014726497	0	0.235603853	0.063667757	0.038284044	0	0.1019518	0	0	0	0.1019518	0.072480894	0.04358347	0	0.116064364	0	0	0	0.116064364	0.251430256	0.489426557	0	0.740856813	0.013275602	0.000885121	0	0.014160723	0.162751496	133.5851757
0.004327685		0.031022198	0.00282143	0.000249347	0	0.003070778	0.000948409	7.716-05	0	0.001025507	0	0	0	0.001025507	0.027889701	0.004434112	0	0.032323813	0	0	0	0.032323813	0.132199329	0.008394286	0	0.140593615	0	0	0	0	0.007745594	1.7411022
	0.087606	0.111302032	0.041957133	0	0.034946261	0.076903395	0.099168419	0	0.433876986	0.533045405	0.389530641	0.111022411	0.276161733	1.30976019	0.144616055	0	0.475035375	0.61965143	0.389530641	0.111022411	0.276161733	1.396366214	7.430610399	0	4.049066962	11.47967736	0.019190866	0	0.000725548	0.019916414	0.202298197	212.4374973
		2.845-05	0.000661154	0	0	0.000661154	0.000610611	0	0	0.000610611	0	0	0	0.000610611	0.00069514	0	0	0.00069514	0	0	0	0.00069514	0.006570209	0	0	0.006570209	3.98E-05	0	0	3.98E-05	5.70E-05	0.374868058
		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
	0.000502238	0.000561671	7.76E-05	0	0.000248397	0.000326008	0.000188029	0	0.002043001	0.00223103	0.001664732	0.000509904	0.000444994	0.004850659	0.000274371	0	0.002236829	0.0025112	0.001664732	0.000509904	0.000444994	0.005130829	0.030663781	0	0.015685314	0.046349095	0.000184136	0	8.21E-06	0.000192347	0.00226791	2.051665436
	0.017121259	0.02471111	0.010232688	0	0.004831112	0.015063801	0.03570122	0	0.097491107	0.133192327	0.113174751	0.029127438	0.088961419	0.364455934	0.052040601	0	0.106739263	0.158779865	0.113174751	0.029127438	0.088961419	0.390043472	1.731876122	0	0.926314608	2.65819073	0.002043634	0	9.868-05	0.002142254	0.02232459	22.85024761
		2.65E-06	1.25E-05	0	0	1.25E-05	5.71E-05	0	0	5.71E-05	0	0	0	5.71E-05	6.50E-05	0	0	6.50E-05	0	0	0	6.506-05	0.000333059	0	0	0.000333059	7.546-07	0	0	7.54E-07	6.35E-07	0.007108577
		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
	1.425-07	1.595-07	2.20E-08	0	7.04E-08	9.24E-08	5.33E-08	0	5.78E-07	6.32E-07	3.295-07	9.625-08	9.546-08	1.158-06	7.78E-08	0	6.33E-07	7.11E-07	3.296-07	9.625-08	9.54E-08	1.235-06	8.69E-06	0	4.44E-06	1.31E-05	5.22E-08	0	2.59E-09	5.48E-08	7.68E-07	0.000584367
	0.043777049	0.056252146	0.025097416	0	0.017807055	0.042904472	0.05400325	0	0.222537553	0.276540803	0.165732988	0.045980169	0.119957238	0.608211198	0.07873888	0	0.243649189	0.322388069	0.165732988	0.045980169	0.119957238	0.654058464	3.730725252	0	2.02790989	5.758635142	0.00945614	0	0.000378777	0.009834917	0.082813781	104.9036822
		6.97E-06	0.000326784	0	0	0.000326784	0.000150161	0	0	0.000150161	0	0	0	0.000150161	0.000170949	0	0	0.000170949	0	0	0	0.000170949	0.001017163	0	0	0.001017163	1.97E-05	0	0	1.97E-05	2.07E-05	0.185283389
		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
	2.17E-05	2.426-05	3.32E-06	0	1.07E-05	1.40E-05	8.07E-06	0	8.83E-05	9.63E-05	5.446-05	1.558-05	1.546-05	0.000181661	1.18E-05	0	9.668-05	0.000108411	5.44E-05	1.55E-05	1.54E-05	0.000193739	0.001315373	0	0.00067768	0.001993052	7.90E-06	0	4.26E-07	8.32E-06	0.000115251	0.08879103
0.001352245	0.00651291	0.012570226	0.005560262	3.31E-05	0.008599952	0.014193337	0.024223348	0.005237786	0.033906847	0.063367981	0.039021495	0.010390907	0.052542809	0.165323192	0.03510433	0.007640945	0.037120168	0.079865443	0.039021495	0.010390907	0.052542809	0.181820654	0.525635413	0.041887116	0.483264472	1.050787001	0.003109091	1.37E-05	4.19E-05	0.003164687	0.014727983	33.75598647
5.798-05		0.004163667	0.035394334	0.000248246	0	0.03564258	0.088395101	0.001246204	0	0.089641305	0	0	0	0.089641305	0.100631945	0.001418721	0	0.102050666	0	0	0	0.102050666	0.263155657	0.010329183	0	0.27348484	0.002128711	1.49E-05	0	0.002143641	0.045068603	20.20900866
0.000230274	0.000972392	0.001681011	0.00067763	5.92E-06	0.00146316	0.002146713	0.002279605	0.000854801	0.004835886	0.007970293	0.004362816	0.001152269	0.00569109	0.019176468	0.003326361	0.001247324	0.005294686	0.009868371	0.004362816	0.001152269	0.00569109	0.021074546	0.062975238	0.007098137	0.038861378	0.158934753	0.000632811	2.62E-06	7.23E-06	0.000642668	0.002839422	6.854985235
1.90E-05		0.001205721	0.015185311	0.000129381	0	0.015314692	0.025550079	0.000408389	0	0.025958467	0	0	0	0.025958467	0.029087066	0.000464923	0	0.029551989	0	0	0	0.029551989	0.069706029	0.003384935	0	0.073090964	0.000913286	7.78E-06	0	0.000921067	0.019158182	8.683286915
	0.005450345	0.017012608	0.002611973	0	0.000263431	0.002875405	0.081412545	0	0.041680649	0.123093194	0.065620742	0.087632204	0.092790549	0.369136689	0.095160205	0	0.045282461	0.140442667	0.065620742	0.087632204	0.092790549	0.386486161	0.937848302	0	0.208419701	1.146268002	0.000104511	0	1.41E-05	0.000118636	0.000471277	1.26542769
	0.065035413	0.083327396	0.033909772	0	0.022965735	0.056875507	0.086082002	0	0.358476274	0.444558276	0.212514774	0.059339497	0.155986815	0.872399362	0.122931111	0	0.392452098	0.515383208	0.212514774	0.059339497	0.155986815	0.943224294	4.668116353	0	2.530390658	7.198507011	0.012074531	0	0.000514949	0.01258948	0.086067834	134.2850982
		3.446-05	0.002947702	0	0	0.002947702	0.000739825	0	0	0.000739825	0	0	0	0.000739825	0.000842241	0	0	0.000842241	0	0	0	0.000842241	0.010871796	0	0	0.010871796	0.000177283	0	0	0.000177283	0.000141447	1.671319156
		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
	4.03E-05	4.515-05	6.33E-06	0	2.00E-05	2.63E-05	1.53E-05	0	0.000163419	0.000178705	0.000113318	3.09E-05	3.176-05	0.000354624	2.23E-05	0	0.000178924	0.000201228	0.000113318	3.09E-05	3.17E-05	0.000377147	0.002492751	0	0.001254666	0.003747417	1.506-05	0	9.84E-07	1.605-05	0.000220365	0.170160315
	7.405-06	0.000364223	0.000479527	0	6.87E-06	0.000486399	0.001720614	0	3.43E-05	0.00175493	0.011098578	0.003049167	6.77E-05	0.015970327	0.002474506	0	3.768-05	0.002512063	0.011098578	0.003049167	6.77E-05	0.01672746	0.046570442	0	0.000734382	0.047304824	0.00025122	0	5.91E-08	0.000251279	0.00057901	2.680253835
		3.595-05		0	0	0.000836358	0.000772282	0	0	0.000772282	0	0	0	0.000772282	0.000879192	0	0	0.000879192	0	0	0	0.000879192		0	0	0.002674477	5.03E-05	0	0	5.03E-05		0.47420723
0.000171900	0.000719256			4.51E-06	0.000425951	0.001480504	0.005105069		0.004277722	0.010109818	0.003337948	0.000877165	0.006601447	0.020926378	0.007449304		0.004683567	0.013193748	0.003337948	0.000877165	0.006601447		0.111366127			0.217967939		4.02E-06	7.12E-06	0.000519453	0.001209235	5.540721545
9.535-05		0.001394056		0.001928421	0	0.043855341		0.002050947	0	0.03001364	0	0	0	0.03001364	0.031833398		0	0.034168244	0	0	0		0.084156748			0.120064052	0.002519974	0.000115906	0	0.002635879		24.8655674
0.000639026		0.001978012		3.89E-05	0	0.000393666	1.91E-05		0	2.83E-05	0	0	0	2.83E-05	0.001366533		0	0.002018706	0	0	0		0.005040074			0.00620199	0	0	0	0	0.001801476	0.22320478
3.426-05	0.000148128			8.67E-07	0.000108406	0.00038954	0.000893303		0.000825425	0.001855807	0.00049755	0.000131502	0.000516531	0.00300139	0.001303102		0.000903725	0.002406846	0.00049755	0.000131502	0.000516531	0.003552429			0.017862688		0.00012799	7.08E-07		0.000129927	0.000315365	1.385862797
7.035-06		0.000152362	0.002239254	5.968-05	0	0.002298897	0.003129047	0.000151264	0	0.003280312	0	0	0	0.003280312	0.003562182	0.000172203	0	0.003734385	0	0	0	0.003734385	0.008392012	0.001772475	0	0.010164487	0.000134588	3.58E-06	0	0.000138173	0.001725169	1.303453076
7.20E-06		8.17E-05	2.09E-05	4.27E-07	0	2.13E-05	1.055-06	1.035-07	0	1.17E-06	0	0	0	1.176-06	7.60E-05	7.358-06	0	8.34E-05	0	0	0	8.346-05	0.00031113	1.225-05	0	0.000323284	0	0	0	0	0.000103855	0.012068596
0.000530517	5.588-05	0.000656014	0.000180002	1.938-05	5.58E-05	0.000255099	0.00033751	0.0023305	0.000319732	0.002987742	0.000268456	7.796-05	0.000147523	0.003481657	0.000492495	0.003400659	0.000350066	0.00424322	0.000268456	7.796-05	0.000147523	0.004737135	0.008158455	0.018020286	0.008406357	0.034585098	7.415-05	5.765-06	5.01E-07	8.036-05	0.000405551	0.856660183
4.60E-06		4.525-05	0.002298305	0.000191636	0	0.002489941	0.000873899	9.918-05	0	0.000973015	0	0	0	0.000973015	0.000994867	0.000112836	0	0.001107704	0	0	0	0.001107704	0.00257351	0.002193628	0	0.004767137	0.000138137	1.155-05	0	0.000149655	0.001544418	1.411773152
0.001433586		0.009744721		8.15E-05	0	0.000729855	0.00011875	2.05E-05	0	0.000139233	0	0	0	0.000139233	0.008482123	0.001463079	0	0.009945203	0	0	0		0.027700775	0.002117897		0.029818572	0	0	0	0	0.002673791	0.413820719
	9.446-06	1.355-05	1.968-05	0	6.62E-06	2.62E-05	1.368-05	0	4.05E-05	5.42E-05	1.345-05	3.458-06	7.73E-06	7.87E-05	1.99E-05	0	4.44E-05	6.43E-05	1.346-05	3.45E-06	7.73E-06		0.000350056	0	0.000782777		1.916-05	0	8.68E-08	1.925-05	5.068-05	0.204902885
		3.23E-05	0.001681156	0	0	0.001681156	0.000695842	0	0	0.000695842	0	0	0	0.000695842	0.000792163	0	0	0.000792163	0	0	0	0.000792163	0.000793156	0	0	0.000793156	0.000101109	0	0	0.000101109	0.001725847	0.95319983
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		0.007935483	0.001133911	0	0	0.001133911	0.000113382	0	0	0.000113382	0	0	0	0.000113382	0.008098743	0	0	0.008098743	0	0	0	0.008098743	0.100814662	0	0	0.100814662	0	0	0	0	0.004214597	0.642916801

Source: EMFAC2021 (vt. 0.1) Emissions Inventory Revicer Type: County Revicer Stanislaus Calendar Year: 2022 Season: Annual

Season		
Vehicle	Classification: EMFAC2007 Categories	

Units: miles/day for CWMT and EVMT. trios/day for Trios. kWh/day for Energy Consumption. tons/day for Emissions. 1000 asilons/day for Fuel Consumption

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	33.347906 0.001140495
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	15475115 0.009094834

Source: EMFAC2021 (v1.0.1) Emissions Inventory Resilion Type: Country Resilion: Stanishus Callendar Tiles: 2022 Sasson: Annual Vehicle Classification: EMFAC2007 Categories

Vehicle Classification: EMFAC3007 Categories	
Units: miles/day for CVMT and EVMT. trios/day for Trios. kWh/day for Energy Consumption, tons/day for Emissions, 1000 millions/day for Fuel Consumption	

Column C	Velocis Granification (MAPCODI Catagories)													
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Source: EMFAC2021 (v1.0.1) Emissions Inventory Region Type: County Region: Stanislaus Calendar Year: 2023 Season: Anniaul Vehicle Classification: EMFAC2007 Categories Links: millschize for CVMIII and FVMIT trinschize for

Units: mile	/day for CVMT and EVMT. trips/day for Tri	os. kWh/dav fo	r Energy Consi	umption. tons/day f	for Emissions. 1000	eallons/dav fo	Fuel Consumption	n																								
Region	Calendar Year Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	CVMT	FVMT	Tries	Energy Consumption	NOx RUNEX	NOx IDLEX	NOv STREX	NOx TOTEX	PM2.5 RUNEX	PM2.5 IDLEX	M2.5 STREX	PM2.5 TOTEX PF	M2.5 PMTW I	PM2.5 PMBW F	M2.5 TOTAL	PM10 RUNEX P	M10 IDLEX I	M10 STREX	PM10 TOTEX	M10 PMTW E	PM10 PMBW P	PM10 TOTAL C	CO2 BUINEY C	CO2 IDIEX C	O2 STREX	OO2 TOTEX
Stanislaus	2023 HHDT	Aggregate	Aggregate		4.036315857				80.75860766		0.001762156	0	0.000133725	0.001895881	7.96E-07	0	2.22E-07	1.02E-06	4.74E-07	3.68E-06	5.17E-06	8.66E-07	0	2.41E-07	1.11E-06	1.89E-06	1.05E-05	1.35E-05	0.256309838	0	0.004622115	0.260931953
Stanislaus	2023 HHDT	Aggregate	Aggregate	Diesel	5768.093174	817261.9059	817261.9059		95339.54451	0	1.634838019	0.500906442	0.291725154	2.427469614	0.025402237	0.000228935	0	0.025631172	0.008001631	0.024149603	0.057782406	0.026550814	0.000239286	0	0.0267901	0.032006523	0.068998867	0.12779549	1445.143637	98.13787453	0	1543.281511
Stanislaus	2023 HHDT	Aggregate	Aggregate	Electricity	4.417725782	328.3676196	. 0	328.3676196	79.15760017	600.8677761	0	0	0	0	0	0	0	0	3.22E-06	4.78E-06	8.00E-06	0	0	0	0	1.29E-05	1.36E-05	2.65E-05	0	0	0	0
Stanislaus	2023 HHDT	Aggregate	Aggregate	Natural Gas	144.9795676	9307.311743	9307.311743		1149.490472	0	0.015228329	0.001886607	0	0.017114936	2.99E-05	3.41E-06	0	3.33E-05	9.23E-05	0.000485919	0.000611529	3.25E-05	3.71E-06	0	3.62E-05	0.000369344	0.001388341	0.001793873	15.17680027	1.493756186	0	16.67055645
Stanislaus	2023 LDA	Aggregate	Aggregate	Gasoline	185599.532	7279323.636	5 7279323.636		855533.9269	0	0.377086385	0	0.26233461	0.639420995	0.009304827	0	0.00189153	0.011196357	0.016048162	0.026337766	0.053582285	0.010119784	0	0.002057148	0.012176932	0.064192646	0.07525076	0.151620338	2247.57254	0	68.42181201	2315.994352
Stanislaus	2023 LDA	Aggregate	Aggregate	Diesel	528.015576	16506.47608	16506.47608		2244.98676	0	0.004367803	0	0	0.004367803	0.000281418	0	0	0.000281418	3.64E-05	6.06E-05	0.000378365	0.000294143	0	0	0.000294143	0.000145562	0.000173019	0.000612724	4.071216314	0	0	4.071216314
Stanislaus	2023 LDA	Aggregate	Aggregate	Electricity	5393.50031	256134.5516			27174.14194	98889.07686	0	0	0	0	0	0	0	0	0.00056468	0.000431259	0.000995939	0	0	0	0	0.00225872	0.001232168	0.003490889	0	0	0	0
Stanislaus	2023 LDA	Aggregate	Aggregate	Plug-in Hybrid	4137.978545	200352.8559	102262.8674			29626.10008	0.000753267	0	0.002140127	0.002893394	0.000138826	0	4.02E-05	0.000179068	0.000441702	0.000328155	0.000948925	0.000150986	0	4.38E-05	0.000194752	0.00176681	0.000937585	0.002899148	32.66481778	0	1.255476235	33.92029401
Stanislaus	2023 LDT1	Aggregate	Aggregate	Gasoline	18633.71555	583285.7518			79709.27373	0	0.125184147	0	0.046421164	0.171605311	0.001306282	0	0.000307837	0.001614119	0.001285925	0.002486823	0.005386867	0.001420641	0	0.000334778	0.001755419	0.0051437	0.007105209	0.014004329	216.328183	0	8.291053576	224.6192366
Stanislaus	2023 LDT1	Aggregate	Aggregate	Diesel	12.86704141				37.52482813	0	0.000243853	0	0	0.000243853	3.47E-05	0	0	3.47E-05	3.22E-07	7.00E-07	3.57E-05	3.63E-05	0	0	3.63E-05	1.29E-06	2.00E-06	3.95E-05	0.062558207	0	0	0.062558207
Stanislaus	2023 LDT1	Aggregate	Aggregate	Electricity	10.88943041				53.99850165	193.2733342	0	0	0	0	0	0	0	0	1.10E-06	8.43E-07	1.95E-06	0	0	0	0	4.41E-06	2.41E-06	6.82E-06	0	0	0	0
Stanislaus	2023 LDT1	Aggregate	Aggregate	Plug-in Hybrid	10.41590789			286.0908971		86.4079778	1.81E-06	0	5.39E-06	7.20E-06		0	6.71E-08	2.86E-07	1.17E-06	8.71E-07	2.33E-06	2.38E-07	0	7.30E-08	3.11E-07	4.69E-06	2.49E-06	7.49E-06	0.078605547		0.003436128	0.082041675
Stanislaus	2023 LDT2	Aggregate			78865.47463				363618.6521	0	0.306686754	0	0.164337601	0.471024355	0.004006834	0	0.000819279	0.004826113	0.006601457	0.012191642	0.023619212	0.004357758	0	0.000891026	0.005248784	0.026405828	0.034833263	0.066487876	1157.974076	0	37.14600911	1195.120085
Stanislaus	2023 LDT2	Aggregate	Aggregate		219.1935299				1041.598541	0	0.000597569	0	0	0.000597569	7.52E-05	0	0	7.52E-05	2.02E-05	3.60E-05	0.000131336	7.86E-05	0	0	7.86E-05	8.07E-05	0.000102765	0.000262084	3.019076076	0	0	3.019076076
Stanislaus	2023 LDT2	Aggregate	Aggregate		251.4085965			9391.163153		3625.764072	0	0	0	0	0	0	0	0	2.07E-05	1.58E-05	3.65E-05	0	0	0	0	8.28E-05	4.51E-05	0.000127901	0	0	0	0
Stanislaus	2023 LDT2	Aggregate		Muz-in Hybrid	416.7742294					3222.817113	7.31E-05	0	0.000215552		1.09E-05	0	3.32E-06	1.43E-05	4.54E-05	3.37E-05	9.34E-05	1.19E-05		3.61E-06	1.55E-05	0.000181575	9.63E-05	0.000293366	3.168572379		0.149855066	3.318427445
Stanislaus	2023 LHDT1 2023 LHDT1	Aggregate			9208.264848				137189.4259		0.087614759		0.104976106	0.192988661	0.000604366		5.38E-05	0.000658154	0.000722465	0.009861651	0.011242271	0.000657304	0.000287284	5.85E-05	0.000715803	0.002889861	0.028176146	0.03178181		1.237318146	3.8753644	336.9263477 235.8047276
Stanislaus	2023 LHDT1 2023 LHDT2	Aggregate Aggregate	Aggregate Aggregate		9381.022484		332927.6478 58782.89759		118001.4615		0.934823913	0.024014351 6.58E-05	0.016251946	0.958838264	0.019353696 8.65E-05	0.000274857	5.90E-06	0.019628553 9.24E-05	0.00110097	0.010018825	0.030748347	9.41E-05	0.000287284	6.42E-06	0.020516069	0.004403879	0.028625213 0.005896532	0.053545161 0.006515381		1.418676784 0.239950918	0.655908414	235.8047276 65.45129865
Stanislaus												0.582-05	0.010251946				5.902-06			0.002063786		0.006032973	9.915.05	0.422-00							0.0003000414	105.5852434
Stanislaus Stanislaus	2023 LHDT2 2023 MCY	Aggregate Aggregate	Aggregate Aggregate			122335.0516 57009.52526			40941.48744		0.244468476	0.008013962	0.00407119	0.252482438	0.005771989	9.48E-05	7.61E-05	0.005866755	0.000404554 6.28E-05	0.004295014	0.010566323	0.006032973	9.911-05	8.07E-05	0.006132023	0.001618216	0.012271469 0.000754107	0.020021709 0.001195473	104.8039479 11.66245218		1.304217166	12.96666934
Stanislaus	2023 MDV	Aggregate	Aggregate				37009.52529		363742.0249		0.421609645		0.231387078				0.000890201	0.000178674	0.006112614	0.000283937	0.022563829	0.000109344		0.000968068	0.005134252	0.024450455	0.033514711	0.063099419	1316.235306		46.14952054	1362.384826
Stanislaus	2023 MDV	Aggregate	Aggregate			46758.69961			5669.359996		0.005725032		0.232307070	0.005725032			0.000030202	0.004721007	0.000111014	0.000194439	0.001503017	0.000401878		0.010301010	0.000401878	0.000412341	0.000555539	0.001369758	20.77109468		40.240.320.34	20.77109468
Stanislaus	2023 MDV	Aggregate	Aggregate		277.6399044			10349.37075		3995.711291	0.003723032		0	0.003723032	0.000304433		0	0.000304433	2.28E-05	1.74E-05	4.02E-05	0.000402070		0	0.000-02070	9.13E-05	4.97E-05	0.002309730	0			20.77203400
Stanislaus	2023 MDV	Aggregate		Plug-in Hybrid	341.1520269					2429.856347	6.11E-05	0	0.000176441	0.000237542	1.25E-05	0	3.73E-06	1.626-05	3.60E-05	2.68E-05	7.90E-05	1.36E-05		4.06E-06	1.76E-05	0.000144095	7.65E-05	0.000240343	2 649586344	0	0.154905653	2.804491998
Stanislaus	2023 MH	Aggregate	Aggregate			11497.62112			133.8500837	0	0.006909795	0	6.15E-05		2.31E-05	0	6.29E-08	2.32E-05	3.80E-05	0.000199826	0.000261049	2.52E-05		6.85E-08	2.52E-05	0.000152087	0.00057093	0.000748252	24.72739237		0.004715681	24.73210805
Stanislaus	2023 MH	Aggregate	Aggregate	Diesel	564 3825557	4975.231058	8 4975.231058		56.43825557	0	0.030578685	n.	0	0.030578685	0.000771807	0	0	0.000771807	2.19E-05	8.61E-05	0.000879817	0.000806705		0	0.000806705	8.77E-05	0.000245924	0.001140376	5.917269907	0	0	5.917269907
Stanislaus	2023 MHDT	Aggregate	Aggregate	Gasoline	570.0968733	26942.83319	5 26942.83315		11406.49824	0	0.016929816	5.54E-05	0.005487731	0.022472925	3.90E-05	0	7.24E-06	4.62E-05	8.91E-05	0.000468259	0.000603578	4.24E-05		7.87E-06	5.03E-05	0.000356393	0.001337884	0.001744546	54.53555954	0.34268059	0.59354025	55.47178038
Stanislaus	2023 MHDT	Aggregate	Aggregate	Diesel	4656.661664	222058.7636	5 222058.7636		55281.21473	0	0.309057045	0.071126216	0.09730548	0.477488741	0.003337999	0.000177501	0	0.0035155	0.000734334	0.003861754	0.008111588	0.003488929	0.000185527	0	0.003674455	0.002937335	0.011033583	0.017645373	277.1431553	11.59572217	0	288.7388775
Stanislaus	2023 MHDT	Aggregate	Aggregate	Electricity	2.832444125	66.71016002	. 0	66.71016002	34.39916657	71.79621694	0	0	0	0	0	0	0	0	2.21E-07	5.80E-07	8.01E-07	0	0	0	0	8.82E-07	1.66E-06	2.54E-06	0	0	0	0
Stanislaus	2023 MHDT	Aggregate	Aggregate	Natural Gas	45.89106155	2408.187138	3 2408.187138		340.2108013	0	0.000281234	0.000356621	0	0.000637856	3.61E-06	1.08E-06	0	4.68E-06	7.96E-06	4.25E-05	5.51E-05	3.92E-06	1.17E-06	0	5.09E-06	3.19E-05	0.00012139	0.000158339	2.662472196	0.300561057	0	2.963033253
Stanislaus	2023 OBUS	Aggregate	Aggregate	Gasoline	148.7815027	6373.555589	6373.555589		2976.820306		0.005259448	1.06E-05	0.00141828	0.006688372	6.57E-06	0	8.76E-07	7.45E-06	2.11E-05	0.000110375	0.000138902	7.15E-06	0	9.53E-07	8.10E-06	8.43E-05	0.000315357	0.000407767	12.6595661	0.062982908	0.108369142	12.83091815
Stanislaus	2023 OBUS	Aggregate	Aggregate	Diesel	133.2999545	9372.579214	9372.579214		1526.518106	0	0.023188478	0.001751632	0.00266986	0.02760997	0.000498763	3.18E-06	0	0.000501944	3.10E-05	0.000203964	0.000736903	0.000521315	3.32E-06	0	0.000524639	0.000123978	0.000582756	0.001231373	14.34536313	0.356779413		14.70214255
Stanislaus	2023 OBUS	Aggregate	Aggregate	Natural Gas	2.169057964	119.8448319			19.30461588		2.99E-05	3.67E-06	0	3.36E-05	1.18E-07	9.56E-09	0	1.28E-07	3.96E-07	2.13E-06	2.66E-06	1.29E-07	1.04E-08	0	1.39E-07	1.59E-06	6.10E-06	7.82E-06			0	0.141634654
Stanislaus	2023 SBUS	Aggregate	Aggregate		202.7119074				810.8476294	0	0.003752295	0.000206769	0.000664685	0.004623748	8.34E-06	0	4.14E-07	8.75E-06	2.26E-05	0.000177258	0.000208558	9.07E-06	0	4.50E-07	9.52E-06	9.02E-05	0.000506451	0.000606169			0.050851389	9.976259322
Stanislaus	2023 SBUS	Aggregate	Aggregate			11205.15303			7029.614191	0	0.050146085	0.012023621	0.003652334	0.06582204	0.000277761	1.13E-05	0	0.000289027	3.71E-05	0.000194179	0.00052026	0.00029032	1.18E-05	0	0.000302095	0.000148219	0.000554797	0.001005111	14.225848	1.217868386	0	15.44371639
Stanislaus	2023 SBUS	Aggregate	Aggregate	Electricity		1.009531064		1.009531064		1.063496143	0	0	0	0	0	0	0	0	3.34E-09	8.7SE-09	1.21E-08	0	0	0	0	1.34E-08	2.50E-08	3.83E-08	0	0	0	0
Stanislaus	2023 SBUS	Aggregate	Aggregate		95.89798993				1388.602894	0	0.001286294	0.000551742	0	0.001838037	9.10E-06	1.33E-06	0	1.04E-05	8.08E-06	4.23E-05	6.09E-05	9.90E-06	1.45E-06	0	1.13E-05	3.23E-05	0.00012099	0.000164658		0.441793471		3.776196365
Stanislaus	2023 UBUS	Aggregate		Gasoline	18.71002833				74.84011332	0	0.00028425	0	8.20E-05	0.000366237	1.19E-06	0	5.98E-08	1.25E-06	3.32E-06	4.34E-05	4.80E-05	1.29E-06		6.51E-08	1.36E-06	1.33E-05	0.000124064	0.0001387	1.978141096	0	0.003988065	1.987129161
Stanislaus	2023 UBUS	Aggregate	Aggregate		71.36802862				285.4721145	0	0.006194723	0	0	0.006194723	4.48E-05	0	0	4.48E-05	5.45E-05	0.000329248	0.000428515	4.68E-05	0	0	4.68E-05	0.000217942	0.000940708	0.001205457	10.25716519	0	0	10.25716519
Stanislaus	2023 UBUS	Aggregate	Aggregate		5.046756939			101.2376355		176.4819127	0.001147736	0	0	0.001147736	8 49F-07	0	0	0 8.49F-07	1.00E-06 3.24E-05	2.15E-06	3.15E-06	0 8 885.07		0	8 88F-07	4.02E-06	6.14E-06	1.02E-05	6.050637388	0	0	6.050637388
Stanislaus	2023 UBUS	Aggregate	Aggregate	Natural Gas		4371.826164	4 4371.826164		209.9060829											0.000185536	0.000218767					0.000129526	0.000530102	0.000660516				

Source: EMFAC2021 (v1.0.1) Emissions Inventory Region Type: County Region Stanishus Calendar Year: 2023 Season: Annual Vehicle Classification: EMFAC2007 Categories Lister militarities of COMT and PUMT Interchaufer

Units: miles/day for CVMT and EVMT. trios/day for Trios. kWh/day for Energy Consumption. tons/day for Emissions. 1000 gallons/day for Fuel Consumptio	n
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CH4 RUNEY	CH4 IDLEX	CH4 STREX	CHA TOTEX	N2O BLINEY I	N2O IDLEX	NZO STREX	N2O TOTEX	ROS RUNEX	ROG IDLEX R	ROG STREX E	ING TOTEX	ROG DILIBN F	NOS HOTSOAK B	OS RUNIOSS R	OG TOTAL	TOS BUNEY	TOS IDIEX	TOS STREX	TOG TOTEX 1	TOS DILIRN T	OG HOTSOAK TO	ng RUNLOSS	TOG TOTAL	O BLINEY	CO IDIEX	CO STREX	CO TOTEX	SOV BLINEX S	OV IDLEX S	Ov STREX S	OV TOTEX	NH3 RUNEY For	ol Consumption
5.44E-05		3.08E-09	5.44E-05	3.79E-05		2.46E-06	4.04E-05	0.000346642	0	1.67E-08	0.000346658	5.77E-05	1.52E-05	0.000136198	0.000555744	0.000505819	0	1.83E-08	0.000505837	5.77E-05	1.52E-05	0.000136198	0.000714923	0.017775563		0.00017131	0.017946873	2.53E-06	0	4.57E-08	2.58E-06	3.06E-06	0.027514948
0.000580793	0.001919681	0	0.002600474	0.227682968	0.015461662	0	0.243144631	0.014657282	0.04133021		0.055987492	0	0		0.055987492	0.016686199	0.047051298		0.063737498		0	0	0.063737498	0.071326022	0.603570856	0	0.674896878	0.013684646	0.000929307	0	0.014613953	0.195902438	137.8607261
0	0	0	0	0	0		0.0.00	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
0.026256708	0.004971023	0	0.03122773	0.00309389	0.000304512		0.003398402	0.000807463	8.27E-05		0.000890127	0	0	0	0.000890127	0.027289434	0.005086552	0	0.032375986	0	0	0	0.032375986	0.137245026	0.010578092	0	0.147823118	0	0	0	0	0.00887326	1.926862067
0.020304808	0	0.073433611	0.093738419		0	0.032747087		0.078251467	0.2.2.2	0.340075663	0.418327131	0.357017156	0.097825641	0.25033038	1.123500308	0.114163771	0	0.372338959		0.357017156	0.097825641	0.25033038	1.191675907	7.168570426		3.264566832	10.43313726	0.022219543	0	0.000676419	0.022895962		244.2187107
2.27E-05		0	2.27E-05			0	0.000641422	0.00048858		0	0.00048858	0	0	0	0.00048858	0.000556216		0	0.000556216	0	0	0		0.005907312		0	0.005907312	3.86E-05		0	3.86E-05	5.64E-05	0.363680141
2.272-03			2.272-00	0.000041411	0	0	0.0000-1-12	0.00040030	0		0.000-41030		0		0.000-00.00	0.000330110			0.000330110		0		0.000330210	0.003307312			0.003307312	3.002-03			3.000-03	3.042-03	0.30300141
0.000105131		0.000792209	0.00089834	0.000139787	0	0.000396603	0.00053639	0.000331172	0	0.003178266	0.003509438	0.002407283	0.000823322	0.000723192	0.007463235	0.000483246		0.003479801	0.003963047	0.002407283	0.000823322	0.000723192	0.007916843	0.053898535		0.024401403	0.078299938	0.000322925		1.24F-05	0.000335337	0.004291373	3.576852621
0.006077658		0.012843185		0.000139787	0	0.004002867		0.000331172		0.070112551	0.097797987		0.022651953	0.068794009	0.280962833	0.000403040		0.076764251	0.11715433		0.022651953	0.068794009	0.300319176	1.436929912		0.658290395		0.002138624		8.20E-05	0.00222059	0.023781011	23.68581785
2.08E-06		0.011043103	2.08E-06	9.86E-06	0	0.004002007	9.86E-06	4.47E-05	0	0.070111.001	4.47F-05	0.001710000	0.011031333	0.0007 54003	4.47E-05	5.09E-05		0.070704231	5.09E-05	0.002720002	0.011031333	0.000734003		0.000258669		0.030230333	0.000258669	5.93E-07		0.200-03	5.93E-07	4.98E-07	0.0055883
2.002-00			2.002-00	0.002-00	0	0	3.002-00	4.472-03	0		4.472-03		0		4.472-03	3.032-03			202-03		0		3.032-03	0.0002.20003			0.000230009	3.932-03			3.322-07	4.342-07	0.000,000
2.54E-07		1.985-06	2.24E-06	3.33E-07	0	9.89E-07	1.32E-06	7.97E-07	0	8.00E-06	8.80E-06	3.60E-06	1.19E-06	1.05E-06	1.46E-05	1.16E-06		8.76E-06	9.92E-06	3.60E-06	1.19E-06	1.05E-06	1.58E-05	0.000129703		6.14E-05	0.000191125	7.77E-07		3.40E-08	8.11E-07	1.14E-05	0.008651192
0.011617338		0.038536904	0.050154242	0.024077939		0.016523751		0.047209041		0.184579026		0.164812714	0.042734058	0.117428639	0.556763477	0.068880595		0.202090564		0.164812714	0.042734058	0.117428639	0.59594667	3 702789605		1.711589383	5.414378988	0.011447753		0.000367226	0.011814979	0.114707182	126.0239197
7.74E-06		0.038536904	7.74E-06			0.010323751	0.000475657	0.000166567	0	0.1845/9026	0.000166567	0.104812714	0.042734038	0.11/428039	0.000166567	0.000189625		0.202090004	0.000189625	0.104812714	0.042/34038	0.117428039		0.001392067		1.711589383	0.001392067	2.86E-05		0.000367226	2.86E-05	3.13E-05	0.26969287
7.746-06			7.746-06	0.000475057			0.0004/363/	0.000100367	0		0.000100307		0		0.000100507	0.000189625	0		0.000189025		0		0.000189625	0.001392067		0	0.001392067	2.800-05			2.800-03	3.136-05	0.26969287
1.025.05		7 955.05	8 97F-05	1 34F-05		3 965.05	5.31F.05	3 21F-05		0.000320113	0.000352237	0.00016192	5 105-05	4 735.05	0.000612426	4.695.05		0.000350483	0.000207250	0.00016192	5 10F-05	4 735.05	0.000657548	0.005228298		0.002457692	0.00768599	3 135.05		1.48F.06	3 285.05	0.000458144	0.349924028
0.00404785	0.001218493	0.005488361	0.010754703	0.004897838	3 115.05	0.008001284		0.020413484	0.004556456	0.000320113		0.00018192	0.008735185	0.047582326	0.000612426	0.039787308	0.00664877	0.000330483		0.00016192	0.008735185	0.047582326	0.000657548	0.003228298	0.038065224		0.00768399	0.003280316	1 225.05	3.83E.05	0.00333086	0.000438144	35.52846238
0.004101597	5.27E-05	0.003488361	0.010754705		0.000223513	0.008001284	0.037151131	0.088304965	0.004336436	0.027530095	0.089439969	0.033907999	0.008733183	0.04/582320	0.089439969	0.100529332	0.001292126	0.030103860	0.101821458	0.035907999	0.008/33183	0.04/582326		0.261496664	0.038065224	0.440/30803	0.27090416	0.003280316	1.34E-05	3.836-03	0.00223437		21.06434291
0.004101597	0.000208467	0.000840957	0.004154316	0.030927618	5.535.06	0.001322803		0.001745607	0.001133004	0.004069991		0.004211451	0.001044528	0.00533611	0.017162307	0.100529332	0.001292126	0.004456128	0.008104453	0.004344454	0.001044528	0.00533611	0.101821438	0.055204878		0.077534611		0.002220927	2.37E-06	6.48F.06	0.00223437	0.002914231	6.901757663
		0.000840357			0.000123093	0.001322803		0.001745607		0.004009991		0.004211451	0.001044528	0.00533011		0.002547186	0.000110114	0.004430128		0.004211451	0.001044528	0.00533011		0.073910203		0.077534611			7.40F-06	0.482-00			9.431887969
0.001248817 0.012070392	1.83E-05		0.001267108		0.000123093		0.016634998		0.000393798		0.02728009		0.084211505		0.02728009	0.090608256	0.000448313		0.031056569		0.084211505		0.031056569	0.073910203	0.003264001	0	0.077174204	0.000993071	7.40E-06		0.001000474	0.022242549	9.431887969
0.012070392		0.004959681	0.017030073	0.002792256 0.029619433		0.000233923		0.082905305	0	0.037430106	0.120335411 0.336344959	0.065871784	0.084211505	0.091196998 0.156205512	0.361615698	0.09770972	0	0.040672808	0.138382528 0.391867291	0.065871784	0.084211505	0.091196998	0.379662815	4 134406964		0.19755057	1.172030046 6.098516128	0.000115295		1.29E-05 0.000456235	0.000128189		1.367319081
		0.051/5288				0.019322194			u	0.271305828		0.215000001	0.034033132	0.150205512				0.297043892		0.215000801	0.034033132	0.150205512				1.904109104				0.000430233			
3.60E-05			3.60E-05	0.003272494		0	0.003272494	0.000775465	0		0.000775465		0		0.000775465	0.000882815	0		0.000882815		0		0.000882815	0.012521597			0.012521597	0.000196817			0.000196817	0.000159782	1.85547366
								2.69E-05	0		0.000288892	0.000164477	5.09E-05			3.92E-05	0	0.000286889	0.000326087	0.000164477	5.09E-05		0.000589604	0.004371946		0.002011752	0.006383698	2.62E-05			2.77E-05	0.000384034	0.295730177
8.59E-06		6.52E-05	7.38E-05 0.000255609	1.13E-05 0.000394558		3.26E-05		0.001126708	0	0.000262029				4.82E-05	0.000552409		0				0.002150097	4.82E-05						0.000244455		1.53E-06 4.66E-08			2.607969891
0.000249928	0	5.68E-06			0	6.22E-06			0	2.48E-05		0.008467584	0.002150097	4.98E-05	0.01181897	0.001644089	0	2.72E-05	0.001671253	0.008467584	0.002150097	4.98E-05		0.027882954		0.000542056	0.02842501		0	4.666-08	0.000244502		
3.97E-05			3.97E-05	0.000932268			0.000932268	0.000854701	0.000632933	0.003404855	0.000854701	0.002285069	0.000536184		0.000854701	0.00097302	0.000923575		0.00097302		0.000536184		0.00097302	0.002941491	0.009459467	0	0.002941491	5.61E-05 0.00053914	3 395.06	5.87F-06	5.61E-05	0.000634886	0.528587377
0.000587123	0.000158845	0.00060088	0.001346848	0.000787924	4.42E-06	0.00039493		0.0030337		0.003404855		0.002285069	0.000536184	0.004252383	0.014145123	0.004426768		0.003727887	0.00907823	0.002285069	0.000536184	0.004252383	0.016151865	0.065133766		0.072915673	0.147508905			5.872-06	0.000548395	0.001332773	5.84942993
0.00033607	6.23E-05		0.00039833	0.043664017	0.001826911	0	0.045490928	0.007235491	0.001340453		0.008575945		0		0.008575945	0.008237056	0.001526004		0.00976306		0		0.00976306	0.027207908	0.037987723		0.06519563	0.00262438	0.000109805		0.002734185	0.051392302	25.79292955
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
0.002099892	0.000919772	0	0.003019664	0.000542762	6.13E-05	0	0.000604034	3.00E-05	1.31E-05	0	4.31E-05	0	0	0	4.31E-05	0.002143094	0.000938695	0	0.003081788	0	0	0		0.007824516	0.002090478	0	0.009914994	0	0	0	0	0.002813845	0.342481452
0.000149326	3.11E-05	0.000128552	0.000309024	0.00023899	8.05E-07	1.00E-04		0.000738285	0.000122024	0.000706436	0.001566745	0.000608232	0.000136901	0.000639074	0.002950951	0.001077304	0.000178057	0.000773459	0.002028819	0.000608232	0.000136901	0.000639074	0.003413025	0.016193024	0.000944812	0.015234248	0.032372084	0.000125153	6.23E-07	1.07E-06	0.000126847	0.000315824	1.353004287
5.53E-05	5.57E-06	0	6.09E-05		5.62E-05	0	0.002316329	0.001191595			0.001311468	0	0	0	0.001311468	0.00135654	0.000136467	0	0.001493007		0	0	0.001493007	0.00348596			0.005321023	0.000135842	3.38E-06	0	0.00013922	0.002149079	1.31333657
0.000101831	1.00E-05	0	0.000111839	2.83E-05	6.14E-07	0	2.89E-05	1.45E-06	1.43E-07	0	1.60E-06	0	0	0	1.60E-06	0.000103926	1.02E-05	0	0.00011414	0	0	0	0.00011414	0.000423164	1.81E-05		0.000441274	0	0	0	0	0.000140033	0.016370806
7.86E-05	0.000555476	5.83E-05	0.000692338	0.000233804	1.97E-05	6.29E-05		0.000374676	0.002373977	0.00032567	0.003074323	0.000361489	9.98E-05	0.000197931	0.003733514	0.000546726	0.003464101	0.000356568	0.004367396	0.000361489	9.98E-05	0.000197931	0.005026587	0.009163188	0.01835325	0.008168581	0.035685018	9.23E-05	5.84E-06	5.03E-07	9.86E-05	0.000507385	1.05198408
3.64E-05	4.32E-06	0	4.07E-05	0.002241288	0.000191876	0	0.002433164	0.000783088	9.31E-05	0	0.000876192	0	0	0	0.000876192	0.000891486	0.000105992	0	0.000997478	0	0	0	0.000997478	0.002365304	0.002354424	0	0.004719728	0.00013471	1.15E-05	0	0.000146243	0.001667531	1.379581067
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
	0.001545595	0	0.010113894	0.00067974	9.01E-05	0	0.000769802	0.000122424	2.21E-05	0	0.000144508	0	0	0	0.000144508	0.008744577	0.001577393	0	0.010321971	0	0	0	0.010321971	0.028136577	0.002485754		0.030622331	0	0	0	0	0.002855249	0.436470705
4.08E-06	0	1.11E-05	1.52E-05	2.42E-05	0	7.13E-06		1.38E-05	0	4.83E-05	6.21E-05	1.51E-05	5.01E-06	7.90E-06	9.01E-05	2.01E-05	0	5.29E-05	7.30E-05	1.51E-05	5.01E-06	7.90E-06	0.000101009	0.000405335	0	0.000789638		1.96E-05	0	8.89E-08	1.96E-05	5.18E-05	0.209540287
2.84E-05	0	0	2.84E-05	0.001616021	0	0	0.001616021	0.000611269	0	0	0.000611269	0	0	0	0.000611269	0.000695883	0	0	0.000695883	0	0	0	0.000695883	0.000684743	0	0	0.000684743	9.72E-05	0	0	9.72E-05	0.001752144	0.916268503
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
0.010544534	0	0	0.010544534	0.001233462	0	0	0.001233462	0.000150661	0	0	0.000150661	0	0	0	0.000150661	0.01076147	0	0	0.01076147	0	0	0	0.01076147	0.129305386	0	0	0.129305386	0	0	0	0	0.004674539	0.699361398

Source: EMFAC2021 (vt.0.1) Emissions Inventory Region Type: County Region Straidius Calendar Fear: 2025 Sasson: Annual Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

	Dassification: EMFAC2007 Categories sles,/day for CVMT and EVMT, trips,/day for Ti	ips, kWh/day fo	or Energy Consu	imption, tons/day fo	or Emissions, 1000 g	sllons/day for Fue	(Consumption																									
			Speed			Total VMT	CVMT	EVMT	Tries		NOx RUNEX	NOx IDLEX	NOx STREX	NOx TOTEX	PM2.5 RUNEX	PM2.5 IDLEX	PM2.5 STREX	PM2.5 TOTEX P	M2.5 PMTW	PM2.5 PMBW R	M2.5 TOTAL	PM10 RUNEX F	MIG IDLEX	PM10 STREX	PM30 TOTEX	PM30 PMTW	PMIO PMRW F	JATOT GEMP	CO2 RUNEX		02 STREX	CO2 TOTEX
Region Stanisla	Calendar Year Vehicle Category is 2025 HHDT	Model Year Aggregate	Aggregate	Fuel		54.27216793			14.26005499	Energy Consumption	0.001054957	NUK_BLEK	NUX_SINIX 5.786-01		2.06E-07	MAZS JULIA	7.67E-QB	2.83E-07	2.99E-07	2.155-06	2,836-06	2.33E-07	MED_DELK	R35E-08	4.166-07	1,205-06	6.15E-06	7.765-06	0.142479961	CO2_IDLEX I	0.002032407	0.144511767
Stanisla		Approprie			6136.117788		946234 4791		101389.9504		1 572999509	0.535701861			0.025551008	0.000222216	7.002-08	0.035774724	0.008282662	0.025006482	0.059068367	0.036706311	0.000222200	8.836-08	0.03693962	0.033150648	0.021442091	0.131537358	1452 153521	99 91790435	0.0000,000	1552.060425
Stanisla		Appropria			35.83225067	4489.221127	0	4489.221127		8245.511916	2.371998309	0.923702881	0.31894170	2.418242008	0.023332000	0.00023220		0.003774024	4.355-05	6,805-05	0.000111415	0.020700911	0.000233309		0.02093940	0.000173812	0.000194177	0.000357999	0	0.92790433		1332.00043
Stanisla		Approprie	Aggregate	Natural Gas		9901.231291	9901.231291		1255.827864		0.013637126	0.001979241		0.015610367	2.875-05	3.995-06		3.266-05	9.825-05	0.000525341	0.000656218	3.125-05	4.335-06		3,556-05	0.000392913	0.001500973	0.001929395	15.73964554	1.626944237		17.36658977
Stanisla	15 2025 LDA	Aggregate	Aggregate	Gaspline	185607.264	7390051.875	7390051.875		854957,4901		0.307622221		0.23715293	0.54477536	0.008948084		0.001786596	0.01073468	0.016292276	0.027000435	0.05402739	0.009731858		0.001943086	0.001674944	0.065169102	0.0771441	0.153988146	2205.430742		65.7365837	2271.167326
Stanisla	is 2025 LDA	Aggregate	Aggregate	Diesel	468.1685439	14295.16178	14295-16178	0	1969.777197	0	0.002929517			0.002929517	0.00020217	0	0	0.00020217	3.155-05	5.326-05	0.000286902	0.000211311	0	0	0.000211311	0.000126062	0.000152048	0.000489421	3.458670685			3.458670685
Stanisla	is 2025 LDA	Aggregate	Aggregate	Electricity	8307.686727	419521.9784		419521.9784	41536.35428	161970.1087	0				0	0	0	0	0.000924888	0.000707114	0.001632002	0	0	0	0	0.003699551	0.002020326	0.005719876	0			
Stanisla		Aggregate	Aggregate	Plug-in Hybrid	5173.741081			127713.1439		38573.17593			0.002675814		0.000150142	0	4.615-05	0.000196221	0.000548821	0.000410715	0.001155757	0.000163293	0	5.015-05	0.000213408	0.002195285	0.001173471	0.003582164	38.87578321		1.535140621	40.41092383
Stanisla		Aggregate	Aggregate	Gaspline				0		0	0.094605211		0.038382563	0.132987775	0.001086661	0	0.000253913	0.001340574	0.001224255	0.002384555	0.004949383	0.001181843	0	0.000276153	0.001457996	0.004897019	0.006813014	0.013169029	199.6658018		7.404830492	207.0706322
Stanisla		Aggregate	Aggregate	Diesel					28.97945341	0	0.000185678			0.000185678	2.646-05	0	0	2.646-05	2.476-07	5.436-07	2.726-05	2.766-05	0	0	2.766-05	9.895-07	1.556-06	3.025-05	0.047976483			0.047976483
Stanisla		Aggregate				1271.175881			123.0966211	490.7788058	0				0	0	0	0	2.805-06	2.146-06	4.945-06	0	0	0	0	1.126-05	6.115-06	1.735-05	0			0
Stanisla		Aggregate	Aggregate	Plug-in Hybrid	24.27238347		538.0125428			210.5347381			1.265-00		4.636-07	0	1.516-07	6.156-07	2.725-06	2.046-06	5.376-06	S.D4E-07	0	1.646-07	6.685-07	1.096-05	5.825-06	1.745-05	0.172531605		0.007785259	0.193316865
Stanisla		Aggregate	Aggregate	Gaspline			3157939.149 10360.66361		336329.0841	0	0.249845689		0.14637764		0.003973078		0.00080404	0.004777118	0.006962064	0.012970823	0.024710005	0.004321085		0.000874467	0.005195552	0.027848256	0.037059493	0.0701033302	1171.2649		36.67218411	1207.937084
Stanisla		Aggregate	Aggregate	Diesel		10360.66361	10360.66261	19429.35136	1167.657087 2682.67618	7501.333218	0.000502547			0.000502547	6.206-05			6.205-05	2.28E-05 4.28E-05	4.15E-05 3.27E-05	0.000126326 7.55E-05	6.48E-05			6.485-05	9.145-05	9.346-05	0.00027473	3.310123931			3.310123931
Stanisla Stanisla		Aggregate	Aggregate Aggregate	Electricity Plue-in Hybrid			14771 33346		2692.67618	7501.333218 5305.015993	0.000102725		0.00033738	0.000445134	1.475.05		4.756-06	1.956-05	4.28E-05 7.01E-05	3.27E-05 5.24E-05	7.556-05	1,606-05		5.17E-06	2.126-05	0.000171338	9.346-05	0.000364748	4 666383835		0.229421264	A 89580A129
Stanisla		Approprie	Aggregate			311971.6482	311971.6482		128592,9747	3203.013993	0.067969077	0.000359261			0.000529548		4.336-05	0.000572807	0.00068778	0.009388194	0.010648781	0.000575932		4.706-05	0.00062298	0.002751119	0.02682341	0.03019751	206.2463668	1.145444629	3,649287943	311.0410993
Stanisla		Approprie	Aggregate	Diesel	8747.765801	305646.147	305646.147		110035.8891		0.771641122	0.021630171	0.09317824	0.793271293	0.016821702	0.00025442	4.332-03	0.017076122	0.001010752	0.00919784	0.027284713	0.017582305	0.000365923	4.702-03	0.017849228	0.000731119	0.026279542	0.048170777	214.6476058	1 209956227	2003791903	215.9575621
Stanisla		Appropria				3223.987306		3223.987306		2098.851016	0.77204222	0.02103027		0.793272299	0.000021700	0.0003412		0.017474111	7.115-06	4.855-05	5.565-05	0.017302303	0.000243923		0.0079900228	2.845-05	0.0001386	0.00006703	221.0170038	1.0099300117		210.9973002
Stanisla		Approprie	Aggregate	Gaspine	1467.012593	53933.30412	53933.30412		21856.30179		0.007889788	6.015-01	0.004949221	0.022899093	7,596-05		4.935-06	8.085-05	0.000118903	0.001893534	0.002093222	8.256-05		5.366-06	8,796-05	0.00047561	0.005410067	0.00597355	58.29826047	0.223610446	0.610882534	59.13275345
Stanisla		Approprie			3143.47271	115660.2623	115660.2623	0			0.20930183			0.216726333	0.005247188	9.185-05	0	0.005338953	0.000382481	0.004060672	0.009782106	0.005484442	9,595-05	0	0.005580357	0.001529923	0.011601919	0.018712199	98.24800823	0.746474944		98.99448317
Stanisla	s 2025 LHDT2	Aggregate	Aggregate	Electricity	11.43976433	778.689428		778.689428	151.7022353	498.6515852	0				0	0	0	0	1.725-06	1.376-05	1.546-05	0	0	0	0	6.875-06	3.915-05	4.595-05	0			
Stanisla	s 2025 MCY	Aggregate	Aggregate	Gaspline	10272.42137	55201.47219	55201.47219	0	20544.84274	0	0.039463425		0.003693921	0.043157353	9.962-05	0	7.006-05	0.00006956	6.085-05	0.000255567	0.000485976	0.000106271	0	7.436-05	0.000180615	0.000243397	0.00073019	0.001154203	11.21953607		1.22325066	12.44292473
Stanisla	s 2025 MDV	Aggregate	Aggregate	Gaspline	77317.82875	2667412.24	2663412.24		346307.1594	0	0.31465429		0.188343594	0.502997886	0.003465203	0	0.000797604	0.004252806	0.005880637	0.011412028	0.021545472	0.003768713	0	0.000856586	0.004625298	0.023522549	0.032605796	0.060753643	1224.43539		42.37666232	1266.912052
Stanisla		Aggregate	Aggregate	Diesel	1198.896454	44211.86657	44211.86657		5491.692956	0	0.004536654			0.004536654	0.000334698	0	0	0.000334698	9.756-05	0.000189238	0.000621406	0.000349831	0	0	0.000349831	0.000389882	0.000540679	0.001290392	19.27795938			19.27795938
Stanisla		Aggregate							2954.002223	8248.057707	0				0	0	0	0	4.715-05	3.606-05	8.305-05	0	0	0	0	0.000188393	0.000102716	0.000291109	0	0		0
Stanisla		Aggregate			487.8506886	23292.7111	11076.94678			3689.524912	8.206-05		0.000252312		1.436-05	0	4.596-06	1.896-05	5.146-05	3.846-05	0.000108721	1.565-05	0	4.996-06	2.066-05	0.000205407	0.000109642	0.00033583	3.552191181		0.214852918	3.757044099
Stanisla		Aggregate				10160.80344	10160.80344		116.8742696	0	0.005218441		5.646-00	0.005274804	1.876-05		5.046-08	1.885-05	3.366-05	0.000176592	0.000228985	2.046-05		5.486-08	2.046-05	0.000134404	0.000504549	0.000659391	21.84210926		0.004072453	21.84618171 5.688732911
Stanisla		Aggregate							54.75514442 10553,78063		0.02818702	5.066-01			0.000703386 3.53E-05		5.766-06	0.000703386 4.105-05	2.11E-05 8.46E-05	8.275-05	0.000807161	0.00073519 3.84E-05		6.275-06	0.00073519 4.466-05	8.431-05	0.00023628			0.31270913	0.534445798	5.688732911 51.52818752
Stanisla Stanisla		Aggregate			527.4780405 4877.538193		228538.6133		58108.90637		0.011830212				0.002663055	0.000126964	5.744-06	0.002790019	0.000755762	0.0009974122	0.00057017	0.002793466	0.000132705	6.276-06	0.002916171	0.000338339	0.001270113	0.001653093	50.68103259 281.7925297	11.93455411	0.536665798	293,7270838
Stanisla		Approprie	Aggregate		29.36276474	2165.99114	220300.0133		488.4692587	2359.368649	0.2/17/49463	0.00001341	0.229313031	0.0000000000000000000000000000000000000	0.002003033	0.000124904		0.002790019	7.166-06	1,895-05	2,605-05	0.002783400	0.000232703		0.002910171	2,875-05	5.396-05	8.266-05	244.792.4497	11.99939411		290.7270000
Stanisla		Approprie	Aggregate	Natural Gas	51.99470418		7616 910677		377.1123278	2000.00000	0.000383391	0.000405845		0.00069636	4.035-06	1.275-06		5.305-06	8.656-06	4.625-05	6.025-05	4.385-06	1 385.06		5.765.06	3.465.05	0.000132002	0.000172381	2 866167956	0.343623089		3 308791044
Stanisla		Appropria			137,8163306		5698.858535		2757.429044		0.004132022	9.745-01	0.00131625		6.215-06	0	8.385-07	7.055-06	1.885-05	9.875-05	0.000124583	6.755-06	0	9.125-07		7.545-05	0.000281974	0.00036502	11.10858192	0.057805869	0.099181498	11.26556928
Stanisla	is 2025 OBUS	Aggregate	Aggregate	Diesel	143.2618426	9448.642267	9448.642267		1640.586012		0.022834014	0.001793310	0.002860321	0.027487658	0.000494722	3.025-06		0.000497738	3.125-05	0.000205703	0.000734687	0.000517090	3.155-06		0.000520244	0.000124984	0.000587722	0.00123295	14.29269963	0.374552139		14.65725077
Stanisla	is 2025 OBUS	Aggregate	Aggregate	Electricity	0.605747958	52.14361693		52,14361693	12.11980514	57,84208978	0							0	1.725-07	4.525-07	6.245-07					6.905-07	1.296-06	1,985-06				
Stanisla	is 2025 OBUS	Aggregate	Aggregate	Natural Gas	3.34794153	167.6350842	167,6350942	0	29.79578961		3,215-05	5.575-00		3.776-05	2.125-07	1,685-08		2.285-07	5.546-07	2.985-06	3,775-06	2.306-07	1,825-08		2.486-07	2,225-06	8.536-06	1,105-05	0.186084933	0.004529267		0.1906132
Stanisla	s 2025 SBUS	Aggregate	Aggregate	Gaspline	204.2228307	10463.4007	10463.4007	0	\$16.8913228	0	0.003817197	0.00020747	0.000718154	0.004742921	8.425-06	0	4.185-07	8.835-06	2.316-05	0.000181325	0.000213226	9.155-06	0	4.556-07	9.615-06	9.235-05	0.000518071	0.00061995	9.524040349	0.593771223	0.050935202	10.16874677
Stanisla	s 2025 SBUS	Aggregate	Aggregate	Diesel	487.7559279	11055.02489	11055.02489	0	7062.705836	0	0.044764941	0.011596187	0.003884191	0.060245329	0.000244717	9.566-06	0	0.000254272	3.665-05	0.000291577	0.000482408	0.000255792	9.995-06	0	0.000265769	0.000146233	0.000547264	0.000959366	13.93549689	1.215662301		15.15115919
Stanisla		Aggregate	Aggregate	Electricity	2.785288674	82.06254727				86.44924916	0				0	0	0	0	2.555-07	7.115-07	9.666-07	0	0	0	0	1.025-06	2.035-06	3.055-06	0			
Stanisla	n 2025 SBUS	Aggregate	Aggregate	Natural Gas	101.4921042	2527.924991	2527.824881		1469.605669	0	0.001265498	0.000582323		0.001847922	9.415-06	1.455-06	0	1.095-05	8.365-06	4.385-05	6.306-05	1.025-05	1.576-06	0	1.185-05	3.346-05	0.000125159	0.000170408	3.412984589	0.468160978		3.881145566
Stanisla		Aggregate	Aggregate		19.00321644	1060.263895	1060.263895		76.01286577	0	0.000326129		8.905-00		1.215-06	0	6.106-08	1.276-06	3.376-06	4.415-05	4.875-05	1.325-06	0	6.635-08	1.385-06	1.355-05	0.000126008	0.000140878	2.009045629	0	0.009131981	2.01917761
Stanisla		Aggregate			54.38130989		6321.492846		217.5252396	0	0.002099045			0.002093045	3.806-05	0	0	3.805-05	4.656-05	0.000268278	0.000352744	3.975-05	0	0	3.976-05	0.000185873	0.000766508	0.000992096	8.291802191			8.291902191
Stanisla		Aggregate	Aggregate		5.046756939	101.2376355			20.18702775	176.4819127									1.005-06	2.155-06	3.155-06					4.025-06	6.146-06	1.025-05				
Stanisla	s 2025 UBUS	Aggregate	Aggregate	Natural Gas	71.48297978	6000.146058	6000.146058	0	285.9319191	0	0.001169602			0.001169602	1.076-06			1.076-06	4.185-05	0.00025464	0.000297482	1.115-06			1.116-06	0.000167103	0.000727543	0.000895761	6.941658384			6.941658384

Source: EMFAC2021 (v1.0.1) Emissions Inventory
Region Type: County
Region: Stanislaus
Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Vehicle Classificat Units: miles/day1			Trips, kWh/day for	Energy Consumpti	on, tons/day for	Emissions, 1000 g	pillons/day for Fuel	Consumption																									
CHI RUNEX	CW INEX	CHI STREX	CHA TOTEX	N2O RUNEX	N2O IDLEY	N2O STREX	NOO TOTEY	ROG RUNEX	ROG IDLEX	ROG STREX	ROG TOTEX	ROG DIURN	ROG HOTSDAK	ROG RUNLOSS	ROG TOTAL	TOG RUNEX	TOG IDLEX	TOG STREX	TOG TOTEX	TOG DIURN T	TOG HOTSOAK	TOG RUNLOSS	TOG TOTAL	CD RUNEX	co inity	CO STREX	CD TOTEX	SOX RUNEX	SOX IDLEX S	ony crasty o	SON TOTEX	NH2 RUNEX	Fuel Consumption
2.395-05		2,625-09		2.366-05		1.105-06		0.000150508		1.425-08	0.000050522	2.315-05	6,075-06	5.446-05	0.00023411			1,565-08		2.315-05	6,075-06	5.446-05	0.000903224	0.005344182				1.415-06		2.015-08	1.436-06	2.415-06	0.005238585
0.000650785	0.002024007	0	0.002674791	0.228797221	0.005740531	0	0.244527752	0.014011219	0.043576307	0	0.057587527				0.05758752	0.015950707	0.049606309	0	0.065559016				0.065559016	0.065076614	0.638368527		0.703445141	0.013751006	0.000946068		0.014697094	0.203312494	138,6449429
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
	0.005145535	0	0.030367893	0.00320863	0.000331663	0	0.003540293	0.000718819	8.325-05	0	0.000901987	0	0	0	0.000801987	0.026149648	0.005262388	0	0.031412035	0	0	0	0.031412035	0.136503752	0.01182903	0	0.148331782	0	0	0	0	0.009353425	2.007312903
0.016842919	0	0.065429726		0.036269935		0.03114991	0.063419845	0.062169951		0.295061585	0.357231536	0.335862045	0.090499996	0.23539912	1.018992693			0.323055296	0.413773542	0.335862045	0.090499996	0.23539912		6.460708323	0	2.897327965		0.021802928	0	0.000649873	0.022452801	0.285329659	239.4917568
1.695-05	0	0	1.695-05	0.000544905		0	0.000544915	0.000364114		0	0.000964114		0	0	0.000964114	0.00041452		0	0.00041452	0	0	0	0.00041452	0.004818493	0		0.004818493	3.286-05		0	3.285-05	4.885-05	0.309961682
0	0		0	0		0		0		0			0	0				0	0		0	0		0	0		0	0		0	0	0	0
0.000126133		0.000984098		0.000164499		0.000489805		0.000396182		0.002972806	0.004369988	0.00294312	0.001028815	0.000940371	0.00928229-			0.004350818	0.004928925	0.00294312	0.001028815	0.000940371		1.141970581		0.03050923		0.000384327		1.52E-05 7.32E-05	0.000399503	0.005237721	4.261281426 21.83533944
1.585-06		0.010475302	1.585-06	7.566-06		0.004901274	7.566-06	3.415-05		0.05433052	3.415-05	0.076892579	0.019034916	0.096272821	3.416-01			0.061423008	3.885-05	0.076892579	0.019034916	0.056272821		0.000195307		0.529586653	0.000195307	4.555-07		7.424-05	4.555-07	3.835-07	0.00428572
1.581-06			1.581-06	7.564-06			7.566-06	3.411-G5			2.418-05				2.412-0	7.881-05			A.881-05				A.88E-05	0.000195.807			0.000195.007	4.554-07			4.556-07	2.831-07	0.00428572
5.566-07		4.595-06	5.146-06	7,206-07		2.275-06	2,995-06	1.766-06		1,865-05	2.046-05	8.096-06	2,696-06	2.305-06	3.356-0	2.575-06		2.046-05	2,305-05	8.095-06	2,696-06	2.306-06	3.616.05	0.000285235		0.000043133	0.000138368	1.715-06		7.705-08	1.785-06	2.496-05	0.019014188
0.009992867		0.035269588		0.021428045		0.01582693		0.039306273		0.164792461	0.204100724	0.162817747	0.040768513	0.115639998	0.52333699			0.180427002	0.237785541	0.162817747	0.040268513	0.115630000	0.557011799			1.555613156		0.011579146		0.000362542	0.011941688	0.126641515	127,3754563
7.475-06			7.475-06	0.000521511		0	0.000521511	0.000160736		0	0.000060736		0	0	0.000160736	0.000182987		0	0.000182987		0	0		0.001516614			0.001516614	3.146-05		0	3.146-05	3.546-05	0.29569206
				0			0	0		0	0		0					0	0				0	0			0	0			0	0	0
1.505-05		0.000123383	0.00013843	1.955-05		6.116-05	8.065-05	4.766-05		0.000500051	0.000548606	0.000242499	7.886-05	7.075-05	0.0009405	6.946-05		0.000548588	0.00061798	0.000242499	7.885-05	7.075-05	0.002009943	0.007714626		0.00384686	0.011561486	4.615-05	ō	2.275-06	4.845-05	0.000672687	0.516256429
0.003030905	0.001113558	0.004864051	0.009008513	0.003836023	2.996-05	0.007407697	0.011272627	0.015002582	0.004116754	0.024209407	0.043328743	0.031786757	0.007521955	0.041772073	0.124409520	0.021891732	0.006007158	0.026506254	0.054405144	0.031786757	0.007521955	0.041772073	0.135485929	0.397553189	0.035734212	0.422904684	0.856192085	0.003027557	1.135-05	3.616-05	0.003074958	0.01544825	32.79889528
0.003558593	4.925-05	0	0.003607753	0.033917919	0.000206384	0	0.034024202	0.076614404	0.001058386	0	0.077672791		0	0	0.077672790	0.087220406	0.001204902	0	0.069425308		0	0	0.088425308	0.225552758	0.008772452		0.23432521	0.002033895	1.245-05	0	0.002046308	0.04987902	19.29140348
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
0.000296638	0.000190643	0.000759849		0.000496601	5.085-06	0.001221229		0.001345	0.000689325	0.003656561	0.005690886	0.00400294	0.000966162	0.005021393	0.01568138			0.004003474	0.006971956	0.00400294	0.000966162	0.005021393	0.016962452	0.047363272	0.006096251	0.072725121		0.000576338	2.215-06	6.046-06	0.000584587	0.002674072	6.235474966
0.001125326	1.775-05	0	0.001142992	0.015479004	0.000117607	0	0.015596621	0.024227609	0.000380327	0	0.024607935		0	0	0.024607935	0.027581522	0.000432977	0	0.029014498	0	0	0	0.029014498	0.066788736	0.003152344		0.069941079	0.00093095	7.076-06	0	0.000938023	0.021843064	8.843137967
0.011063288		0.004618542		0.002614786						0.034679177	0.109537595	0.06476565	0.082089356			0.088786765			0.126476188	0.06476565	0.082089356		0.363158169	0.893456661				0.000110917				0.000522927	1.312080321
0.011658282		0.043274405		0.002634786		0.000213619		0.074858419		0.221572306	0.270652611	0.206035407	0.049620466	0.089826975	0.346219576			0.037689423	0.314205551	0.206035407	0.049620466	0.089826975		3 435801608		0.190608804		0.01210479		1.21E-05 0.000418936	0.00012301	0.101675018	133,5837481
3,225-05		0.042274405	3,225-05	0.00303725		0.016490979	0.00903725	0.000694172		0.2215/2306	0.000694172	0.200035407	0.009620000	0.148697298	0.00069417			0.242593643	0.000790269	0.200025407	0.049620466	0.148697298	0.000790269			1.653123019	0.011877046	0.01210479		0.000418466	0.000182668	0.000151079	1.722092475
				0		0		0										0	0					0			0	0				0	
1.156-05		9.256-05	0.000103946	1.496-05		4.595-05	6.085-05	3,625-05		0.000374705	0.000410905	0.000214915	7,406-05	6.325-05	0.000763025	5.285-05		0.000410254	0.000463078	0.000214915	7.406-05	6.325-05	0.000815202	0.005872606		0.002876825	0.008749431	3.516-05		2.125-06	3,726-05	0.00051283	0.397230093
0.000181896		4.865-06		0.000312231		5.835-06		0.000796979		2.075-05	0.000817683	0.007148773	0.001742231	4.116-05	0.00974979			2.275-05	0.001185618	0.007148773	0.001742231	4.115-05	0.010117732		ō	0.000446882		0.000215931	ō	4.035-08	0.000215972	0.000502907	2.303652565
3.756-05	0	0	3.756-05	0.000896362		0	0.000896262	0.000807521		0	0.000807521	0	0	0	0.00080752	0.000919309		0	0.000919309	0	0	0	0.000919309	0.002766454			0.002766454	5.396-05		0	5.395-05	0.000650044	0.508172257
0.000385741	0.000150696	0.000533711	0.001070148	0.000590232	4.215-06	0.000966542		0.001931572	0.000589374	0.002955774	0.005476721	0.00083628	0.000420671	0.0033026	0.01103627	0.002818546		0.003236201	0.00691476	0.00183628	0.000420671	0.0033026	0.012474311	0.040649199	0.008795732	0.062612858	0.112057789	0.000501034	3.096-06	5.286-06	0.000509409	0.001268187	5.433582991
0.0002684	5.786-05	0	0.000326205	0.044396528	0.001880294	0	0.046276822	0.005778584	0.001244531	0	0.007023114		0	0	0.007023114	0.006579478	0.001416803	0	0.007995281	0	0	0	0.007995281	0.023751328	0.039620974	0	0.063372302	0.002668407	0.000113013	0	0.00278142	0.053554463	26.23852404
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
0.002306097	0.001031374	0	0.003337472	0.000584287	6.985-05	0		3.296-05	1.476-05	0	4.775-05		0	0	4.776-00			0	0.003406135	0	0	0	0.003406135		0.002472763			0		0		0.003057612	0.370887304
0.000116887	2.886-05	0.000115934		0.00018975	7.396-07	9.265-05		0.00057905	0.000113038	0.000637189	0.001329277	0.000579297	0.000127107	0.00061382	0.003649490			0.000697641	0.001707536	0.000579297	0.000127107	0.00061382	0.00902775	0.012514029	0.000875227	0.013843909		0.00010982	5.71E-07 3.55E-06	9.815-07	0.000111372	0.000292396	1.187940205
5.556-05	5.936-06		6.146-05	0.002250345	5.900-05		0.002309256	0.001194729	0.000127623		0.001322352				0.00132235	0.001360008	0.000145289		0.001505397				0.001505397	0.00347668	0.001969643		0.005446323	0.000135249	3.556-06		0.000138795	0.002166131	1.309326405
0.000147754	1.446-05		0.000162162	3.796-05	9.235-07	0	3.896-05	2.115-06	2.066-07	0	2.325-06				2.325-0	0.000150794	1.475-05	0	0.000065498	0			0.000065498	0.000606233	3.256-05		0.000638716			0		0.000195873	0.022031979
7.545-05	0.000561224	5 945.05		0.000241046	1.946-05	6,695-05		0.000359141	0.002392903	0.00033082	0.003082763	0.000379405	0.000104465	0.000205533	0.00377216		0.003491572	0.000362206	0.004377935	0.000379405	0.000104465	0.000305533	0.005067738	0.000000233	0.018496936	0.000095511	0.035299656	9.425-05	5,876-06	5.045.07	0.000100528	0.000199979	1.072281642
3,405-05	4.245-06	2.942-03	3,825-05	0.002195543		0.092-03	0.002387071	0.000731249	9.125-05	0.00033082	0.00082247	0.000079100	0.000204493	0.000203333	0.0009224			0.000362200	0.000996319	0.0000179103	0.000204493	0.000203333	0.000007218		0.002461752	0.000033311	0.00170446	0.000131961	1.156-05	0.042-07	0.000143472	0.001735629	1.353447048
3.422-03	0		0.822-03	0.002199999	0.000191102		0.002387072	0.000711149		0	0.00002240				0.0008224	0.00002472	0.000000000	0	0.000999319	0			0.000999919	0.00242707	0.002401732		0.00075000	0.000131340	1.131-03	0	0.0000439172	0.001789029	2.33997,048
0.008685275	0.001615948	ő	0.010301223	0.000695759	9.546-05	ő	0.000791197	0.000124095	2.315-05	0	0.000047184			ő	0.00014718	0.00886396	0.001649194	0	0.010513153	0		o o	0.010513153	0.02926718	0.002717039	ŏ	0.030984219			0	ě	0.002953636	0.448601232
4.095-06		1.215-05	1.625-05	2.706-05		7.466-06	3.446-05	1.396-05		5.305-05	6.705-05	2.196-05	6.616-06	1.235-05	0.000107796	2.036-05		5.816-05	7.845-05	2.196-05	6.615-06	1.235-05	0.00011923	0.000438331	0	0.000795734	0.001234066	1.996-05		9.035-08	2.005-05	5.266-05	0.212814307
1.855-05			1.855-05	0.001306377		0	0.001306377	0.000398911		0	0.000398911		0	0	0.00039891	0.000454129		0	0.000454129	0	0		0.000454129	0.00043143		0	0.00043143	7.865-05		0	7.865-05	0.001533015	0.740703405
0	0	0		0		0		0		0	0		0	0	4			0	0	0	0	0	0		0		0	0		0		0	0
0.013851701	0	0	0.013851701	0.001415302		0	0.001415102	0.000197913		0	0.000197913	0	0	0	0.00019791	0.014136677		0	0.014136677	0	0	0	0.014136677	0.167285597		0	0.167285597	0		0		0.006415606	0.802349835

Air Quality and Greenhouse Gas Analysis Frito-Lay Modesto, California

APPENDIX B.3 OFFROAD OUTPUT FILES

Model Output: OFFROAD2021 (v1.0.1) Emissions Inventory

Region Type: Air District

Region: San Joaquin Valley Unified APCD Calendar Year: 2020, 2022, 2023, 2025 Scenario: All Adopted Rules - Exhaust

Vehicle Classification: OFFROAD2021 Equipment Types

Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower Bin	Fuel	HC_tpd	ROG_tpd	TOG_tpd
San Joaquin Valley Unified APCD	2020	Cargo Handling Equipment - Rail Yard Tractor	Aggregate	Aggregate	Diesel	0.000380197	0.000460038	0.000547483
San Joaquin Valley Unified APCD	2020	O Industrial - Forklifts	Aggregate	Aggregate	Diesel	0.022035853	0.026663382	0.031731629

Model Output: OFFROAD2021 (v1.0.1) Emissions Inventory

Region Type: Air District

Region: San Joaquin Valley Unified APCD Calendar Year: 2020, 2022, 2023, 2025 Scenario: All Adopted Rules - Exhaust

Vehicle Classification: OFFROAD2021 Equipment Types

Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption	Total_Activity_hpy	Total_Population	Horsepower_Hours_hhpy
0.030246966	0.002176935	5.279131205	8.04E-05	7.40E-05	4.88E-05	4.31E-05	171275.598	54138.68724	36.34300647	8489337.688
0.211207955	0.229416229	31.03622815	0.015901788	0.014629645	0.000286284	0.000253314	1006936.242	1077288.988	1463.075672	96404966.11

Air Quality and Greenhouse Gas Analysis Frito-Lay Modesto, California

APPENDIX C PERMITTED OPERATION TABLES

Table C.1. Summary of Actual Emissions from Proposed Units

Frito-Lay, Inc. Modesto, CA

		СО		NO _x		PM ¹		SO _x		VOC		TA	.Cs ²	Amn	nonia ²
Process	Equipment Description	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
	Starch Bag Dump Station					9.36E-05	3.50E-04			-					
	Buttermilk Bag Dump Station					9.88E-07	3.70E-06			-					
	Onion Powder Bag Dump Station					5.76E-07	2.16E-06			-					
	Starch Use Bin					9.36E-05	3.50E-04			-					
N 1010 VV V	Buttermilk Use Bin					9.88E-07	3.70E-06			-					
N-1919-XX-X OFS Process Line	Onion Powder Use Bin					5.76E-07	2.16E-06								
OF STETOCESS LINE	Hopper					9.62E-05	3.60E-04								
	Blender					9.62E-05	3.60E-04								
	Fryer					5.00E-02	1.87E-01			5.45E-03	2.04E-02				
	Ambient Air Cooler					2.32E-01	8.68E-01								
	Seasoner					1.38E-01	5.30E-01								
N-1919-XX-X Receiving and Storage (Cornmeal)	Cornmeal Silo					5.80E-06	2.17E-05								
N-1919-XX-X Boiler	Boiler	3.69E+00	1.38E+01	1.52E-01	5.68E-01	3.72E-01	1.39E+00	2.94E-02	1.10E-01	2.69E-01	1.01E+00	4.75E-01	1.78E+00	4.45E-01	1.67E+00
	Corn Clean System					3.10E-04	1.16E-03								
N-1919-XX-X	Fryer					6.79E-01	2.54E+00			4.89E-03	1.83E-02				
FCC Process Line	Ambient Air Cooler					1.08E-01	4.05E-01								
rec riocess Line	Seasoner					1.18E-01	4.51E-01								
N-1919-XX-X Receiving and Storage (Corn)	Corn Silo					7.76E-04	2.90E-03								
	Total	3.69	13.82	0.15	0.57	1.70	6.38	0.03	0.11	0.28	1.05	0.48	1.78	0.45	1.67

Abbreviations:

lb - pound

OFS - onion fried snack

FCC - fried corn chip $PM_{2.5}$ -particulate matter less than 2.5 microns in diameter

 $\ensuremath{\mathrm{PM}_{10}}$ - particulate matter less than 10 microns in diameter hr - hour

SO_x - sulfur oxide compounds NO_x - nitrogen oxide compounds (NO + NO_2)

TACs - toxic air contaminants tpy - tons per year

PM - particulate matter VOC - volatile organic compound

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 $^{^{1}}$ All PM assumed to include total PM, PM $_{10}$, and PM $_{2.5}$.

² Ammonia emissions are shown separately, but the TAC emissions also include contributions from ammonia.

Table C.2. Summary of Potential Emissions from Proposed Units

Frito-Lay, Inc. Modesto, CA

		C	: 0	N	O _x	P	M ¹	S	O _x	V	ос	TA	.Cs ²	Ammonia ²	
Process	Equipment Description	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
	Starch Bag Dump Station					7.56E-03	3.31E-02								
	Buttermilk Bag Dump Station				-	1.66E-04	7.27E-04		-				-		
	Onion Powder Bag Dump Station					7.56E-05	3.31E-04								
	Starch Use Bin				1	7.56E-03	3.31E-02		-						
N 1010 VV V	Buttermilk Use Bin				-	1.66E-04	7.27E-04		-				-		
N-1919-XX-X OFS Process Line	Onion Powder Use Bin					7.56E-05	3.31E-04								
OF STEREOSS LINE	Hopper					9.76E-04	4.28E-03								
	Blender			-		1.78E-04	7.79E-04		-						
	Fryer					5.00E-02	2.19E-01			1.15E-02	5.03E-02				
	Ambient Air Cooler					2.32E-01	1.02E+00								
	Seasoner					1.38E-01	6.05E-01						-		
N-1919-XX-X Receiving and Storage (Cornmeal)	Cornmeal Silo			-1		2.16E-05	9.46E-05	-							-1-
N-1919-XX-X Boiler	Boiler	3.69E+00	1.62E+01	1.52E-01	6.64E-01	3.72E-01	1.63E+00	2.94E-02	1.29E-01	2.69E-01	1.18E+00	4.75E-01	2.08E+00	4.45E-01	1.95E+00
	Corn Clean System					3.10E-04	1.36E-03								
N-1919-XX-X	Fryer					6.79E-01	2.98E+00			5.36E-03	2.35E-02				
FCC Process Line	Ambient Air Cooler					1.08E-01	4.74E-01								
	Seasoner					1.18E-01	5.15E-01								
N-1919-XX-X Receiving and Storage (Corn)	Corn Silo					7.76E-04	3.40E-03								
	Total	3.69	16.17	0.15	0.66	1.71	7.51	0.03	0.13	0.29	1.25	0.48	2.08	0.45	1.95

Notes:

Abbreviations:

FCC - fried corn chip PM_{2.5} -particulate matter less than 2.5 microns in diameter

 ${\rm hr}$ - ${\rm hour}$ ${\rm PM}_{10}$ - ${\rm particulate}$ matter less than 10 microns in diameter

OFS - onion fried snack tpy - tons per year

PM - particulate matter VOC - volatile organic compound

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 $^{^{1}\,\}mathrm{All}\;\mathrm{PM}$ assumed to include total PM, $\mathrm{PM}_{10}\text{,}$ and $\mathrm{PM}_{2.5}\text{.}$

 $^{^{2}}$ Ammonia emissions are shown separately, but the TAC emissions also include contributions from ammonia.

Table C.3. Emissions Calculations for Proposed Units

Frito-Lay, Inc. Modesto, CA

Process	Equipment Description	Equipment Quantity	Actual Throughput ¹	Throughput Unit	Emission Factor, PM ^{2,3,4,5,6,7,8}	Units	Emission Factor, VOC ⁹	Units	Control Device	Control Efficiency ^{10,11,12,13}	Pollutant Controlled	PM Emissions (lb/hr)	Actual PM Emissions (tpy)	VOC Emissions (lb/hr)	Actual VOC Emissions (tpy)
	Starch Bag Dump Station	1	52	lb/hr	1.80E-06	lb PM / lb conveyed			Bag Dump Filter	99.99%	PM	9.36E-05	3.50E-04		
	Buttermilk Bag Dump Station	1	25	lb/hr	3.95E-08	lb PM / lb conveyed			Bag Dump Filter	99.99%	PM	9.88E-07	3.70E-06		
	Onion Powder Bag Dump Station	1	32	lb/hr	1.80E-08	lb PM / lb conveyed			Bag Dump Filter	99.99%	PM	5.76E-07	2.16E-06		
	Starch Use Bin	1	52	lb/hr	1.80E-06	Ib PM / Ib conveyed			IQC Filter	99.99%	PM	9.36E-05	3.50E-04		
N-1919-XX-X	Buttermilk Use Bin	1	25	lb/hr	3.95E-08	lb PM / lb conveyed			IQC Filter	99.99%	PM	9.88E-07	3.70E-06		
OFS Process Line	Onion Powder Use Bin	1	32	lb/hr	1.80E-08	Ib PM / Ib conveyed			IQC Filter	99.99%	PM	5.76E-07	2.16E-06		
	Hopper	1	2,217	lb/hr	4.34E-08	Ib PM / Ib conveyed			IQC Filter	99.99%	PM	9.62E-05	3.60E-04		
	Blender	1	2,217	lb/hr	4.34E-08	Ib PM / Ib conveyed			MQC Filter	99.99%	PM	9.62E-05	3.60E-04		
	Fryer	1	2,566	lb/hr	0.05	lb/hr	0.085	lb/ton	Oil Mist Eliminator	95%	>2 um PM, VOC	5.00E-02	1.87E-01	5.45E-03	2.04E-02
	Ambient Air Cooler	1	2,566	lb/hr	0.23	lb/hr						2.32E-01	8.68E-01		
N-1919-XX-X Receiving and Storage (Cornmeal)	Cornmeal Silo	1	3,625	lb/hr	0.032	lb/ton grain loaded			IQC Filter	99.99%	PM	5.80E-06	2.17E-05		
N-1919-XX-X Boiler	Boiler	1	46	MMBtu/hr	7.6	lb/MMscf	5.5	lb/MMscf	SCR	80%	NOx	3.72E-01	1.39E+00	2.69E-01	1.01E+00
N 1010 W V	Corn Clean System	1	18,000	lb/hr	0.005	gr/dcsf			Fabric Filter, MERV 10	85%	PM	3.10E-04	1.16E-03		
N-1919-XX-X FCC Process Line	Fryer	1	2,300	lb/hr	0.68	lb/hr	0.085	lb/ton	Oil Mist Eliminator	95%	>2 um PM, VOC	6.79E-01	2.54E+00	4.89E-03	1.83E-02
Tec Trocess Enic	Ambient Air Cooler	1	2,300	lb/hr	0.11	lb/hr					PM	1.08E-01	4.05E-01		
N-1919-XX-X Receiving and Storage (Corn)	Corn Silo	1	45,000	lb/hr	0.005	gr/dcsf			Fabric Filter, MERV 10	85%	PM	7.76E-04	2.90E-03		

Notes

365 day/year, potential

¹⁴ Density of cornmeal obtained from Aqua Calc. Available: https://www.aqua-calc.com/page/density-table/substance/cornmeal-coma-and-blank-degermed-coma-and-blank-unenriched-coma-and-blank-yellow. Accessed: December 2021.

Conversion Factors:		Abbreviations:	
	1000 mg/g	EPA - Environmental Protection Agency	OFS - onion fried snack
	2000 lb/ton	FCC - fried corn chip	PM - particulate matter
	7000 grains/lb	g - gram	scf - standard cubic feet
	41.43 lb/scf, cornmeal density ¹⁴	hr - hour	SCR - selective catalytic reduction
		IQC - insertable quick change	SJVAPCD - San Joaquin Valley Air Pollution Control District
Operating Schedule:		lb - pound	tpy - tons per year
	24 hr/day	MERV - minimum efficiency reporting value	VOC - volatile organic compound
	312 day/year, actual	mg - milligram	yr - year

MQC - mini quick change

¹ Throughputs for the equipment provided by the facility.

² Emission factors for dump stations and bins were provided by the facility. Starch, buttermilk, onion powder, and cornmeal all have different associated emission factors shown are broken out by material. The emission factors for the hopper and blender are calculated as averages of each material's emission factor, weighted by throughput of that material into the equipment.

³ The PM emission factor for the FCC fryer is based on a March 2001 source test from Frito-Lay's Rancho Cucamonga facility, and scaled based on the differences in capacity at the two facilities. The fryer at that facility is equipped with an oil mist eliminator, so this emission factor is controlled.

⁴ The emission factor for the FCC and OFS ambient air coolers is based on a source test from Frito-Lay's Kern facility in July 2005. This emission factor was scaled based on ambient air cooler capacity at the facilities.

⁵ Emission factor for the cornmeal silo is obtained from AP-42. The emission factor used is for grain receiving, and was found in AP-42, Table 9.9.1-1. Available: https://www3.epa.gov/ttn/chief/ap42/ch09/final/c9s0909-1.pdf. Accessed: December 2021.

⁶ Boiler emission factors obtained from SCAQMD AER Reporting Tool Help and Support Manual. Available: https://www.aqmd.gov/docs/default-source/planning/annual-emission-reporting/combustion-emission-factors-2014.pdf?sfvrsn=8. Accessed: December 2021.

⁷ Emission factors for the corn clean system and corn silo as provided by the facility. These emission factors are controlled, so control devices shown in this tab are for informational purposes only, and do not factor into the emissions calculations for these pieces of equipment.

⁸ The PM emission factor for the OFS fryer is based on April 2008 and October 2010 source tests from Frito-Lay's Rancho Cucamonga facility, and scaled based on the differences in capacity at the two facilities. The fryer at that facility is equipped with an oil mist eliminator, so this emission factor is controlled.

⁹ Fryer VOC emission factors for VOC were obtained from AP-42, Table 9.13.3-2. Available: https://www3.epa.gov/ttn/chief/ap42/ch09/final/c9s13-3.pdf. Accessed: December 2021.

¹⁰ The facility will utilize bag dump stations equipped with screeners. Per Shick Esteve, these stations are equipped with pleated filters composed of spunbound polyester ePTFE membranes. The National Filter Media Corporation claims that ePTFE membranes have an initial fractional efficiency of 99.98% for particulates 0.3 – 0.4 microns in diameter, and an initial fractional efficiency of 100% if the particulate matter size is greater than 0.55 microns in diameter. Based on the expected size of particulates at the facility, using a control efficiency of 99.99% is reasonable for this equipment type. Available: https://shickesteve.com/wp-content/uploads/2018/10/Bag-Dump-1.pdf and https://www.nfm-filter.com/assets/files/NFM-FRACTIONAL-EFFICIENCY-CHART.pdf. Accessed: December 2021.

The facility proposes to use Shick Esteve Model 8-1250 Insertable Quick Change (IQC) filters to control several emission units. Per manufacturer specification, this model uses an ePTFE membrane and has an efficiency rating of at least 99.9%. The National Filter Media Corporation claims that ePTFE membranes have an initial fractional efficiency of 99.98% for particulates 0.3 – 0.4 microns in diameter, and an initial fractional efficiency of 100% if the particulates at the facility, using a control efficiency of 99.99% is reasonable for this equipment type. Available: https://shickesteve.com/wp-content/uploads/2018/10/IQC-Cut-Sheet-1.pdf and https://www.nfm-filter.com/assets/files/NFM-FRACTIONAL-EFFICIENCY-CHART.pdf. Accessed: December 2021.

¹² The facility will control the blender with a mini quick change (MQC) filter. Per Shick Esteve, their filters are spun polyester with PTFE membranes, and have efficiency ratings exceeding 99.99%. Available: https://shickesteve.com/wp-content/uploads/2018/10/MQC-Filter.pdf. Accessed: December 2021.

¹³ Per EPA, SCR is capable of reducing NOx by 70-90%. Available: https://www3.epa.gov/ttncatc1/dir1/fscr.pdf. Accessed: December 2021.

Table C.4. Proposed Unit Potential to Emit

Frito-Lay, Inc. Modesto, CA

Process	Equipment Description	Equipment Quantity	Design Capacity ¹	Design Capacity Unit	Emission Factor, PM ^{2,3,4,5,6,7,8}	Units	Emission Factor, VOC ⁹	Units	Control Device	Control Efficiency ^{10,11,12,13}	Pollutant Controlled	PM Emissions (lb/hr)	Potential PM Emissions (tpy)	VOC Emissions (lb/hr)	Potential VOC Emissions (tpy)
	Starch Bag Dump Station	1	4,200	lb/hr	1.80E-06	lb PM / lb conveyed			Bag Dump Filter	99.99%	PM	7.56E-03	3.31E-02		
	Buttermilk Bag Dump Station	1	4,200	lb/hr	3.95E-08	lb PM / lb conveyed			Bag Dump Filter	99.99%	PM	1.66E-04	7.27E-04	-	
	Onion Powder Bag Dump Station	1	4,200	lb/hr	1.80E-08	lb PM / lb conveyed			Bag Dump Filter	99.99%	PM	7.56E-05	3.31E-04	-	
	Starch Use Bin	1	4,200	lb/hr	1.80E-06	lb PM / lb conveyed			IQC Filter	99.99%	PM	7.56E-03	3.31E-02		
N-1919-XX-X	Buttermilk Use Bin	1	4,200	lb/hr	3.95E-08	lb PM / lb conveyed			IQC Filter	99.99%	PM	1.66E-04	7.27E-04		
OFS Process Line	Onion Powder Use Bin	1	4,200	lb/hr	1.80E-08	lb PM / lb conveyed			IQC Filter	99.99%	PM	7.56E-05	3.31E-04		
	Hopper	1	22,500	lb/hr	4.34E-08	lb PM / lb conveyed			IQC Filter	99.99%	PM	9.76E-04	4.28E-03		
	Blender	1	4,100	lb/hr	4.34E-08	lb PM / lb conveyed			MQC Filter	99.99%	PM	1.78E-04	7.79E-04		
	Fryer	1	5,404	lb/hr	0.05	lb/hr	0.085	lb/ton	Oil Mist Eliminator	95%	>2 um PM, VOC	5.00E-02	2.19E-01	1.15E-02	5.03E-02
	Ambient Air Cooler	1	5,404	lb/hr	0.23	lb/hr						2.32E-01	1.02E+00		
N-1919-XX-X Receiving and Storage (Cornmeal)	Cornmeal Silo	1	13,500	lb/hr	0.032	lb/ton grain loaded			IQC Filter	99.99%	PM	2.16E-05	9.46E-05		
N-1919-XX-X Boiler	Boiler	1	46	MMBtu/hr	7.6	lb/MMscf	5.5	lb/MMscf	SCR	80%	NOx	3.72E-01	1.63E+00	2.69E-01	1.18E+00
N 4040 VVV V	Corn Clean System	1	18,000	lb/hr	0.005	gr/dcsf			Fabric Filter, MERV 10	85%	PM	3.10E-04	1.36E-03		
N-1919-XX-X FCC Process Line	Fryer	1	2,522	lb/hr	0.68	lb/hr	0.085	lb/ton	Oil Mist Eliminator	95%	>2 um PM, VOC	6.79E-01	2.98E+00	5.36E-03	2.35E-02
TCC FIOCESS LINE	Ambient Air Cooler	1	2,522	lb/hr	0.11	lb/hr					PM	1.08E-01	4.74E-01		
N-1919-XX-X Receiving and Storage (Corn)	Corn Silo	1	45,000	lb/hr	0.005	gr/dcsf			Fabric Filter, MERV 10	85%	PM	7.76E-04	3.40E-03	-1-	

Notes:

Abbreviations:

¹⁴ Density of cornmeal obtained from Aqua Calc. Available: https://www.aqua-calc.com/page/density-table/substance/cornmeal-coma-and-blank-degermed-coma-and-blank-unenriched-coma-and-blank-yellow. Accessed: December 2021.

	_	
Conversion	Factors:	

1000 mg/g EPA - Enviror
2000 lb/ton FCC - fried co
7000 grains/lb g - gram
41.43 lb/scf, cornmeal density¹⁴ hr - hour

365 day/year, potential

EPA - Environmental Protection Agency

FCC - fried corn chip

g - gram

hr - hour

OFS - onion fried snack

PM - particulate matter

scf - standard cubic feet

SCR - selective catalytic reduction

IQC - insertable quick change SJVAPCD - San Joaquin Valley Air Pollution Control District

Operating Schedule:

24 hr/day MERV - minimum efficiency reporting value 312 day/year, actual mg - milligram

lb - pound

MQC - mini quick change

VOC - volatile organic compound yr - year

tpy - tons per year

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¹ Design capacities for the equipment provided by the facility.

² Emission factors for dump stations and bins were provided by the facility. Starch, buttermilk, onion powder, and cornmeal all have different associated emission factors shown are broken out by material. The emission factors for the hopper and blender are calculated as averages of each material's emission factor, weighted by throughput of that material into the equipment.

³ The PM emission factor for the FCC fryer is based on a March 2001 source test from Frito-Lay's Rancho Cucamonga facility, and scaled based on the differences in capacity at the two facilities. The fryer at that facility is equipped with an oil mist eliminator, so this emission factor is controlled.

⁴ The emission factor for the FCC and OFS ambient air coolers is based on a source test from Frito-Lay's Kern facility in July 2005. This emission factor was scaled based on ambient air cooler capacity at the facilities.

⁵ Emission factor for the cornmeal silo is obtained from AP-42. The emission factor used is for grain receiving, and was found in AP-42, Table 9.9.1-1. Available: https://www3.epa.gov/ttn/chief/ap42/ch09/final/c9s0909-1.pdf. Accessed: December 2021.

⁶ Boiler emission factors obtained from SCAQMD AER Reporting Tool Help and Support Manual. Available: https://www.aqmd.gov/docs/default-source/planning/annual-emission-reporting/combustion-emission-factors-2014.pdf?sfvrsn=8. Accessed: December 2021.

⁷ Emission factors for the corn clean system and corn silo as provided by the facility. These emission factors are controlled, so control devices shown in this tab are for informational purposes only, and do not factor into the emissions calculations for these pieces of equipment.

⁸ The PM emission factor for the OFS fryer is based on April 2008 and October 2010 source tests from Frito-Lay's Rancho Cucamonga facility, and scaled based on the differences in capacity at the two facilities. The fryer at that facility is equipped with an oil mist eliminator, so this emission factor is controlled.

⁹ Fryer VOC emission factors were obtained from AP-42, Table 9.13.3-2. Available: https://www3.epa.gov/ttn/chief/ap42/ch09/final/c9s13-3.pdf. Accessed: December 2021.

¹⁰ The facility will utilize bag dump stations equipped with screeners. Per Shick Esteve, these stations are equipped with pleated filters composed of spunbound polyester ePTFE membranes. The National Filter Media Corporation claims that ePTFE membranes have an initial fractional efficiency of 99.98% for particulates 0.3 – 0.4 microns in diameter, and an initial fractional efficiency of 100% if the particulate matter size is greater than 0.55 microns in diameter. Based on the expected size of particulates at the facility, using a control efficiency of 99.99% is reasonable for this equipment type. Available: https://shickesteve.com/wp-content/uploads/2018/10/Bag-Dump-1.pdf and https://www.nfm-filter.com/assets/files/NFM-FRACTIONAL-EFFICIENCY-CHART.pdf. Accessed: December 2021.

¹¹ The facility proposes to use Shick Esteve Model 8-1250 Insertable Quick Change (IQC) filters to control several emission units. Per manufacturer specification, this model uses an ePTFE membrane and has an efficiency rating of at least 99.9%. The National Filter Media Corporation claims that ePTFE membranes have an initial fractional efficiency of 99.98% for particulates 0.3 – 0.4 microns in diameter, and an initial fractional efficiency of 100% if the particulates at the facility, using a control efficiency of 99.99% is reasonable for this equipment type. Available: https://shickesteve.com/wp-content/uploads/2018/10/IQC-Cut-Sheet-1.pdf and https://www.nfm-filter.com/assets/files/NFM-FRACTIONAL-EFFICIENCY-CHART.pdf. Accessed: December 2021.

¹² The facility will control the blender with a mini quick change (MQC) filter. Per Shick Esteve, their filters are spun polyester with PTFE membranes, and have efficiency ratings exceeding 99.99%. Available: https://shickesteve.com/wp-content/uploads/2018/10/MQC-Filter.pdf. Accessed: December 2021.

¹³ Per EPA, SCR is capable of reducing NOx by 70-90%. Available: https://www3.epa.gov/ttncatc1/dir1/fscr.pdf. Accessed: December 2021.

Table C.5. Seasoner Emissions

Frito-Lay, Inc. Modesto, CA

		S	easoner Parameters				Actual E	missions	Potential Emissions	
Equipment	Throughput ¹ (lb/hr)	Estimated Particulate Matter Air Release ²	Uncontrolled Hourly Emissions (lb/hr)	Wet Scrubber Control Efficiency ³	Controlled Hourly Emissions (lb/hr)	Controlled Daily Emissions (lb/day)	Annual Emissions (lb/yr)	Annual Emissions (tpy)	Annual Emissions (lb/yr)	Annual Emissions (tpy)
OFS Seasoner	2,763	0.10%	2.76	95%	0.14	3.32	1,061	0.53	1,210	0.61
FCC Seasoner	2,350	0.10%	2.35	95%	0.12	2.82	902	0.45	1,029	0.51

Notes:

Operating Schedule:

24 hours/day

320 days/year, actual

365 days/year, potential

Conversion Factor:

2000 lb/ton

Abbreviations:

FCC - fried corn chip

hr - hour

lb - pound

OFS - onion fried snack

PM₁₀ - particulate matter less than 10 microns in diameter

PTE - potential to emit

tpy - tons per year

yr - year

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¹ Throughputs as provided by the facility.

² Estimated PM air release from similar equipment at another Frito-Lay facility.

³ The type of seasoning scrubber used by the facility is a Tri-Mer 10H. Specification sheets for this equipment type indicate that it can control particles greater than two microns in diameter by 95%. Based on the expected size range of the particulates on the OFS line, a control of 95% was used for this equipment. A copy of the specification sheet for this scrubber can be found in Appendix D.

Table C.6. Criteria Pollutant and Greenhouse Gas Emissions from Combustion

Frito-Lay, Inc. Modesto, CA

		CAPs												GH	Gs			
	CC	D ¹	NC) _x ²	PM	I ³	so) _x ³	vo	C ³	C	024	CI	H ₄ ⁴	N	₂ O ⁴	co)₂e⁴
	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(MT/yr)	(lb/hr)	(MT/yr)	(lb/hr)	(MT/yr)	(lb/hr)	(MT/yr)
Actual Emissions	3.69	13.82	0.15	0.57	0.37	1.39	0.03	0.11	0.27	1.01	5,871	19,942	0.11	0.38	0.11	0.37	5,906	20,061
Potential Emissions	3.69	16.17	0.15	0.66	0.37	1.63	0.03	0.13	0.27	1.18	5,871	23,330	0.11	0.45	0.11	0.43	5,906	23,468

Notes:

Boiler Specifications:

50 MMBtu natural gas/hr

Operating Schedule:

24 hours/day

312 days/year, actual 365 days/year, potential

Conversion Factors:

1,020 BTU/scf Natural Gas

2,000 lb/ton

2,204.62 lb/MT

NO_x Emission Calculations:

CO Emission Calculations:

2.5 ppm 100 ppm $3 \%O_2$ $3 \%O_2$

8710 scf/MMBtu, F_d for natural gas 8710 scf/MMBtu, F_d for natural gas

507,542 stack flow rate, scfh 507,542 stack flow rate, scfh

 $\begin{array}{ccc} 46 \text{ lb NO}_{x} \text{/lb mol} & 28 \text{ lb CO/lb mol} \\ 385 \text{ scf/lb mole at STP} & 385 \text{ scf/lb mole at STP} \end{array}$

 $0.15 \text{ lb/hr NO}_{x}$ 3.69 lb/hr CO

Abbreviations:

AER - annual emission reporting SCAQMD - South Coast Air Quality Management District

BTU - British thermal unit scf - standard cubic foot

CO - carbon monoxide scfh - standard cubic feet per hour

hr - hour SJVAPCD - San Joaquin Valley Air Pollution Control District

lb - pound SO_x - sulfur oxides

MMBtu - million British thermal units STP - standard temperature and pressure

 NO_x - nitrogen oxides (NO + NO_2) tpy - tons per year

O₂ - oxygen VOC - volatile organic compound

PM - particulate matter yr - year

ppm - parts per million

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¹CO emissions calculated based on an emissions limit of 100 ppm, as indicated in an SCAQMD BACT ruling for a 39.9 MMBtu watertube boiler with low NO_x burner and SCR. Available: http://www.agmd.gov/docs/default-source/bact/laer-bact-determinations/agmd-laer-bact/2-2-18_laer_lbva_56244_boiler.pdf?sfvrsn=14. Accessed: December 2021.

²NO_x emissions calculated based on SJVAPCD Rule 4320, which indicates that boilers with a total rated heat input between 20 and 75 MMBtu/hr will need to meet a NOx limit of 2.5 ppmv on and after December 31, 2023. The boiler is expected to begin operation in 2025. Available: https://www.valleyair.org/rules/currntrules/r4320.pdf. Accessed: December 2021.

³ PM, SOx, and VOC emissions calculated using emission factors from SCAQMD AER Reporting Tool Help and Support Manual.

⁴ GHG emission factors are CalEEMod® version 2020.4.0 defaults for natural gas combustion at nonresidential land uses. Available: http://www.aqmd.gov/docs/default-source/caleemod/user-guide-2021/appendix-d2020-4-0-full-merge.pdf?sfvrsn=12, Table 8.2. Accessed: December 2021.

Table C.7. Toxic Air Contaminant Emissions from Combustion

Frito-Lay, Inc. Modesto, CA

			Actual Annu	al Emissions	Potential Annual Emissions			
CAS No.	Pollutant	Emissions ^{1,2} (lb/hr)	Emissions (lb/yr)	Emissions (tpy)	Emissions (lb/yr)	Emissions (tpy)		
75-07-0	acetaldehyde	1.52E-04	1.14E+00	5.68E-04	1.33E+00	6.64E-04		
107-02-8	acrolein	1.32E-04	9.89E-01	4.95E-04	1.16E+00	5.79E-04		
7664-41-7	ammonia	4.45E-01	3.33E+03	1.67E+00	3.90E+03	1.95E+00		
71-43-2	benzene	2.84E-04	2.12E+00	1.06E-03	2.49E+00	1.24E-03		
100-41-4	ethyl benzene	3.38E-04	2.53E+00	1.26E-03	2.96E+00	1.48E-03		
50-00-0	formaldehyde	6.02E-04	4.51E+00	2.25E-03	5.27E+00	2.64E-03		
110-54-3	hexane	2.25E-04	1.69E+00	8.43E-04	1.97E+00	9.86E-04		
91-20-3	naphthalene	1.47E-05	1.10E-01	5.50E-05	1.29E-01	6.43E-05		
1151	PAH (excluding naphthalene)	4.89E-06	3.66E-02	1.83E-05	4.29E-02	2.14E-05		
115-07-1	propylene	2.59E-02	1.94E+02	9.71E-02	2.27E+02	1.14E-01		
108-88-3	toluene	1.30E-03	9.71E+00	4.85E-03	1.14E+01	5.68E-03		
1330-20-7	xylenes	9.64E-04	7.22E+00	3.61E-03	8.44E+00	4.22E-03		
	Total	4.75E-01	3.56E+03	1.78E+00	4.16E+03	2.08E+00		

Notes:

¹TAC emission factors are SJVAPCD defaults for natural gas combustion for external combustion equipment with a rating between 10 and 100 MMBtu/hr. Available: https://www.valleyair.org/busind/pto/emission_factors/emission_factors_idx.htm. Accessed: December 2021.

²Ammonia emission factor obtained from SCAQMD AB2588 Supplemental Instructions. Emission factor used assumes the boiler utilizes selective catalytic reduction. Available: http://www.aqmd.gov/docs/default-source/planning/annual-emission-reporting/supplemental-instructions-for-ab2588-facilities.pdf. Accessed: December 2021.

Boiler Specifications:

50 Heat Input (MMBtu/hr)

0.0489 Natural Gas Usage (MMscf/hr)

Operating Schedule:

24 hours/day

312 days/year, actual

365 days/year, potential

Conversion Factors:

1,020 BTU/scf Natural Gas

2,000 lb/ton

Abbreviations:

AB - Assembly Bill PAH - polycyclic aromatic hydrocarbons

BTU - British thermal unit SCAQMD - South Coast Air Quality Management District

CAS - Chemical Abstracts Service scf - standard cubic foot

hr - hour SJVAPCD - San Joaquin Valley Air Pollution Control District

Ib - pound TAC - toxic air contaminant

MMBtu - million British thermal units tpy - tons per year

MMscf - million standard cubic feet yr - year

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APPENDIX D NON-PERMITTED OPERATION TABLES

Table D.1. CAP and GHG Emissions from Area Sources

Frito-Lay Inc. Modesto, CA

	Incr	emental CA	P Emission	ns¹ (tons/y	ear)	Incremental GHG Emissions 1 (MT/year)							
Area Source Subcategory	ROG	СО	SO ₂	Exhaust PM ₁₀	Exhaust PM _{2.5}	NBio-CO ₂	CO ₂	CH₄	N ₂ O	CO₂e			
Architectural Coating	0.18	-						-	-				
Consumer Products	1.02												
Landscaping	0.00	0.01	0.00	0.00	0.00	0.01	0.01	0.00		0.01			
Total	1.20	0.01	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01			

Notes:

Abbreviations:

 $\begin{array}{ll} \text{CalEEMod}^{\circledR} \text{ - California Emissions Estimator Model} & \text{MT - metric ton} \\ \text{CAP - criteria air pollutant} & \text{N}_2\text{O - nitrous oxide} \\ \end{array}$

 CH_4 - methane NO_x - nitrogen oxide compounds (NO + NO_2)

CO - carbon monoxide $PM_{2.5}$ -particulate matter less than 2.5 microns in diameter CO_2 - carbon dioxide PM_{10} - particulate matter less than 10 microns in diameter

 CO_2e - carbon dioxide equivalents ROG - reactive organic gas

GHG - greenhouse gas SO₂ - sulfur dioxide

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¹ Emissions estimated using CalEEMod® version 2020.4.0.

Table D.2. Electricity Carbon Intensity Factor Determination

Frito-Lay Inc. Modesto, CA

Energy Delivered [MWh]										
	2016	2017	2018	Average	Units					
Total Energy Delivery ¹	83,407,514	81,945,110	80,368,675		MWh					
from renewables	27,524,479	27,041,886	31,343,783		MWh					
from non-renewables	55,883,034	54,903,224	49,024,892		MWh					
% of Total Energy From Renewables ²	33%	33%	39%							
% of Total Energy From Non-Renewables	67%	67%	61%							
CO ₂ Intensity Factor per Total Energy Delivered ³	294	210	206	237	lbs CO ₂ /MWh delivered					
CO ₂ Intensity Factor per Total Non-Renewable Energy ⁴	438	314	338	364	lbs CO ₂ /MWh delivered					

Estimated Intensity Factors for Total Energy Delivered ⁵										
2020 RPS (33%) ⁶	293.7	210.4	226.6	243.56	lbs CO ₂ /MWh delivered					
2022 RPS (38.7%) ⁶	268.7	192.5	207.3	222.84	lbs CO ₂ /MWh delivered					
2023 RPS (41.5%) ⁶	256.4	183.7	197.8	212.66	lbs CO ₂ /MWh delivered					
2025 RPS (47.2%) ⁶	231.4	165.8	178.6	191.94	lbs CO ₂ /MWh delivered					
2026 RPS (50%) ⁶	219.2	157.0	169.1	163.07	lbs CO ₂ /MWh delivered					

Conversion Factor:

1000 MWh/GWh

Notes:

Abbreviations:

CEC - California Energy Commission

CO₂ - carbon dioxide

GWh - gigawatt-hour

lbs - pounds

MWh - megawatt-hour

RPS - Renewable Portfolio Standard

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¹ The total energy delivered in years 2016, 2017, and 2018 determined using the CEC's Electricity Consumption by Entity database. Available: http://www.ecdms.energy.ca.gov/elecbyutil.aspx. Accessed: December 2021.

² The percentages of energy from renewable sources in 2016, 2017, and 2018 are from power content labels for the respective years. Available: https://www.energy.ca.gov/filebrowser/download/516, https://www.energy.ca.gov/filebrowser/download/628, and https://www.energy.ca.gov/sites/default/files/2020-01/2018_PCL_PG_and_E.pdf. Accessed: December 2021.

³ PG&E carbon intensities obtained from The Climate Registry. Available: https://www.theclimateregistry.org/our-members/cris-public-reports/. Accessed: December 2021.

 $^{^4}$ The emissions metric presented here is calculated based on the total CO_2 emissions divided by the energy delivered from non-renewable sources.

 $^{^{5}}$ The intensity factors for default RPS assumption are estimated by multiplying the percentage of energy delivered from non-renewable energy by the CO_2 emissions per total non-renewable energy metric calculated above. The estimate provided here assumes that renewable energy sources do not result in any CO_2 emissions.

⁶ RPS for 2020 and 2026 based on California Senate Bill (SB) 100. RPS for 2022, 2023 and 2025 determined by linearly interpolating between the 2020 RPS (33%) and the 2026 RPS (50%), as listed in SB 100. Available: https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180SB100. Accessed: December 2021.

Table D.3. Electricity Required from On-Road Mobile Sources

Frito-Lay Inc. Modesto, CA

				Project		
Electric Emission	HHDT VMT ²	Electricity Required for HHDTs	Electric Emission	VMT ²	for MHDTs	Total Electricity Required for HHDTs and MHDTs
Factor ¹ (kWh/mile)	(miles/day)	(MWh/year)	Factor ² (kWh/mile)	(miles/day)	(MWh/year)	(MWh/year)
1.837	4,444	2,979	1.089	469	186	3,166

Conversion Factors:

365 days/year 1000 kWh/MWh

Notes:

Abbreviations:

EMFAC - EMission FACtor Model

HHDT - heavy heavy-duty truck

kWh - kilowatt hours

MHDT - medium heavy-duty truck

MWh - megawatt hours

VMT - vehicle miles travelled

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¹ Emission factors for electric HHDT and MHDT vehicles calculated using EMFAC2021 v1.0.1. Available: https://arb.ca.gov/emfac/emissions-inventory. Accessed: December 2021.

² VMT calculated on the expected trip lengths and number of trips expected for each vehicle class. Additional calculation details can be found in **Table D.11.**

Table D.4. Electricity Required from Off-Road Mobile Sources

Frito-Lay Inc. Modesto, CA

Equipment Type	OFFROAD Diesel Emission Factor ^{1,2} (gal/hr)	Equivalent Electric Emission Factor ³ (gal/hr)		OFFROAD Equipment Electricity Demand (kW)		Annual Electricity Usage (MWh/yr)
Forklifts	0.93	0.25	839	0.25	2,920	8.6
Yard Tractors	3.18	1.18	4,022	1.18	2,920	10.3

Conversion Factors and Constants:

3.8 EER value for an electric forklift⁴

2.7 EER value for electric cargo handling equipment⁴

137,381 energy content of diesel, Btu/gallon

3,412 Btu/kWh

12 quantity of electric forklifts

3 quantity of electric yard tractors

1,000 kWh/MWh

Notes:

Abbreviations:

Btu - british thermal unit kW - kilowatt

CARB - California Air Resources Board kWh - kilowatt hour

EER - energy economy ratio LCFS - Low Carbon Fuel Standard

EMFAC - EMission FACtor Model MWh - megawatt hour

gal - gallon yr - year

hr - hour

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¹ Emission factors for forklifts and yard tractors were estimated using OFFROAD2021 v1.0.1. Forklifts were modeled as equipment type "Industrial - Forklifts," and the yard tractors were modeled as equipment type "Cargo Handling Equipment - Rail Yard Tractor." Available: https://arb.ca.gov/emfac/emissions-inventory. Accessed: December 2021.

² Fuel consumptions were reported in OFFROAD in gallons of diesel equivalent.

³ It is assumed that off-road electric equipment operates for eight hours per day, and spends the remaining hours cooling down and charging.

⁴ Energy Economy Ratios were used to convert diesel consumption to equivalent electricity usage. These ratios were obtained from CARB's LCFS regulation. Yard tractors were classified as cargo-handling equipment for the purposes of these calculations. Available: https://ww2.arb.ca.gov/sites/default/files/2020-07/2020_lcfs_fro_oal-approved_unofficial_06302020.pdf. Accessed: December 2021.

Table D.5. Annual Facility Electricity Usage

Frito-Lay Inc. Modesto, CA

Sector	Load Type	Annual Electricity (MWh/year)					
	General/Building/HVAC/Utilities/Lighting	26,280					
	Cleaning System	250					
Building Energy ¹	Compressors	6,893					
	Process and Packaging	36,612					
	Warehouse Operations	6,031					
Mobile ²	Electric On-Road (MHDT and HHDT) Vehicles	3,166					
Mobile	Electric Off-Road Equipment - Forklifts and Yard Tractors	19					
	Electricity Required	79,250					
Solar Generation	On-Site Solar Carports	1,595					
Joial Generation	On-Site Solar Panels	9,727					
	Electricity Generated	11,321					
Tota	Total Annual Facility Electricity Requirements						

Notes:

Abbreviations:

HHDT - heavy heavy-duty truck

HVAC - heating, ventilation, and air conditioning

MHDT - medium heavy-duty truck

MWh - megawatt hours

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 $^{^{1}}$ Electricity usage from building energy as provided by the facility and external consultants.

² Electricity usage from on-road and off-road mobile sources derived in **Tables D.3 and D.4.**

Table D.6. GHG Emissions from Facility Electricity Usage

Frito-Lay, Inc. Modesto, CA

Incremental Annual	Incremental Electricity Emissions ^{2,3}								
Electricity Use ¹	CO ₂	CH₄	N ₂ O	CO₂e					
(MWh)		(MT/	yr)						
121,691	11,319	1.82	0.22	11,430					

Conversion Factors:

2204.62 lb/MT

Notes:

Abbreviations:

CalEEMod® - California Emissions Estimator Model lb - pound

CEC - California Energy Commission MT - metric ton

CH₄ - methane MWh - megawatt hour

 ${\rm CO_2}$ - carbon dioxide ${\rm N_2O}$ - nitrous oxide ${\rm CO_2e}$ - carbon dioxide equivalents ${\rm sqft}$ - square feet

kWh - kilowatt hour yr - year

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¹ Detailed electricity usages broken out by sector shown in **Table D.5.**

² CO₂ emission factor is based on the RPS carbon intensity value as calculated in **Table D.2**.

 $^{^3}$ CH $_4$ and N $_2$ O emission factors are CalEEMod $^{\otimes}$ version 2020.4.0 defaults for nonresidential land uses. Available: http://www.aqmd.gov/docs/default-source/caleemod/user-guide-2021/appendix-d2020-4-0-full-merge.pdf?sfvrsn=12, Table 1.2. Accessed: December 2021.

Table D.7. Natural Gas Required from On-Road Mobile Sources

Frito-Lay Inc. Modesto, CA

EMFAC HHDT NG Emission Factor ¹ (gal/mile)	Project NG HHDT VMT ² (miles/day)	NG Required for HHDTs (MMBtu/year)	EMFAC MHDT NG Emission Factor ¹ (gal/mile)		NG Required for MHDTs (MMBtu/year)	Total NG Required for HHDTs and MHDTs (MMBtu/year)
0.203	12,698	129,085	0.142	469	3,333	132,418

Conversion Factors:

365 days/year 137,381 energy content of diesel,³ Btu/gallon 1,000,000 Btu/MMBtu

Abbreviations:

Btu - british thermal unit MHDT - medium heavy-duty truck EMFAC - EMission FACtor Model MMBtu - million British thermal units

gal - gallon NG - natural gas

HHDT - heavy heavy-duty truck VMT - vehicle miles travelled

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¹ Emission factors for electric HHDT and MHDT vehicles calculated using EMFAC2021 v1.0.1. Available: https://arb.ca.gov/emfac/emissions-inventory. Accessed: December 2021.

² VMT calculated on the expected trip lengths and number of trips expected for each vehicle class. Additional calculation details can be found in **Table D.11**.

³ Though trucks will run on natural gas, fuel usages from EMFAC are reported in gallons of diesel equivalent. Thus, the energy content of diesel fuel was used to calculate the fuel requirements for these trucks.

Table D.8. CAP and GHG Emissions from Facility Natural Gas Usage

Frito-Lay, Inc. Modesto, CA

Incremental Annual		Inci	remental C	AP Emissio	Incremental GHG Emissions ²					
Natural Gas Use ¹	ROG	СО	SO ₂	NO _x	PM ₁₀	PM _{2.5}	CO ₂	CH₄	N ₂ O	CO₂e
(MMBtu/yr)			(tons	s/yr)			(MT	/yr)		
96,274	0.52	3.96	0.03	4.72	0.36	0.36	5,138	0.10	0.09	5,168

Conversion Factors:

2,000 lb/ton 1,000,000 Btu/MMBtu 2,204.62 lb/MT 1,020 Btu/scf Natural gas

Notes:

Abbreviations:

Btu - British thermal unit MMBtu - million British thermal units

 $\label{eq:caleendown} \mbox{CaleEMod}_{\$} \mbox{ - California Emissions Estimator Model} \qquad \mbox{MT - metric ton} \\ \mbox{CAP - criteria air pollutant} \qquad \mbox{N}_2\mbox{O - nitrous oxide} \\$

CEC - California Energy Commission NO_x - nitrogen oxide compounds (NO + NO_2)

 ${
m CH_4}$ - methane ${
m PM_{2.5}}$ -particulate matter less than 2.5 microns in diameter ${
m CO}$ - carbon monoxide ${
m PM_{10}}$ - particulate matter less than 10 microns in diameter

CO₂ - carbon dioxide ROG - reactive organic gas

 ${\rm CO_2e}$ - carbon dioxide equivalents ${\rm SO_2}$ - sulfur dioxide GHG - greenhouse gas ${\rm sqft}$ - square feet

lb - pound yr - year

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¹ Natural gas usage required for building operation as provided by the facility. Total usage shown here includes additional natural gas required for on-road mobile sources as calculated in **Table D.7.**

² CAP and GHG emission factors are CalEEMod® version 2020.4.0 defaults for nonresidential land uses. Available: http://www.aqmd.gov/docs/default-source/caleemod/user-guide-2021/appendix-d2020-4-0-full-merge.pdf?sfvrsn=12, Table 8.2. Accessed: December 2021.

Table D.9. Passenger Car Trip Determinations

Frito-Lay, Inc. Modesto, CA

	Commuter Trip Length ¹ (miles/trip)	Increase in Peak Daily Trips ² (trips/day)
Passenger Cars	10.8	672

Notes:

Abbreviations:

CalEEMod® - California Emissions Estimator Model

DTC - dorito tortilla chip

FCC - fried corn chip

FCP - fried cheese puff

OFS - onion fried snack

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¹ Estimated mileage is a CalEEMod[®] default for home-work trips in Stanislaus County, taken from Table 4.2 of Appendix D. Available: http://www.aqmd.gov/docs/default-source/caleemod/user-guide-2021/appendix-d2020-4-0-full-merge.pdf?sfvrsn=12. Accessed: December 2021.

² The number of daily one-way passenger car trips was provided by the facility. The facility expects to add 336 employees as part of the project. The increase in daily passenger car trips in was estimated assuming all employees drive to work and back each day.

Table D.10. Truck Trip Length Determination

Frito-Lay, Inc. Modesto, CA

Distribution Center City ¹	Distribution Center Location ¹	Distance from Facility to Distribution Center ² (miles)	City Population ³	Region	Average Trip Length, Weighted by Population	Percentage of Trips to Each Region ⁴	Overall Trip Length Average (miles/trip)
Fresno	2929 S. Elm	96.7	530,093				
San Jose	1774 Automation Parkway	85.4	7,753,000	Northern California	87	65%	
Santa Rosa	3033 Coffey Lane	148	177,586				173
Bakersfield	6320 District Boulevard	207	383,579				1/3
Torrance	1500 Francisco Street	324	10,040,000	Southern California	332	35%	
San Diego	4953 Paramount Drive	425	1,426,000				

Notes:

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¹ Distribution center locations provided by the facility.

² Distance from facility to distribution centers measured using Google Earth Pro.

³ City populations based on 2018 data from the United States Census Bureau. Distribution centers in San Jose and Torrance are using populations of their larger surrounding areas: the San Francisco Bay Area and Los Angeles County, respectively.

⁴ It is assumed that 65% of truck deliveries from the Modesto facility will go to Northern California, and 35% of truck deliveries will go to Southern California.

Table D.11. Summary of Baseline and Project Mobile Scenarios

Frito-Lay, Inc. Modesto, CA

				Truck Da	ıta		Pa	ssenger Car D	ata
Scenario	Calendar Year	Cumulative Number of Daily Trips for HHDT ¹	Average HHDT Trip Length (miles/trip) ²	Cumulative Number of Daily Trips for MHDT ³	Average MHDT Trip Length (miles/trip) ⁴	Fleet Mix ⁵	Cumulative Number of Daily Trips ⁶	Average Trip Length (miles/trip) ⁷	Fleet Mix ⁸
						38 NG Trucks, 12 Diesel			
Baseline	2020	76	173	12	30	Trucks, 6 Diesel Box Trucks	1,082	10.8	EMFAC Default
						40 NG Trucks, 14 Electric			
Post-Project	2025	99	173	16	30	Trucks, 6 Electric Box Trucks	1,754	10.8	EMFAC Default

Notes:

Abbreviations:

CalEEMod - California Emissions Estimator Model LD

DTC - dorito tortilla chip

EMFAC - Emission Factor Model

FCC - fried corn chip

FCP - fried cheese puff HHDT - heavy heavy-duty truck LDA - passenger cars

LDT - light-duty trucks

MDV - medium-duty trucks

MHDT - medium heavy-duty truck

NG - natural gas

OFS - onion fried snack

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¹ Number of daily trips for heavy heavy-duty trucks accounts for inbound and outbound deliveries. These values were based on the increased capacity of each process line expected to be added to the facility.

² Average trip length for heavy heavy-duty trucks as determined in **Table D.10**.

³ Number of daily trips for medium heavy-duty trucks in the baseline based on the assumption that each MHDT takes two trips per day. Number in trips expected after project implementation are scaled based on the increase in heavy-duty trucks during implementation. Note that the box trucks are classified as medium heavy-duty trucks.

⁴ As the box trucks are traveling locally, it was assumed that the box trucks travel approximately 15 miles in each direction per trip.

⁵ Fleet mix in each scenario as described by the Facility.

⁶ According to a data request, there are a total of 541 employees at the facility in the baseline scenario. The facility expects to add 336 employees as part of the project. The number of daily passenger car trips in each scenario was estimated assuming all employees drive to work and back each day.

⁷ The average trip length for passenger cars is based on a CalEEMod default for home-work trips in Stanislaus County, taken from Table 4.2 of Appendix D. Available: http://www.aqmd.gov/docs/default-source/caleemod/user-guide-2021/appendix-d2020-4-0-full-merge.pdf?sfvrsn=12. Accessed: December 2021.

⁸ The passenger vehicle fleet mix for the baseline and post-project scenarios are based on EMFAC2021 v1.0.1 defaults. These include LDA, LDT, and MDV vehicle classes. Available: https://arb.ca.gov/emfac/emissions-inventory. Accessed: December 2021.

Table D.12. Emission Factors for Passenger Cars, CY 2020

Frito-Lay, Inc. Modesto, CA

		Emission Factor		Mobile Emission Factors ¹									
Year	Vehicle Class	Units	ROG	СО	SO ₂	NO _x	PM ₁₀	PM _{2.5}	CO ₂	CH₄	N ₂ O		
2020	Dassanger Vehicles ²	g/mile	0.07	1.38	0.003	0.12	0.02	0.01	341.52	0.005	0.01		
2020	Passenger Vehicles ²	g/trip	1.16	4.96	0.001	0.46	0.00	0.00	90.95	0.11	0.04		

Notes:

Abbreviations:

CH₄ - methane

CO - carbon monoxide CO₂ - carbon dioxide

EMFAC - EMission FACtor model

g - gram

HHDT - heavy-heavy duty truck

LDA - passenger car LDT - light-duty truck

LHDT - light-heavy duty truck

MDV - medium-duty truck

MHDT - medium-heavy duty truck

N₂O - nitrous oxide

 NO_x - nitrogen oxide compounds (NO + NO_2)

 ${\rm PM}_{2.5}$ -particulate matter less than 2.5 microns in diameter ${\rm PM}_{10}$ - particulate matter less than 10 microns in diameter

ROG - reactive organic gas

SO₂ - sulfur dioxide

¹ Emission factors calculated using EMFAC2021 v1.0.1. These emission factors are for passenger cars in Stanislaus County in calendar year 2020. Available: https://arb.ca.gov/emfac/emissions-inventory. Accessed: December 2021.

² Passenger vehicles include LDA, LDT1, LDT2, and MDV vehicle classes.

Table D.13. Heavy Heavy-Duty Truck Emission Factors, CY 2020

Frito-Lay, Inc. Modesto, CA

	Emission Factor				Mobile Em	ission Fac	tors - CY 20)20		
Vehicle Class	Units	ROG	СО	SO ₂	NO _x	PM ₁₀	PM _{2.5}	CO ₂	CH ₄	N ₂ O
	g/mile	0.07	0.30	0.02	3.24	0.17	0.09	1,650	0.00	0.26
Diesel Trucks ¹	g/trip	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00	0.00
	g/idle trip	0.40	5.08	0.01	5.17	0.01	0.01	970	0.02	0.15
	g/mile	0.11	14.86	0.00	1.96	0.17	0.06	1,555	3.00	0.32
NG Trucks ¹	g/trip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	g/idle trip	0.08	8.20	0.00	1.59	0.00	0.00	1,195	4.23	0.24
	g/mile	0.10	11.36	0.00	2.27	0.17	0.07	1,578	2.28	0.30
CY 2020 Truck Scenario ²	g/trip	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
	g/idle trip	0.15	7.45	0.00	2.45	0.00	0.00	1,141	3.22	0.22

CY 2020 Scenario:

38 NG Trucks 12 Diesel Trucks

Notes:

Abbreviations:

CH₄ - methane MDV - medium-duty truck

CO - carbon monoxide NG - natural gas CO_2 - carbon dioxide N_2O - nitrous oxide

CY - calendar year NO_x - nitrogen oxide compounds (NO + NO_2)

EMFAC - EMission FACtor model $PM_{2.5}$ -particulate matter less than 2.5 microns in diameter g - gram PM_{10} - particulate matter less than 10 microns in diameter

LDA - passenger car ROG - reactive organic gas

LDT - light-duty truck SO_2 - sulfur dioxide

¹ Emission factors for diesel and natural gas trucks obtained from EMFAC2021 v1.0.1. These emission factors are for heavy-heavy duty trucks in Stanislaus County in calendar year 2020. Available: https://arb.ca.gov/emfac/emissions-inventory. Accessed: December 2021.

² In CY 2020, the truck fleet that makes deliveries to and from the facility consists of 38 natural gas fueled trucks and 12 diesel trucks.

Table D.14. Emission Factors for Passenger Cars, CY 2022

Frito-Lay, Inc. Modesto, CA

		Emission Factor				Mobile	Emission F	actors ¹			
Year	Vehicle Class	Units	ROG	СО	SO ₂	NO _x	PM ₁₀	PM _{2.5}	CO ₂	CH ₄	N ₂ O
2022	Passangar Vahislas ²	g/mile	0.06	1.15	0.003	0.09	0.02	0.01	327.36	0.004	0.01
2022	Passenger Vehicles ²	g/trip	1.05	4.28	0.001	0.40	0.00	0.00	86.60	0.10	0.04

Notes:

Abbreviations:

CH₄ - methane MDV - medium-duty truck

CO - carbon monoxide MHDT - medium-heavy duty truck

 CO_2 - carbon dioxide N_2O - nitrous oxide

EMFAC - EMission FACtor model NO_x - nitrogen oxide compounds (NO + NO_2)

g - gram $PM_{2.5}$ -particulate matter less than 2.5 microns in diameter PM_{10} - particulate matter less than 10 microns in diameter

LDA - passenger car ROG - reactive organic gas

LDT - light-duty truck SO₂ - sulfur dioxide

LHDT - light-heavy duty truck

¹ Emission factors calculated using EMFAC2021 v1.0.1. These emission factors are for passenger cars in Stanislaus County in calendar year 2022. Available: https://arb.ca.gov/emfac/emissions-inventory. Accessed: December 2021.

² Passenger vehicles include LDA, LDT1, LDT2, and MDV vehicle classes.

Table D.15. Heavy Heavy-Duty Truck Emission Factors, CY 2022

Frito-Lay, Inc. Modesto, CA

	Emission Factor	Mobile Emission Factors - CY 2022										
Vehicle Class	Units	ROG	СО	SO ₂	NO _x	PM ₁₀	PM _{2.5}	CO ₂	CH ₄	N ₂ O		
	g/mile	0.09	13.82	0.00	1.61	0.17	0.06	1,505	2.67	0.31		
NG Trucks ¹	g/trip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	g/idle trip	0.07	8.17	0.00	1.52	0.00	0.00	1,182	4.02	0.24		
	g/mile	0.07	10.50	0.00	1.23	0.13	0.05	1,144	2.03	0.23		
CY 2022 Truck Scenario ²	g/trip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	g/idle trip	0.05	6.21	0.00	1.15	0.00	0.00	898	3.06	0.18		

CY 2022 Totals:

38 NG Trucks
12 Electric Trucks³

Notes:

Abbreviations:

CH₄ - methane MDV - medium-duty truck

CO - carbon monoxide $$\operatorname{NG}$$ - natural gas ${\operatorname{CO}}_2$ - carbon dioxide ${\operatorname{N}}_2{\operatorname{O}}$ - nitrous oxide

CY - calendar year NO_x - nitrogen oxide compounds (NO + NO_2)

EMFAC - EMission FACtor model $PM_{2.5}$ -particulate matter less than 2.5 microns in diameter g - gram PM_{10} - particulate matter less than 10 microns in diameter

LDA - passenger car ROG - reactive organic gas

LDT - light-duty truck SO_2 - sulfur dioxide

¹ Emission factors for diesel and natural gas trucks obtained from EMFAC2021 v1.0.1. These emission factors are for heavy-heavy duty trucks in Stanislaus County in calendar year 2022. Available: https://arb.ca.gov/emfac/emissions-inventory. Accessed: December 2021.

² After 2022, the truck fleet that makes deliveries to and from the facility consists of 38 natural gas fueled trucks and 12 electric trucks.

³ Electric truck emissions are not shown in this table, as the electric trucks will have zero tailpipe emissions.

Table D.16. Emission Factors for Passenger Cars, CY 2023

Frito-Lay, Inc. Modesto, CA

		Emission Factor	Mobile Emission Factors ¹								
Year	Vehicle Class	Units	ROG	СО	SO ₂	NO _x	PM ₁₀	PM _{2.5}	CO ₂	CH ₄	N ₂ O
2022	2023 Passenger Vehicles ²	g/mile	0.05	1.06	0.003	0.08	0.02	0.01	315.40	0.003	0.01
2023		g/trip	1.00	3.99	0.001	0.36	0.00	0.00	83.34	0.09	0.04

Notes:

Abbreviations:

CH₄ - methane MDV - medium-duty truck

CO - carbon monoxide MHDT - medium-heavy duty truck

 CO_2 - carbon dioxide N_2O - nitrous oxide

EMFAC - EMission FACtor model NO_x - nitrogen oxide compounds $(NO + NO_2)$

g - gram $PM_{2.5}$ -particulate matter less than 2.5 microns in diameter HHDT - heavy-heavy duty truck PM_{10} - particulate matter less than 10 microns in diameter

LDA - passenger car ROG - reactive organic gas

LDT - light-duty truck SO₂ - sulfur dioxide

LHDT - light-heavy duty truck

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¹ Emission factors calculated using EMFAC2021 v1.0.1. These emission factors are for passenger cars in Stanislaus County in calendar year 2023. Available: https://arb.ca.gov/emfac/emissions-inventory. Accessed: December 2021.

² Passenger vehicles include LDA, LDT1, LDT2, and MDV vehicle classes.

Table D.17. Heavy Heavy-Duty Truck Emission Factors, CY 2022

Frito-Lay, Inc. Modesto, CA

	Emission Factor	on Factor Mobile Emission Factors - CY 2023									
Vehicle Class	Units	ROG	СО	SO ₂	NO _x	PM ₁₀	PM _{2.5}	CO ₂	CH ₄	N ₂ O	
	g/mile	0.08	13.38	0.00	1.48	0.17	0.06	1,479	2.56	0.30	
NG Trucks ¹	g/trip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	g/idle trip	0.07	8.35	0.00	1.49	0.00	0.00	1,179	3.92	0.24	
	g/mile	0.06	10.03	0.00	1.11	0.13	0.04	1,109	1.92	0.23	
CY 2022 Truck Scenario ²	g/trip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	g/idle trip	0.05	6.26	0.00	1.12	0.00	0.00	884	2.94	0.18	

CY 2022 Totals:

39 NG Trucks

13 Electric Trucks³

Notes:

Abbreviations:

CH₄ - methane MDV - medium-duty truck

CO - carbon monoxide \qquad NG - natural gas \qquad CO $_2$ - carbon dioxide \qquad N $_2$ O - nitrous oxide

CY - calendar year NO_x - nitrogen oxide compounds (NO + NO_2)

EMFAC - EMission FACtor model $PM_{2.5}$ -particulate matter less than 2.5 microns in diameter g - gram PM_{10} - particulate matter less than 10 microns in diameter

LDA - passenger car ROG - reactive organic gas

LDT - light-duty truck SO_2 - sulfur dioxide

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¹ Emission factors for diesel and natural gas trucks obtained from EMFAC2021 v1.0.1. These emission factors are for heavy-heavy duty trucks in Stanislaus County in calendar year 2023. Available: https://arb.ca.gov/emfac/emissions-inventory. Accessed: December 2021.

² After 2023, the truck fleet that makes deliveries to and from the facility consists of 39 natural gas fueled trucks and 13 electric trucks.

³ Electric truck emissions are not shown in this table, as the electric trucks will have zero tailpipe emissions.

Table D.18. Emission Factors for Passenger Cars, CY 2025

Frito-Lay, Inc. Modesto, CA

		Emission Factor	Mobile Emission Factors ¹								
Year	Vehicle Class	Units	ROG	СО	SO ₂	NO _x	PM ₁₀	PM _{2.5}	CO ₂	CH ₄	N ₂ O
2025	2025 Passenger Vehicles ²	g/mile	0.05	0.90	0.003	0.06	0.02	0.01	302.72	0.003	0.01
2023		g/trip	0.89	3.45	0.001	0.32	0.00	0.00	79.82	0.08	0.04

Notes:

Abbreviations:

CH₄ - methane MDV - medium-duty truck

CO - carbon monoxide MHDT - medium-heavy duty truck

 CO_2 - carbon dioxide N_2O - nitrous oxide

EMFAC - EMission FACtor model NO_x - nitrogen oxide compounds (NO + NO_2)

g - gram $PM_{2.5}$ -particulate matter less than 2.5 microns in diameter PM_{10} - particulate matter less than 10 microns in diameter

LDA - passenger car ROG - reactive organic gas

LDT - light-duty truck SO₂ - sulfur dioxide

LHDT - light-heavy duty truck

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¹ Emission factors calculated using EMFAC2021 v1.0.1. These emission factors are for passenger cars in Stanislaus County in calendar year 2025. Available: https://arb.ca.gov/emfac/emissions-inventory. Accessed: December 2021.

² Passenger vehicles include LDA, LDT1, LDT2, and MDV vehicle classes.

Table D.19. Heavy Heavy-Duty Truck Emission Factors, CY 2025

Frito-Lay, Inc. Modesto, CA

	Emission Factor	sion Factor Mobile Emission Factors - CY 2025									
Vehicle Class	Units	ROG	СО	SO ₂	NO _x	PM ₁₀	PM _{2.5}	CO ₂	CH ₄	N ₂ O	
	g/mile	0.07	12.51	0.00	1.25	0.18	0.06	1,442	2.31	0.29	
NG Trucks ¹	g/trip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	g/idle trip	0.06	8.54	0.00	1.43	0.00	0.00	1,175	3.72	0.24	
	g/mile	0.05	9.26	0.00	0.93	0.13	0.04	1,068	1.71	0.22	
CY 2025 Truck Scenario ²	g/trip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	g/idle trip	0.04	6.33	0.00	1.06	0.00	0.00	871	2.75	0.18	

CY 2025 Totals:

40 NG Trucks 14 Electric Trucks³

Notes:

Abbreviations:

CH₄ - methane MDV - medium-duty truck

CO - carbon monoxide \qquad NG - natural gas \qquad CO₂ - carbon dioxide \qquad N₂O - nitrous oxide

CY - calendar year NO_x - nitrogen oxide compounds (NO + NO_2)

EMFAC - EMission FACtor model $PM_{2.5}$ -particulate matter less than 2.5 microns in diameter g - gram PM_{10} - particulate matter less than 10 microns in diameter

LDA - passenger car ROG - reactive organic gas LDT - light-duty truck SO_2 - sulfur dioxide

¹ Emission factors for diesel and natural gas trucks obtained from EMFAC2021 v1.0.1. These emission factors are for heavy-heavy duty trucks in Stanislaus County in calendar year 2025. Available: https://arb.ca.gov/emfac/emissions-inventory. Accessed: December 2021.

² After CY 2025, the truck fleet that makes deliveries to and from the facility consists of 40 natural gas fueled trucks and 14 electric trucks.

³ Electric truck emissions are not shown in this table, as the electric trucks will have zero tailpipe emissions.

Table D.20. Box Truck Emission Factors

Frito-Lay, Inc. Modesto, CA

	Emission Factor				Mobile Em	ission Fact	ors - CY 20	20		
Vehicle Class	Units	ROG	СО	SO ₂	NO _x	PM ₁₀	PM _{2.5}	CO ₂	CH₄	N ₂ O
	g/mile	0.12	0.36	0.01	2.85	0.11	0.07	1,145	0.01	0.18
Box Trucks ¹	g/trip	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00
	g/idle trip	0.03	0.60	0.00	1.90	0.01	0.01	205	0.00	0.03
	g/mile	0.12	0.36	0.01	2.85	0.11	0.07	1,145	0.01	0.18
Baseline Box Truck Scenario ²	g/trip	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00
	g/idle trip	0.03	0.60	0.00	1.90	0.01	0.01	205	0.00	0.03
	g/mile									
Project Box Truck Scenario ³	g/trip									
	g/idle trip									

Notes:

Abbreviations:

CH₄ - methane MDV - medium-duty truck

CO - carbon monoxide $\hspace{1cm}$ NG - natural gas $\hspace{1cm}$ CO $_2$ - carbon dioxide $\hspace{1cm}$ N $_2$ O - nitrous oxide

CY - calendar year NO_x - nitrogen oxide compounds ($NO + NO_2$)

EMFAC - EMission FACtor model $PM_{2.5}$ -particulate matter less than 2.5 microns in diameter g - gram PM_{10} - particulate matter less than 10 microns in diameter

LDA - passenger car ROG - reactive organic gas

LDT - light-duty truck SO_2 - sulfur dioxide

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¹ Emission factors for diesel box trucks obtained from EMFAC2021 v1.0.1. These emission factors are for medium-heavy duty trucks in Stanislaus County in calendar year 2020. Available: https://arb.ca.gov/emfac/emissions-inventory. Accessed: December 2021.

² In the baseline scenario, the facility operates six diesel-fueled box trucks.

³ After project implementation, the facility's fleet of box trucks will be entirely electric. These box trucks will have zero tailpipe emissions.

Table D.21. Offroad Equipment Emission Factors

Frito-Lay, Inc. Modesto, CA

				CAP Emis	sions				GHG Em	issions	
Equipment	Parameter	ROG	СО	NO _x	PM ₁₀	PM _{2.5}	SO ₂	CO ₂	CH ₄	N ₂ O	CO ₂ e
	OFFROAD Diesel Emissions ¹ (tons/day)	0.03	0.21	0.23	0.02	0.01	0.00	31.04			
Forklifts	Diesel Emission Factors ² (g/hr)	8.20	64.92	70.51	4.89	4.50	0.09	9,539	47.59	9.52	13,565
	Baseline Facility Diesel Forklift Emissions ^{3,4} (tons/yr)	0.30	2.40	2.61	0.18	0.17	0.00	353	1.76	0.35	502
Y- 1	OFFROAD Diesel Emissions ¹ (tons/day)	0.00	0.03	0.00	0.00	0.00	0.00	5.28			
Yard Tractors	Diesel Emission Factors (g/hr)	2.81	185.00	13.31	0.49	0.45	0.30	32,288	8.09	1.62	32,973
114013	Baseline Facility Diesel Yard Tractor Emissions ^{3,5} (tons/yr)	0.03	1.71	0.12	0.00	0.00	0.00	299	0.07	0.01	305

Constants:

Global Warming Potentials:

907,185 g/ton CO_2 1 365 day/year CH_4 25 24 hr/day N_2O 298

0.414 g/gal fuel, CH_4 emission factor² 0.0828 g/gal fuel, N_2O emission factor²

Forklift Operating Parameters:

Yard Truck Operating Parameters:

1,077,289 SJVAPCD forklift activity, hours per year¹

54,139 SJVAPCD yard tractor activity, hours per year¹

1,006,936 SJVAPCD forklift fuel consumption, gallons per year¹

171,276 SJVAPCD yard tractor fuel consumption, gallons per year¹

4 number of forklifts at the facility

1 number of yard tractors at the facility

8400 operating hours per year for each forklift

8400 operating hours per year for each yard tractor

Notes:

Abbreviations:

CAP - criteria air pollutant g - gram PM_{10} - particulate matter less than 10 microns in diameter

CH₄ - methane GHG - greenhouse gas ROG - reactive organic gas

CO - carbon monoxide hr - hour SJVAPCD - San Joaquin Valley Air Pollution Control District

 CO_2 - carbon dioxide N_2O - nitrous oxide SO_2 - sulfur dioxide

 CO_2e - carbon dioxide equivalents NO_x - nitrogen oxide compounds (NO + NO_2) yr - year

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¹ Diesel emissions for CAPs and CO₂, and equipment activities estimated using OFFROAD2021 v1.0.1. Forklifts were modeled as equipment type "Industrial - Forklifts," and the yard tractors were modeled as equipment type "Cargo Handling Equipment - Rail Yard Tractor." Available: https://arb.ca.gov/emfac/emissions-inventory. Accessed: December 2021.

 $^{^2}$ Diesel emission factors were derived from OFFROAD for CAPs and CO $_2$. For CH $_4$ and N $_2$ O, these emission factors were derived using fuel-specific emission factors from California's GHG Inventory. Emission factors shown here were taken from the following section of the inventory: Category 1A3 - Fuel Combustion Activities - Transport - Not Specified Transportation - Distillate. Available: http://www.arb.ca.gov/cc/inventory/doc/doc_index.php. Accessed: December 2021.

³ Baseline emissions represent emissions at the facility before any new permit units are installed. Emissions are only shown for the baseline, as all diesel offroad equipment will be replaced with electric equipment during project implementation. The electric equipment will not have any tailpipe emissions.

⁴ Forklift emissions were calculated assuming that there are four forklifts at the facility that operate for 8,400 hours per year.

⁵ Yard tractor emissions were calculated assuming that there is one yard tractor at the facility that operates for 8,400 hours per year.

Table D.22. Total Passenger Car and Truck Emissions in Each Scenario

Frito-Lay, Inc. Modesto, CA

		CAP Emissions (ton/year)						GHG Em		
	ROG	СО	SO ₂	NO _x	PM ₁₀	PM _{2.5}	CO ₂	CH ₄	N ₂ O	CO ₂ e
Passenger Car Trips ¹	0.97	9.31	0.02	0.68	0.15	0.05	2,144	0.07	0.06	2,165
Truck Trips ²	0.34	64.15	0.00	6.43	0.90	0.31	6,715	10.81	1.37	7,394
Box Truck Trips ³										
Total Emissions ⁴	1.31	73.45	0.02	7.11	1.05	0.36	8,860	10.88	1.43	9,558

Conversion Factors:

453.592 grams/lb 2204.62 lb/MT 2000 lb/ton 365 day/year

Global Warming Potentials:

 CO_2 1 CH_4 25 N_2O 298

Notes:

Abbreviations:

CAP - criteria air pollutant MT - metric ton CH_4 - methane N_2O - nitrous oxide

CO - carbon monoxide NO_x - nitrogen oxide compounds $(NO + NO_2)$

 ${\rm CO_2}$ - carbon dioxide ${\rm PM_{2.5}}$ -particulate matter less than 2.5 microns in diameter ${\rm CO_2e}$ - carbon dioxide equivalents ${\rm PM_{10}}$ - particulate matter less than 10 microns in diameter

GHG - greenhouse gas ROG - reactive organic gas

lb - pound SO₂ - sulfur dioxide

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¹ Emissions from passenger car trips calculated using emission factors as derived in **Tables D.12, D.14, D.16, and D.18**. The trip length and number of trips were calculated in **Table D.9**.

² Emissions from truck trips estimated using emission factors as derived in **Tables D.13**, **D.15**, **D.17**, **and D.19**. The number of daily one-way truck trips was provided by the facility, and the estimated mileage per trip is calculated in **Table D.10**.

³ Emissions from box truck trips estimated using emission factors as derived in **Table D.20**. The number of daily one-way truck trips and mileage per trip are estimated in **Table D.11**.

⁴ Total emissions in each scenario were calculated as a sum of passenger car trips, truck trips, and truck idling.

Table D.23. Locomotive Trip Length per Air District

Frito-Lay, Inc.

Modesto, CA

Total Railway Distance	within California ¹	
Map Section ²	Length (m)	Length (mi)
I-80 from CA Boundary to I-5	205,428	128
I-5 to SR120	94,989	59
Smaller Streets to Facility	42,842	27
Total Rail Distance Traveled	343,258	213
Distance within	SJVAPCD ³	
I-80 from CA Boundary to I-5	0	0
I-5 to SR120	60,290	37
Smaller Streets to Facility	42,842	27
Rail Distance Traveled within SJVAPCD	103,131	64
% of Emissions within SJVAPCD	30.0%	
Distance within Sacram	ento Air District ³	
I-80 from CA Boundary to I-5	27,095	17
I-5 to SR120	17,866	11
Smaller Streets to Facility	0	0
Rail Distance Traveled within Sacramento	44,961	28
% of Emissions within Sacramento	13.1%	
Distance within Yolo So	olano Air District ³	
I-80 from CA Boundary to I-5	12,589	8
I-5 to SR120	16,827	10
Smaller Streets to Facility	0	0
Rail Distance Traveled within Yolo Solano	29,415	18
% of Emissions within Yolo Solano	8.6%	
Distance within Plac	er Air District ³	
I-80 from CA Boundary to I-5	133,835	83
I-5 to SR120	0	0
Smaller Streets to Facility	0	0
Rail Distance Traveled within Placer	133,835	83
% of Emissions within Placer	39.0%	
Distance within Northern	Sierra Air District ³	
I-80 from CA Boundary to I-5	31,975	20
I-5 to SR120	0	0
Smaller Streets to Facility	0	0
Rail Distance Traveled within N. Sierra	31,975	20
% of Emissions within N. Sierra	9.3%	

Conversion Factors:

1609.34 meters/mile

Notes:

Abbreviations:

CA - California

CEQA - California Environmental Quality Act

I-5 - Interstate 5

I-80 - Interstate 80

m - meters

mi - miles

SJVAPCD - San Joaquin Valley Air Pollution Control District

SR120 - State Route 120

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 $^{^{1}}$ For purposes of this CEQA analysis, the total rail distance that trains travel to deliver freight to the facility was estimated starting at the point where the railway enters California.

² It was estimated that after entering California, the railroad tracks approximately followed the direction of Interstate 80, Interstate 5, and State Route 120. The total distance of each of these segments was calculated in ArcGIS Pro. Available: https://www.esri.com/en-us/arcgis/products/arcgis-pro/overview. Accessed: December 2021.

³ A map of California air districts was placed on top of the estimated railroad path. The percentages of emissions attributed to each district were calculated by taking the percentage of total rail miles traveled in each district. The portions of the track that overlapped with each district boundary were also calculated in ArcGIS Pro. Available: https://www.esri.com/en-us/arcgis/products/arcgis-pro/overview. Accessed: December 2021.

Table D.24. CAP Emission Factors for Locomotives

Frito-Lay, Inc. Modesto, CA

Scenario	Emissions	HC ¹	ROG ²	CO ¹	SO ₂ ³	NO _x ⁴	PM ₁₀ ^{4,5}	PM _{2.5} ^{4,5}
Baseline	Emission Factors (g/gal)	3.20	3.37	26.62	0.10	68.57	1.01	1.01
Daseille	Emission Factors (g/ton-mile) ⁶	0.012	0.013	0.100	0.0004	0.257	0.004	0.004
Post-Project	Emission Factors (g/gal)	2.60	2.74	26.62	0.10	52.25	0.78	0.78
rost-rroject	Emission Factors (g/ton-mile) ⁶	0.010	0.010	0.100	0.0004	0.196	0.003	0.003

Conversion Factors and Constants:

20.8 bhp-hr/gal⁷

206,111,061,000 ton-miles, freight trains⁶

773,476,896 gallons of diesel fuel consumed, freight trains⁶

266.5 ton-mile/gal

3,200 g/gal, density of diesel³

1 unitless conversion factor (fraction of fuel sulfur converted to SO₂)³

15 ppm, sulfur content of ultra-low sulfur diesel⁸

907,185 g/ton

trains in calendar year 2022, 2023, and 2025. Available: https://nepis.epa.gov/Exe/ZyPDF.cqi/P100500B.PDF?Dockey=P100500B.PDF. Accessed: December

² ROG emissions can be estimated as 1.053 times HC emissions per US EPA guidance, Emission Factors for Locomotives. Available: https://nepis.epa.gov/Exe/ZyPDF.cqi/P100500B.PDF?Dockey=P100500B.PDF. Accessed: December 2021.

³ SO_x emission factors were calculated using methodology outlined in US EPA guidance, Emission Factors for Locomotives. Available: https://nepis.epa.gov/Exe/ZyPDF.cgi/P100500B.PDF?Dockey=P100500B.PDF. Accessed: December 2021.

⁴ Emission factors for NO_x and PM are obtained from Table 8-1 in CARB guidance, 2016 Line Haul Locomotive Model & Update. Available: https://ww3.arb.ca.gov/msei/ordiesel/locolinehaul2017ei.docx. Accessed: December 2021.

⁶ Emission factors were converted from grams per gallon to grams per ton-mile using the total ton-miles that Union Pacific freight trains travelled in 2020 and the total gallons of diesel fuel consumed by Union Pacific freight trains in 2020. These values were taken from pages 93 and 86, respectively, of the 2020 Union Pacific Class I Railroad Annual Report. Available: https://www.up.com/cs/groups/public/@uprr/@investor/documents/investordocuments/pdf up r1 2020.pdf. Accessed: December 2021.

⁷Bhp-hr/gal conversion factor taken from Table 3 of US EPA guidance. Value used is for large-line haul locomotives. Available: https://nepis.epa.gov/Exe/ZyPDF.cgi/P100500B.PDF?Dockey=P100500B.PDF. Accessed: December 2021.

⁸ In accordance with US EPA regulations, it is assumed that all diesel used in locomotives is ULSD. Available: https://www.epa.gov/diesel-fuel-standards/dieselfuel-standards-and-rulemakings, Accessed: December 2021.

Abbreviations:

bhp - brake horsepower

CARB - California Air Resources Board

DTC - dorito tortilla chip FCC - fried corn chip FCP - fried cheese puff

g - gram gal - gallon HC - hydrocarbon

hr - hour

 NO_x - nitrogen oxide compounds (NO + NO_2)

OFS - onion fried snack

PM - particulate matter

PM_{2.5} -particulate matter less than 2.5 microns in diameter PM₁₀ - particulate matter less than 10 microns in diameter

ppm - parts per million ROG - reactive organic gas

SO₂ - sulfur dioxide

ULSD - ultra low sulfur diesel

US EPA - United States Environmental Protection Agency

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⁵ It is conservatively assumed that PM, PM₁₀, and PM_{2.5} emissions are all equal.

Table D.25. CAP Emissions from Locomotives

Frito-Lay, Inc. Modesto, CA

Emissions	нс	ROG	СО	SO ₂	NO _x	PM ₁₀	PM _{2.5}
Incremental Emissions (ton/year) ^{1,2}	0.979	1.030	8.493	0.031	20.752	0.308	0.308
Incremental SJVAPCD Emissions (ton/year) ³	0.294	0.310	2.552	0.009	6.235	0.092	0.092

Conversions and Constants:

2,000 lb/ton
52 week/year
907,185 g/ton
213 mi, one-way trip length
211.75 tons, locomotive⁴
32 tons, covered hopper railcar (empty)⁵
307.75 tons, weight, per train, unloaded

Abbreviations:

CO - carbon monoxide $PM_{2.5}$ -particulate matter less than 2.5 microns in diameter g - gram PM_{10} - particulate matter less than 10 microns in diameter

HC - hydrocarbon ROG - reactive organic gas

lb - pound SJVAPCD - San Joaquin Valley Air Pollution Control District

mi - mile SO₂ - sulfur dioxide

 NO_x - nitrogen oxide compounds (NO + NO_2)

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 $^{^{1}}$ Criteria air pollutant emissions are calculated by multiplying emission factors by the total locomotive weight and trip length.

² Total locomotive weight includes the weight of the locomotive, railcars, and loaded freight containers.

³ Criteria air pollutant emissions within San Joaquin Valley were calculated by multiplying the total locomotive emissions by the percentage of the rail route that is within the SJVAPCD. The rail route breakdown in shown in **Table D.23**.

⁴ Locomotive weight estimated from 2014 fleet data for Norfolk Southern. Available: https://www.epa.gov/sites/production/files/2014-08/documents/smith.pdf. Accessed: December 2021.

⁵ Large covered hopper weight estimated using the load limit and gross weight for Union Pacific covered hoppers. Available: https://www.up.com/customers/all/equipment/descriptions/covered_hoppers/index.htm. Accessed: December 2021.

⁶ Railcar delivery frequency and freight quantities as provided by the facility via data request.

Table D.26. GHG Emission Factors for Locomotives

Frito-Lay, Inc. Modesto, CA

	CO ₂ ¹	CH ₄ ²	N_2O^2	CO₂e
Emission Factors (g/gal)	10,202	0.80	0.26	10,299
Emission Factors (g/ton-mile) ³	38.28	0.003	0.001	38.65

Conversion Factors and Constants:

206,111,061,000 ton-miles, freight trains³

773,476,896 gallons of diesel fuel consumed, freight trains³

266.5 ton-mile/gal

3,200 g/gal, density of diesel¹

44.01 g/mol, molecular weight of carbon dioxide

12.01 g/mol, molecular weight of carbon

87% carbon content of diesel fuel by mass¹

Global Warming Potentials:

 CO_2 1 25 N_2O 298

Notes:

¹ CO₂ emission factors were calculated using methodology outlined in US EPA guidance, Emission Factors for Locomotives. Available:

https://nepis.epa.gov/Exe/ZyPDF.cgi/P100500B.PDF?Dockey=P100500B.PDF. Accessed: December 2021.

 $https://www.up.com/cs/groups/public/@uprr/@investor/documents/investordocuments/pdf_up_r1_2\\020.pdf. Accessed: December 2021.$

Abbreviations:

CH₄ - methane

CO₂ - carbon dioxide

CO₂e - carbon dioxide equivalents

g - gram

gal - gallon

mol - mole

N₂O - nitrous oxide

US EPA - United States Environmental Protection Agency

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 $^{^2}$ CH $_4$ and N $_2$ O emission factors obtained from Table 5 in US EPA guidance, Emission Factors for Greenhouse Gas Inventories. Emission factors chosen are for Diesel Locomotives. Available: https://www.epa.gov/sites/production/files/2015-07/documents/emission-factors_2014.pdf. Accessed: December 2021.

³ Emission factors were converted from grams per gallon to grams per ton-mile using the total ton-miles that Union Pacific freight trains travelled in 2020 and the total gallons of diesel fuel consumed by Union Pacific freight trains in 2020. These values were taken from pages 93 and 86, respectively, of the 2020 Union Pacific Class I Railroad Annual Report. Available:

Table D.27. GHG Emissions from Locomotives

Frito-Lay, Inc. Modesto, CA

Emissions	CO ₂	CH₄	N ₂ O	CO₂e
Incremental Emissions (ton/year) ^{1,2}	3,254	0	0	3,285
Incremental SJVAPCD Emissions (MT/year) ³	978	0	0	987

Conversions and Constants:

1.10231 ton/metric ton

2,000 lb/ton

52 week/year

907,185 g/ton

213 mi, one-way trip length

212 tons, locomotive⁴

32 tons, covered hopper railcar (empty)⁵

308 tons, weight, per train, unloaded

https://www.up.com/customers/all/equipment/descriptions/covered_hoppers/index.htm. Accessed: December 2021.

Abbreviations:

 ${\rm CH_4}$ - methane mi - mile ${\rm CO_2}$ - carbon dioxide MT - metric ton

 CO_2e - carbon dioxide equivalents N_2O - nitrous oxide g - gram SJVAPCD - San Joaquin Valley Air Pollution Control Dis

g - gram lb - pound

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¹ Greenhouse gas emissions are calculated by multiplying emission factors by the total locomotive weight and trip length.

² Total locomotive weight includes the weight of the locomotive, railcars, and loaded freight containers.

³ Greenhouse emissions within San Joaquin Valley were calculated by multiplying the total locomotive emissions by the percentage of the rail route that is within the SJVAPCD. This methodology in shown in **Table D.23**.

⁴ Locomotive weight estimated from 2014 fleet data for Norfolk Southern. Available: https://www.epa.gov/sites/production/files/2014-08/documents/smith.pdf. Accessed: December 2021.

⁵ Large covered hopper weight estimated using the load limit and gross weight for Union Pacific covered hoppers. Available:

⁶ Railcar delivery frequency and freight quantities as provided by the facility via data request.

Table D.28. Locomotive CAP Emissions in Other Air Districts and Associated Threshold Comparisons

Frito-Lay, Inc. Modesto, CA

Air District		ROG	со	SO ₂	NO _x	PM ₁₀	PM _{2.5}
Sacramento	Threshold ¹ (lb/day)	65			65	80	82
	Percentage of Emissions in District ²	13.1%			13.1%	13.1%	13.1%
	Incremental Emissions (lb/day)	0.7			14.9	0.2	0.2
	Exceeds Threshold?	No			No	No	No
Yolo-Solano	Threshold ³ (tpy)	10			10	14.6	
	Percentage of Emissions in District ²	8.6%			8.6%	8.6%	
	Incremental Emissions (lb/day)	0.5			10	0.1	
	Exceeds Threshold?	No			No	No	
Placer	Threshold ⁴ (lb/day)	55			55	82	
	Percentage of Emissions in District ²	39.0%			39.0%	39.0%	
	Incremental Emissions (lb/day)	2.2			44.3	0.7	
	Exceeds Threshold?	No	-		No	No	
Northern Sierra	Threshold ⁵ (lb/day)	24			24	79	
	Percentage of Emissions in District ²	9.3%			9.3%	9.3%	
	Incremental Emissions (lb/day)	0.5			10.6	0.2	
	Exceeds Threshold?	No			No	No	

Conversion Factors:

2000 lb/ton 365 day/year

Notes:

Abbreviations:

CEQA - California Environmental Quality Act

CO - carbon monoxide

lb - pound

 NO_x - nitrogen oxide compounds (NO + NO₂)

NSAQMD - Northern Sierra Air Quality Management District

PCAPCD - Placer County Air Pollution Control District PM_{2.5} -particulate matter less than 2.5 microns in diameter

PM₁₀ - particulate matter less than 10 microns in diameter

ROG - reactive organic gas

SMAQMD - Sacramento Metropolitan Air Quality Management District

SO₂ - sulfur dioxide

tpy - tons per year

YSAQMD - Yolo-Solano Air Quality Management District

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¹ SMAQMD Thresholds of Significance Table taken from the District's CEQA Guide. Available: http://www.airquality.org/LandUseTransportation/Documents/CH2ThresholdsTable4-2020.pdf. Accessed: December 2021.

² Percentage of railcar emissions in each district were based on the mileage that trains will travel in each district. These distances were measured in ArcGIS Pro.

³ YSAQMD Thresholds of Significance for Criteria Pollutants of Concern taken from Table 1 of the District's Handbook for Assessing and Mitigating Air Quality Impacts. Available: http://www.ysaqmd.org/wp-content/uploads/Planning/CEQAHandbook2007.pdf. Accessed: December 2021.

⁴ Operational phase project-level criteria pollutant thresholds found on PCAPCD website. Available: https://www.placer.ca.gov/1804/CEQA-Thresholds. Accessed: December 2021.

⁵ NSAQMD thresholds taken from District Guidelines for Assessing and Mitigating Air Quality Impacts of Land Use Projects. Thresholds shown are Level A thresholds. Available: https://www.mynevadacounty.com/DocumentCenter/View/15131/NSAQMD-Attachment-Land-Use-Guidelines-PDF. Accessed: December 2021.

Table D.29. Locomotive GHG Emissions in Other Air Districts and Associated Threshold Comparisons Frito-Lay, Inc.

Modesto, CA

Air District		CO ₂ e
	Threshold ¹ (MT/year)	1,100
Sacramento	Percentage of Emissions in District ²	13.1%
Sacramento	Total Emissions (MT/year)	390
	Exceeds Threshold?	No
	Threshold ³ (MT/year)	1,100
Yolo-Solano	Percentage of Emissions in District ²	8.6%
1010-3014110	Total Emissions (MT/year)	255
	Exceeds Threshold?	No
	Threshold ⁴ (MT/year)	10,000
Placer	Percentage of Emissions in District ²	39.0%
Placei	Total Emissions (MT/year)	1,162
	Exceeds Threshold?	No
	Threshold ⁵ (MT/year)	10,000
Northern Sierra	Percentage of Emissions in District ²	9.3%
Hortierii Sierra	Total Emissions (MT/year)	278
	Exceeds Threshold?	No

Conversion Factors:

2000 lb/ton 365 day/year 1.10231 ton/metric ton

Notes:

Abbreviations:

CEQA - California Environmental Quality Act

 ${\rm CO_2e}$ - carbon dioxide equivalents

GHG - greenhouse gas

lb - pound

MT - metric ton

PCAPCD - Placer County Air Pollution Control District

 ${\sf SMAQMD} \ {\sf -} \ {\sf Sacramento} \ {\sf Metropolitan} \ {\sf Air} \ {\sf Quality} \ {\sf Management} \ {\sf District}$

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¹ SMAQMD Thresholds of Significance Table taken from the District's CEQA Guide. For comparison purposes, the threshold here is for construction. Operational compliance is demonstrated via consistency with the Climate Change Scoping Plan. Available: http://www.airquality.org/LandUseTransportation/Documents/CH2ThresholdsTable4-2020.pdf. Accessed: December 2021.

² Percentage of railcar emissions in each district were based on the mileage that trains will travel in each district. These distances were measured in ArcGIS Pro.

³ Yolo-Solano did not have specific greenhouse gas thresholds. Emissions were conservatively compared to the Sacramento GHG Thresholds instead.

⁴ Greenhouse gas threshold found in the PCAPCD 2017 CEQA Handbook, Chapter 2. Value shown is the bright-line threshold. Available: https://www.placer.ca.gov/DocumentCenter/View/2047/Chapter-2-Thresholds-of-Significance-PDF

⁵ Per guidance, operational emissions would not have a significant impact on the environment if projected GHG emissions are less than 1,100 metric tons of CO2e per year. Available: https://www.mynevadacounty.com/DocumentCenter/View/11224/90-Greenhouse-Gas-Emissions-PDF. Accessed: December 2021.

Table D.30. Criteria Air Pollutant Mobile Source Emissions

Frito-Lay, Inc. Modesto, CA

		Incremental Project Emissions ¹ (ton/year)				
Mobile Source Activity	ROG	СО	SO ₂	NO _x	PM ₁₀	PM _{2.5}
Passenger Cars ²	0.13	0.68	0.01	-0.08	0.05	0.02
Trucks ²	-0.19	3.76	-0.02	-5.69	-0.02	-0.05
Box Trucks ²	-0.02	-0.06	0.00	-0.43	-0.02	-0.01
Trains ³	0.31	2.55	0.01	6.23	0.09	0.09
Off-Road Equipment ⁴	-0.33	-4.12	-0.01	-2.73	-0.19	-0.17
Total Emissions ⁵	-0.1	2.8	0.0	-2.7	-0.1	-0.1

Notes:

Abbreviations:

CAP - criteria air pollutant

CO - carbon monoxide

 NO_x - nitrogen oxide compounds (NO + NO_2)

 $PM_{2.5}$ -particulate matter less than 2.5 microns in diameter

PM₁₀ - particulate matter less than 10 microns in diameter

ROG - reactive organic gas

SO₂ - sulfur dioxide

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¹ Mobile source emissions shown in this table only represent changes expected to occur as a result of the project.

² Emissions from passenger cars, trucks, and box trucks as calculated in **Table D.22**.

³ Emissions from trains as calculated in **Table D.25.**

⁴ Emissions from off-road equipment, which includes forklifts and yard tractors, as calculated in **Table D.21.**

⁵ CAP totals are the sum of emissions expected from passenger cars, trucks, trains, and offroad equipment.

Table D.31. Greenhouse Gas Mobile Source Emissions

Frito-Lay, Inc. Modesto, CA

	Inc	Incremental Project Emissions ¹ (MT/year)			
Mobile Source Activity	CO ₂	CH₄	N ₂ O	CO₂e	
Passenger Cars ²	652	0.01	0.01	654	
Trucks ²	-897	-0.23	-0.09	-931	
Box Trucks ²	-151	0.00	-0.02	-158	
Trains ³	887	0.07	0.02	895	
Off-Road Equipment ⁴	-592	-1.67	-0.33	-733	
Total Emissions ⁵	-101	-1.83	-0.42	-272	

Notes:

<u>Abbreviations:</u>

CH₄ - methane

CO₂ - carbon dioxide

CO₂e - carbon dioxide equivalents

GHG - greenhouse gas

MT - metric ton

N₂O - nitrous oxide

Conversion Factors:

1.10231 ton/metric ton

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¹ Mobile source emissions shown in this table only represent changes expected to occur as a result of the project.

² Emissions from passenger cars, trucks, and box trucks as calculated in **Table D.22**.

³ Emissions from trains as calculated in **Table D.27.**

⁴ Emissions from off-road equipment, which includes forklifts and yard tractors, as calculated in **Table D.21**.

⁵ GHG totals are the sum of emissions expected from passenger cars, trucks, trains, and offroad equipment.

Table D.32. GHG Emissions from Water Usage

Frito-Lay, Inc. Modesto, CA

Incremental Water Usage	Incremental GHG Emissions ² (MT/year)			
(Mgal/year) ¹	Total CO ₂	CH ₄	N ₂ O	CO₂e
239.15	203.32	7.81	0.19	454.15

Notes:

Abbreviations:

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 $^{^1}$ Water usage provided by the facility, and emissions estimated using CalEEMod $^{\! @}$ version 2020.4.0.

Table D.33. GHG Emissions from Solid Waste Disposal

Frito-Lay, Inc. Modesto, CA

Incremental Waste Disposed ¹	I	ncremental GHG E (MT/year		
(tons)	Total CO ₂	CH₄	N ₂ O	CO₂e
105.30	21.38	1.26	0.00	52.96

Notes:

Abbreviations:

CalEEMod® - California Emissions Estimator Model GHG - greenhouse gas

CH₄ - methane MT - metric ton

 CO_2 - carbon dioxide N_2O - nitrous oxide

CO₂e - carbon dioxide equivalents

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¹ Amount of waste disposed calculated by scaling the weight of non-hazardous waste created by the facility in 2020, using the increased capacity of the facility after project implementation

² Emissions estimated using CalEEMod® version 2020.4.0.

Table D.34. Net Change in CAP Emissions Expected after Project Implementation

Frito-Lay, Inc.

Modesto, CA

	Incremental CAP Emissions 1 (tons/year)					
	ROG	СО	SO ₂	NO_x	PM ₁₀	PM _{2.5}
Area Sources ²	1.2	0.0	0.0	0.0	0.0	0.0
Natural Gas Usage ³	0.5	4.0	0.0	4.7	0.4	0.4
Mobile Emissions ⁴	-0.1	2.8	0.0	-2.7	-0.1	-0.1
Totals ⁵	1.6	6.8	0.02	2.0	0.3	0.2
SJVAPCD Thresholds ⁶	10	100	27	10	15	15
Exceeds Threshold?	No	No	No	No	No	No

Notes:

Abbreviations:

CAP - criteria air pollutant

CO - carbon monoxide

 NO_x - nitrogen oxide compounds (NO + NO_2)

PM_{2.5} -particulate matter less than 2.5 microns in diameter

 ${\rm PM}_{10}$ - particulate matter less than 10 microns in diameter

ROG - reactive organic gas

SJVAPCD - San Joaquin Valley Air Pollution Control District

SO₂ - sulfur dioxide

¹ CAP emissions shown in this table only represent changes expected to occur as a result of the project.

² Emissions from area sources as calculated in **Table D.1**.

³ Emissions from natural gas usage as calculated in **Table D.8**.

⁴ Emissions from mobile sources as shown in **Table D.30**.

⁵ Total CAP emissions account for emissions from area sources, natural gas usage, and mobile emissions.

⁶ Thresholds shown are SJVAPCD Air Quality Thresholds of Significance Operational Emissions:Non-Permitted Equipment and Activities. Available: http://www.valleyair.org/transportation/0714-GAMAQI-Criteria-Pollutant-Thresholds-of-Significance.pdf. Accessed: December 2021.

Table D.35. Net Change in GHG Emissions Expected after Project Implementation Frito-Lay, Inc.

Modesto, CA

	Incremental GHG Emissions 1 (MT/year)			
	CO ₂	CH₄	N ₂ O	CO ₂ e
Area Sources ²	0.0	0.0	0.0	0.0
Electricity Usage ³	11,319	1.8	0.2	11,430
Natural Gas Usage ⁴	5,138	0.1	0.1	5,168
Mobile Emissions ⁵	-101	-1.8	-0.4	-272
Water Usage ⁶	203	7.8	0.2	454
Solid Waste Disposal ⁷	21	1.3	0.0	53
Totals ⁸	16,580	9.2	0.1	16,833

Notes:

Abbreviations:

CH₄ - methane

CO₂ - carbon dioxide

CO₂e - carbon dioxide equivalents

GHG - greenhouse gas

MT - metric ton

N₂O - nitrous oxide

 $^{^{1}}$ GHG emissions shown in this table only represent changes expected to occur as a result of the project.

² Emissions from area sources as calculated in **Table D.1**.

³ Emissions from electricity usage as calculated in **Table D.6**.

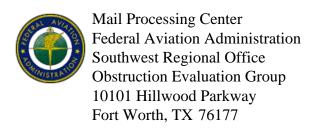
⁴ Emissions from natural gas usage as calculated in **Table D.8**.

⁵ Emissions from mobile sources as shown in **Table D.31**.

⁶ Emissions from water usage as shown in **Table D.32**.

⁷ Emissions from solid waste disposal as shown in **Table D.33**.

⁸ Total GHG emissions account for emissions from area sources, natural gas usage, electricity usage, mobile emissions, water usage, and solid waste disposal.



Elisabeth Gleeson Frito-Lay 600 Garner Road Modesto, CA 95357

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Building #10 76' SILO

Location: Modesto, CA

Latitude: 37-37-51.95N NAD 83

Longitude: 120-54-59.66W

Heights: 111 feet site elevation (SE)

76 feet above ground level (AGL) 187 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

	At least 10 days prior to start of construction (7460-2, Part 1)
X	Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

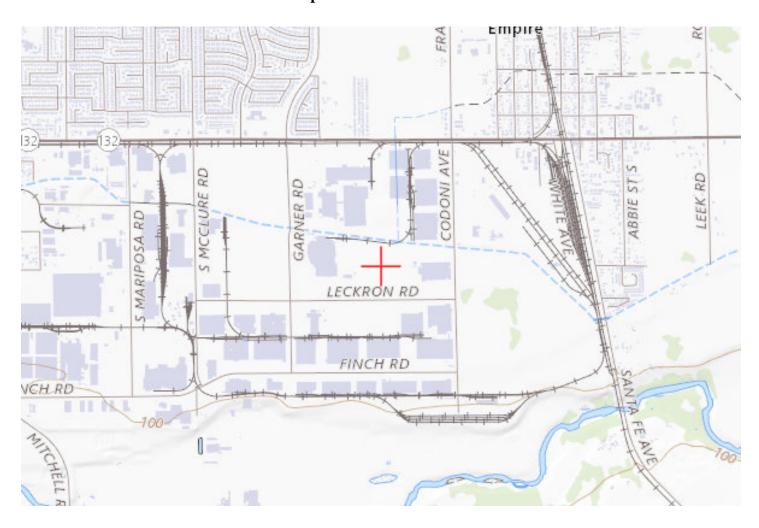
If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-3488-OE.

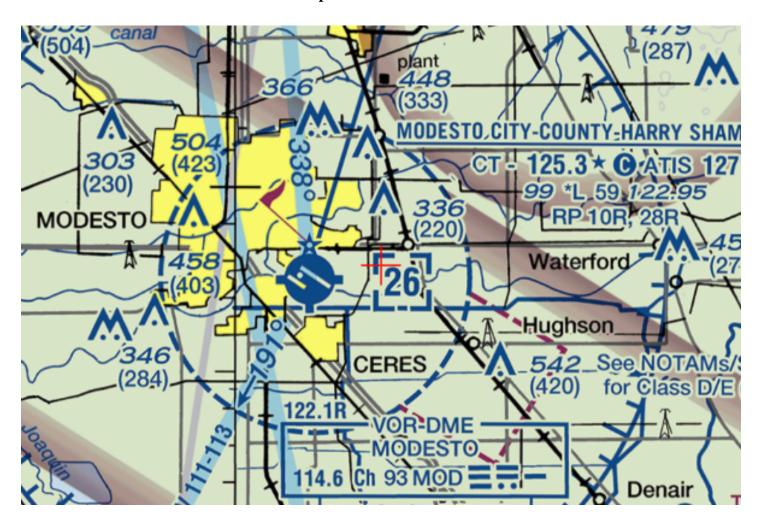
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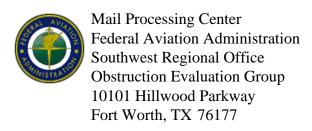
Signature Control No: 512919444-519348860 Daniel Shoemaker Specialist

Attachment(s) Map(s)

TOPO Map for ASN 2022-AWP-3488-OE







Elisabeth Gleeson Frito-Lay 600 Garner Road Modesto, CA 95357

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Building #9 MANUF BLDG ROCK ROOM NE CORNER

Location: Modesto, CA

Latitude: 37-37-50.38N NAD 83

Longitude: 120-55-00.77W

Heights: 111 feet site elevation (SE)

45 feet above ground level (AGL) 156 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

	At least 10 days prior to start of construction (7460-2, Part 1)
X_	Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-3487-OE.

(DNE)

Signature Control No: 512919443-519348855

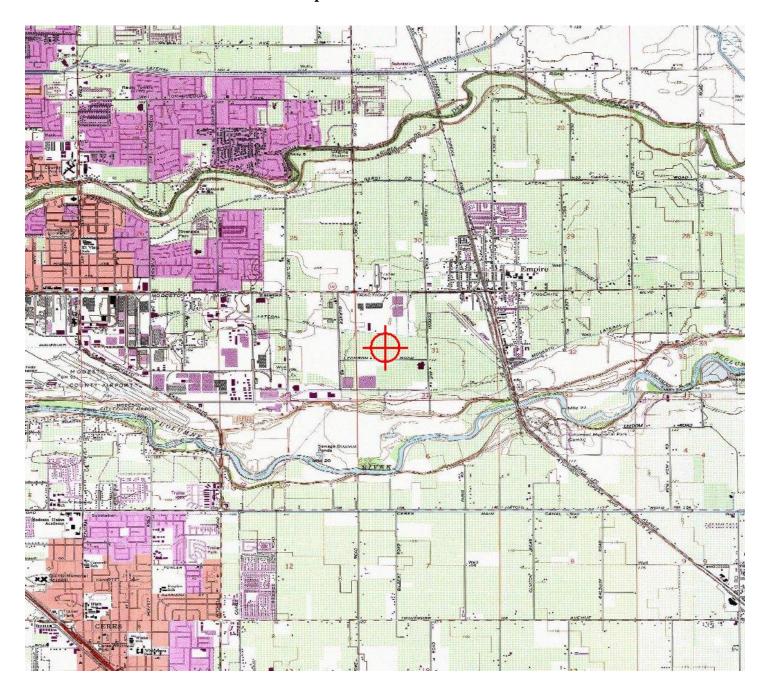
Daniel Shoemaker

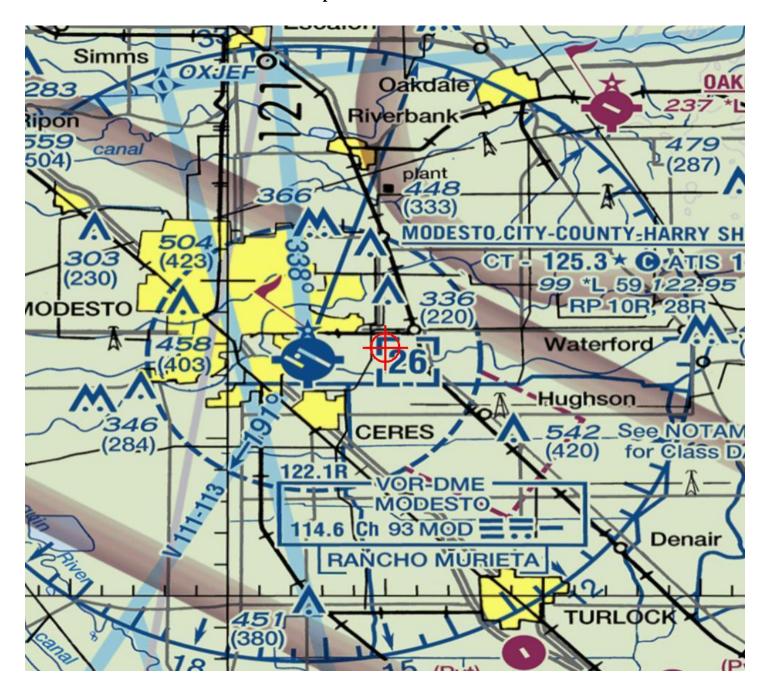
Specialist

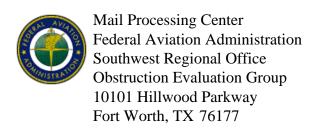
Attachment(s) Map(s)

Page 2 of 4

TOPO Map for ASN 2022-AWP-3487-OE







Elisabeth Gleeson Frito-Lay 600 Garner Road Modesto, CA 95357

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Building #8 MANUF BLDG SE CORNER

Location: Modesto, CA

Latitude: 37-37-51.44N NAD 83

Longitude: 120-55-07.14W

Heights: 111 feet site elevation (SE)

45 feet above ground level (AGL) 156 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

	At least 10 days prior to start of construction (7460-2, Part 1)	
X	Within 5 days after the construction reaches its greatest height (7460-2, Part	2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-3486-OE.

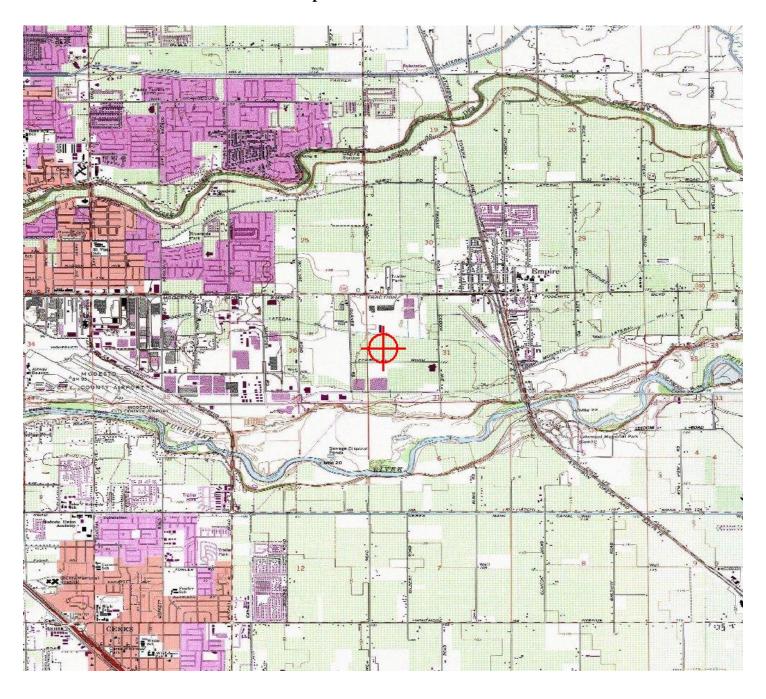
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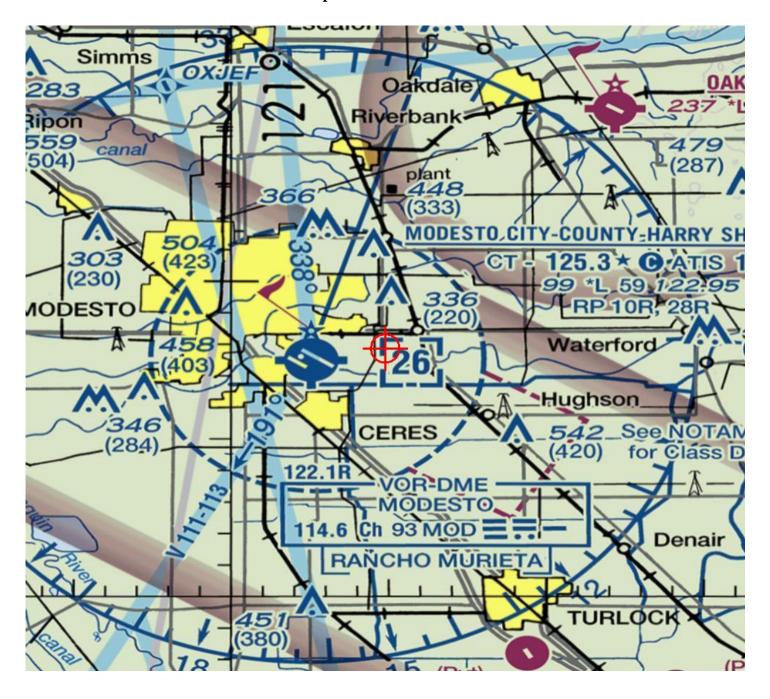
Signature Control No: 512919442-519348858 Daniel Shoemaker **Specialist**

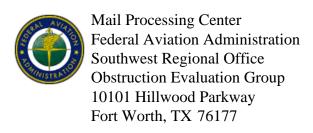
Map(s)

Attachment(s)

TOPO Map for ASN 2022-AWP-3486-OE







Elisabeth Gleeson Frito-Lay 600 Garner Road Modesto, CA 95357

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Building #7 MANUF BLDG NW CORNER

Location: Modesto, CA

Latitude: 37-37-52.09N NAD 83

Longitude: 120-55-08.37W

Heights: 111 feet site elevation (SE)

45 feet above ground level (AGL) 156 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

	At least 10 days prior to start of construction (7460-2, Part 1)	
X	Within 5 days after the construction reaches its greatest height (7460-2, Part 2	.)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-3485-OE.

(DNE)

Signature Control No: 512919441-519348853

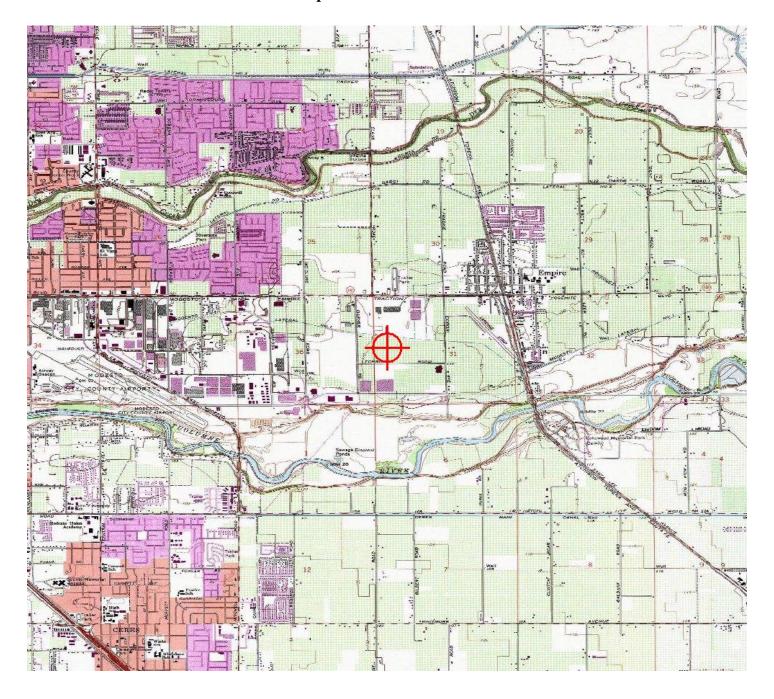
Daniel Shoemaker

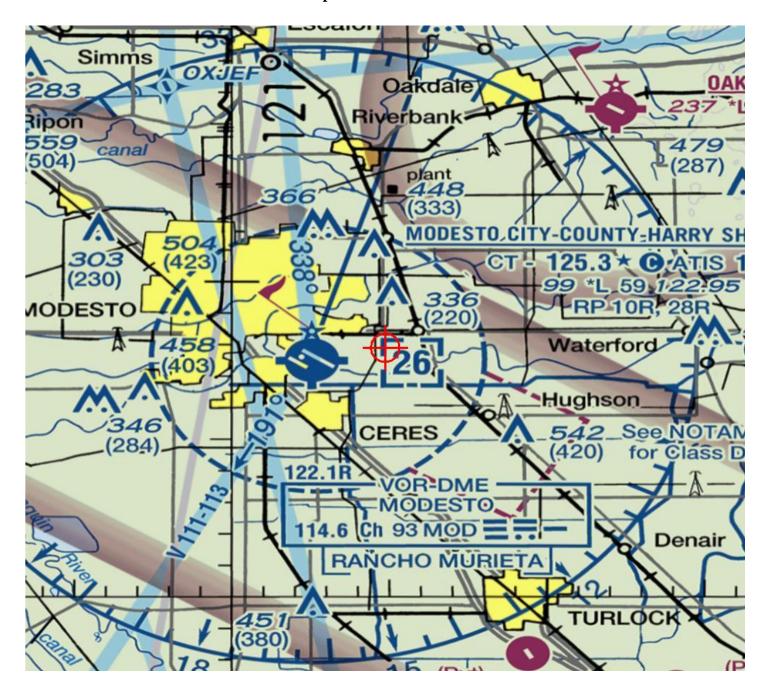
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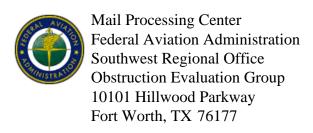
Attachment(a)

Attachment(s) Map(s)

TOPO Map for ASN 2022-AWP-3485-OE







Elisabeth Gleeson Frito-Lay 600 Garner Road Modesto, CA 95357

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Building #6 MANUF BLDG ROCK ROOM NW CORNER

Location: Modesto, CA

Latitude: 37-37-50.45N NAD 83

Longitude: 120-55-06.76W

Heights: 111 feet site elevation (SE)

45 feet above ground level (AGL) 156 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

	At least 10 days prior to start of construction (7460-2, Part 1)
X_	Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-3484-OE.

(DNE)

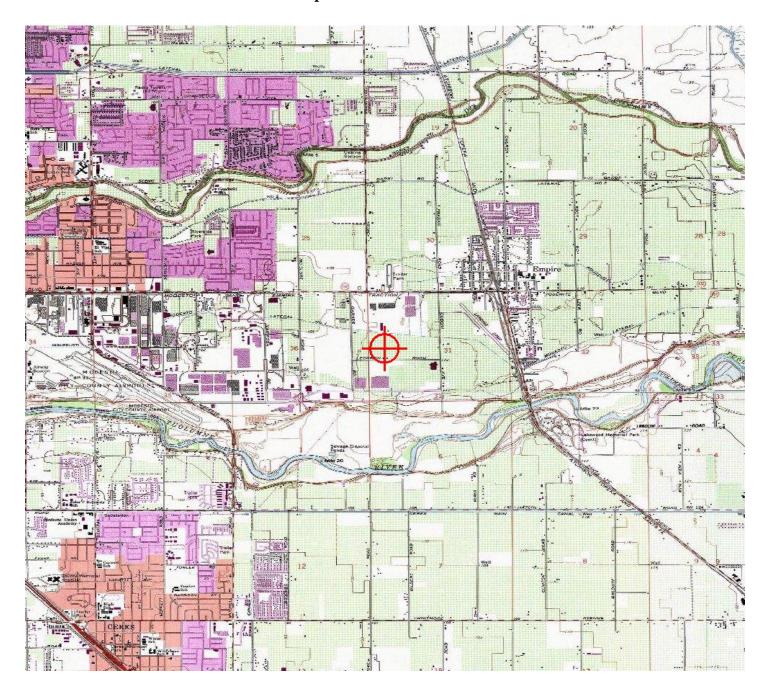
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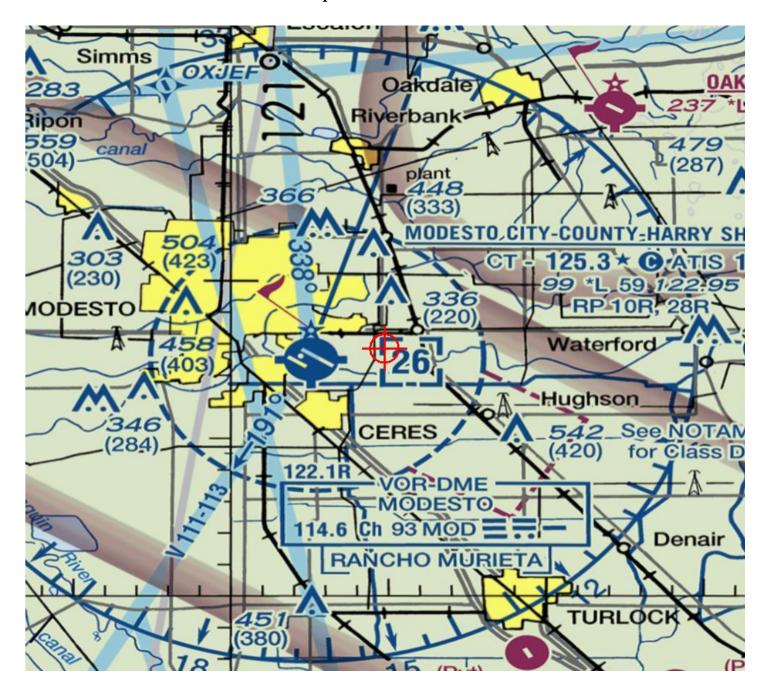
Daniel Shoemaker

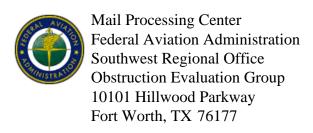
Specialist

Attachment(s) Map(s)

TOPO Map for ASN 2022-AWP-3484-OE







Elisabeth Gleeson Frito-Lay 600 Garner Road Modesto, CA 95357

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Building #5 MANUF BLDG ROCK ROOM SE CORNER

Location: Modesto, CA

Latitude: 37-37-49.17N NAD 83

Longitude: 120-55-00.17W

Heights: 111 feet site elevation (SE)

45 feet above ground level (AGL) 156 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

	At least 10 days prior to start of construction (7460-2, Part 1)
X_	Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

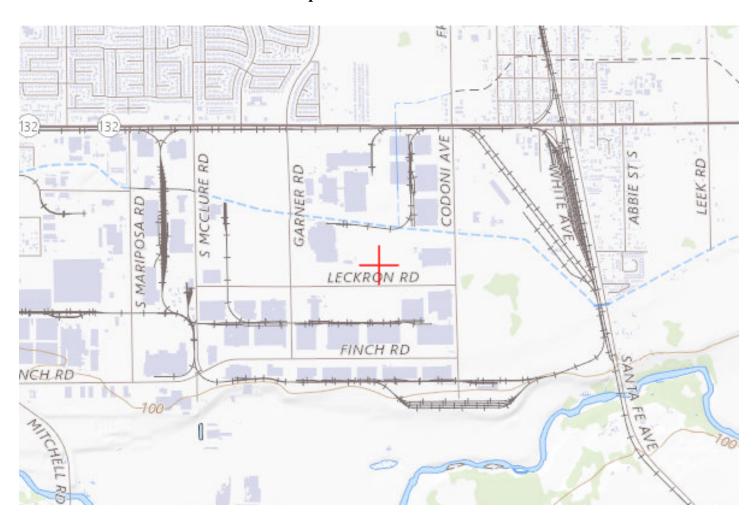
If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-3483-OE.

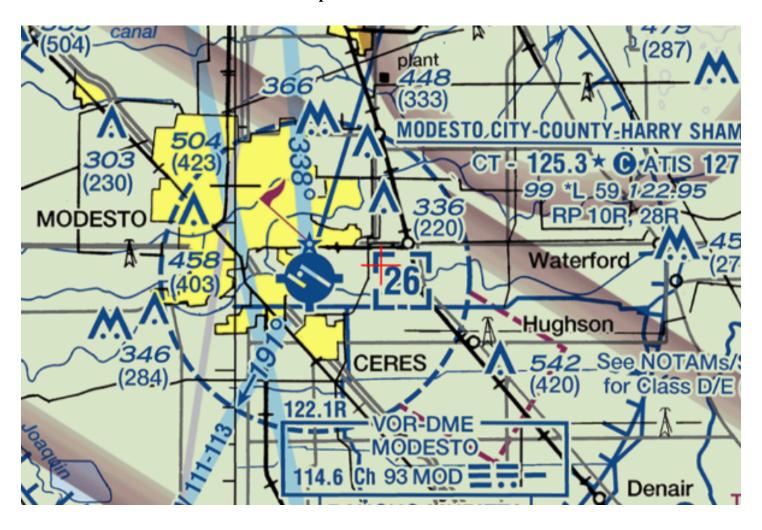
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Daniel Shoemaker
Specialist

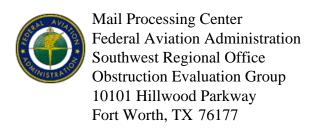
Attachment(s) Map(s)

(DNE)

TOPO Map for ASN 2022-AWP-3483-OE







Elisabeth Gleeson Frito-Lay 600 Garner Road Modesto, CA 95357

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Building #4 ASRS BLDG SW CORNER

Location: Modesto, CA

Latitude: 37-37-55.46N NAD 83

Longitude: 120-55-08.30W

Heights: 111 feet site elevation (SE)

48 feet above ground level (AGL) 159 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

	At least 10 days prior to start of construction (7460-2, Part 1)
X_	Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-3482-OE.

(DNE)

Signature Control No: 512919438-519348861
Daniel Shoemaker
Specialist

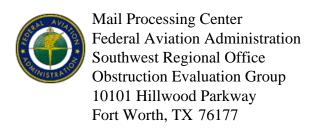
Attachment(s) Map(s)

Page 2 of 4

TOPO Map for ASN 2022-AWP-3482-OE







Elisabeth Gleeson Frito-Lay 600 Garner Road Modesto, CA 95357

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Building #3 ASRS BLDG NW CORNERN037° 37' 56"

Location: Modesto, CA

Latitude: 37-37-56.24N NAD 83

Longitude: 120-55-08.29W

Heights: 111 feet site elevation (SE)

48 feet above ground level (AGL) 159 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

	At least 10 days prior to start of construction (7460-2, Part 1)	
X	Within 5 days after the construction reaches its greatest height (7460-2, Part 2	!)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-3481-OE.

Signature Control No: 512919437-519348852

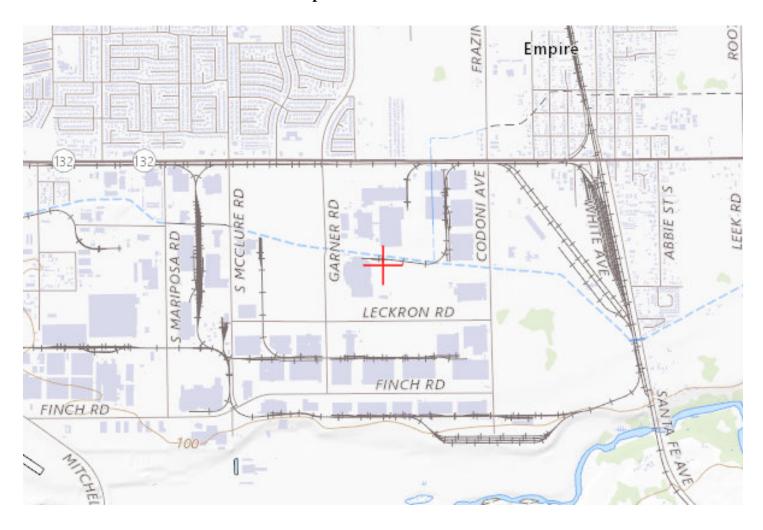
Daniel Shoemaker

(DNE)

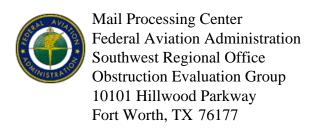
Specialist

Attachment(s) Map(s)

TOPO Map for ASN 2022-AWP-3481-OE







Issued Date: 03/22/2022

Elisabeth Gleeson Frito-Lay 600 Garner Road Modesto, CA 95357

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Building #2 ASRS BLDG SE CORNER

Location: Modesto, CA

Latitude: 37-37-54.89N NAD 83

Longitude: 120-55-03.00W

Heights: 111 feet site elevation (SE)

97 feet above ground level (AGL) 208 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

	At least 10 days prior to start of construction (7460-2, Part 1)
X_	Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/22/2023 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within

6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

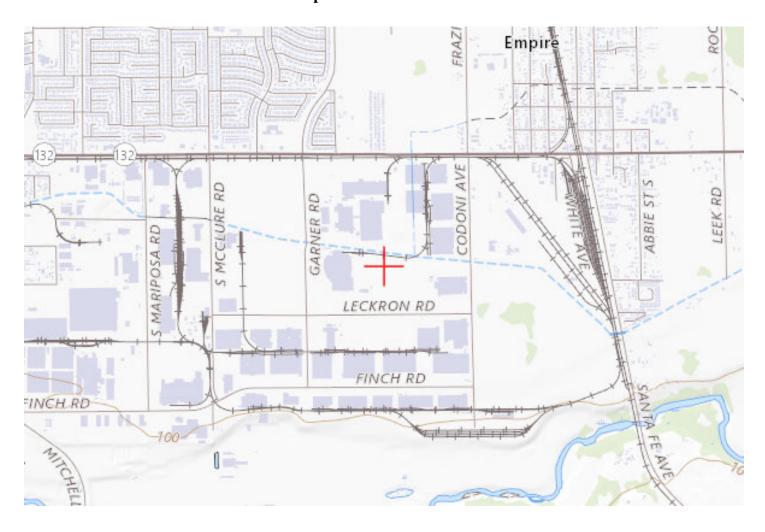
If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-3480-OE.

(DNE)

Signature Control No: 512919436-519348856
Daniel Shoemaker
Specialist

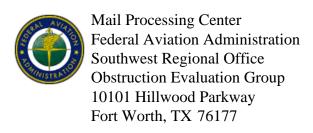
Attachment(s) Map(s)

TOPO Map for ASN 2022-AWP-3480-OE



Sectional Map for ASN 2022-AWP-3480-OE





Issued Date: 03/22/2022

Elisabeth Gleeson Frito-Lay 600 Garner Road Modesto, CA 95357

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Building #1 ASRS BLDG NE CORNER

Location: Modesto, CA

Latitude: 37-37-55.45N NAD 83

Longitude: 120-55-02.99W

Heights: 111 feet site elevation (SE)

97 feet above ground level (AGL) 208 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

	At least 10 days prior to start of construction (7460-2, Part 1)
X_	Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/22/2023 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within

6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-3479-OE.

Signature Control No: 512919435-519348854

Daniel Shoemaker

(DNE)

Attachment(s) Map(s)

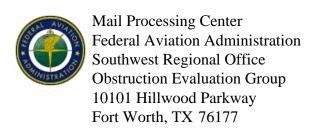
Specialist

TOPO Map for ASN 2022-AWP-3479-OE



Sectional Map for ASN 2022-AWP-3479-OE





Issued Date: 03/22/2022

Elisabeth Gleeson Frito-Lay 600 Garner Road Modesto, CA 95357

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Building #11 70' SILO

Location: Modesto, CA

Latitude: 37-37-52.92N NAD 83

Longitude: 120-54-59.70W

Heights: 111 feet site elevation (SE)

70 feet above ground level (AGL) 181 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

	At least 10 days prior to start of construction (7460-2, Part 1)
X_	Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

The structure considered under this study lies in proximity to an airport and occupants may be subjected to noise from aircraft operating to and from the airport.

This determination expires on 09/22/2023 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within

6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

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This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (206) 231-2989, or dan.shoemaker@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-AWP-3489-OE.

(DNE)

Signature Control No: 512919445-519348859
Daniel Shoemaker
Specialist

Attachment(s) Map(s)

TOPO Map for ASN 2022-AWP-3489-OE

